

OWNER'S/OPERATOR'S MANUAL

metal
MOTORSPORTS

Always wear a helmet it could save your life!

Never allow any child under the age of 16 to operate this Mini Bike without continual adult supervision.



Provincial / Municipal governments have different regulations pertaining to owning and operating an off-road vehicle, learn the regulations in your area.

READ THIS MANUAL CAREFULLY!

31610

To the Owner

Congratulations on your purchase of a Metal Motorsports Off-Road Mini Bike. This Owner's/Operator's manual will provide you information regarding safe operation, operational instructions, maintenance and care. Fully understanding this manual and following all of the instructions herein will provide the knowledge needed to have safe and enjoyable operation.

For questions regarding operation, maintenance and parts for this Off-Road mini bike, please call Metal Motorsports toll free 888-748-5884.

Safety - Notice to parents

Children differ in skills, physical abilities, and judgement. Some children may not be able to operate this mini bike safely. Parents should supervise their child's use of the mini bike at all times. Parents should permit continued use only if they determine that the child has the ability to operate the mini bike safely.

THIS MINI BIKE IS NOT A TOY AND COULD BE HAZARDOUS TO OPERATE.

Reading the Owner's/ Operator's Manual

It is important this manual is read from cover to cover carefully by the owner and all operators. Parents should review the manual carefully with their children. Never allow anyone to operate the mini bike without first reading and understanding the Owner's/Operator's manual.

This Owner's/ Operator's manual should be a permanent part of the mini bike and should remain with the vehicle at all times. The manual should also remain with the vehicle if sold.

To emphasize special important information in the manual, please note the following :



This is the alert symbol. The symbol means **ATTENTION!**, **BECOME ALERT!**, **YOUR SAFETY IS INVOLVED.**

To emphasize important safety information, the word **WARNING**, with the alert symbol, has special meaning.:



Indicates a potential hazard that could result in **SEVERE INJURY** or **DEATH** to the operator, bystander or person inspecting or repairing the unit.

To emphasize important information, the word **CAUTION** has special meaning.:

CAUTION:

Indicates special precautions that must be taken to avoid damage to the unit.

To emphasize important information, the word **NOTE** has special meaning.:

NOTE:

Indicates key information to make procedures easier or clearer to understand.

WARNING or **CAUTION**

The first part will identify a **POTENTIAL HAZARD**.

The second part will describe **WHAT COULD HAPPEN** if the warning or caution is ignored.

The third part will describe **HOW TO AVOID THE HAZARD**.

Metal Motorsports is concerned about the environment and believes in conserving and protecting all natural resources. For this reason, owners should recycle, trade in, or dispose as appropriate, oil and tires.

This manual is based on the latest product information available at the time of publication. Metal Motorsports has a policy of continually improving its products. Due to improvements, or other changes, there may be some discrepancies. We reserve the right to make product changes at any time, without notice and without incurring any obligation to make the same or similar changes to vehicles previously built or sold.

⚠ WARNING

The engine exhaust from this mini bike contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

California proposition 65

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METAL MOTORSPORTS LIMITED WARRANTY

This Warranty is NOT the Emissions Control Warranty

Please note this is a general Limited Warranty for this product. It IS NOT an Emissions Control Warranty. Please see the Emissions Control Warranty in this manual for warranties covering Emission components. The Emissions Control Warranty can be found on page 31.

The Warranty

Metal Motorsports Inc offers the following warranty to the initial purchaser of this new Metal Motorsports product. The initial purchaser is defined as the first person to purchase a new Metal Motorsports product from an Authorized Retailer of Metal Motorsports products.

The limited warranty period for this product is 90 days from the date of purchase shown on the original sales receipt.

What is a Defect?

The Product is warranted to be free from manufacturing defects in material and workmanship for a period of 90 days from the date of purchase shown on the sales receipt. During this period of time Metal Motorsports will, at its option, either repair or replace any original Metal Motorsports part which is covered by this warranty and is proven to be defective in workmanship or material.

To qualify for this warranty the part:

- 1. Must have been purchase from Metal Motorsports or from an authorized Metal Motorsports Retailer.**
- 2. This warranty does not apply to any vehicle which is used in competition or used in a manner not consistent with the normal and proper intended use for the vehicle. This vehicle is not intended for rental or commercial use.**

Who Can Perform Repairs Under this Warranty?

Repairs under this warranty should be performed by an authorized Metal Motorsports retailer or comparable servicing dealer.

How to get service under this warranty

To get warranty service call Metal Motorsports at 888-748-5884 for the location of your local servicing retailer / dealer. Please do not return the product to the retailer where the product was purchased unless instructed to do so by Metal Motorsports. The retailer of this product does not make any warranty of its own and has no authority to implement this warranty on behalf of Metal Motorsports without the approval of Metal Motorsports. A COPY OF YOUR SALES RECEIPT IS REQUIRED FOR WARRANTY SERVICE.

What this Warranty Does Not Cover

This warranty does not cover the following

1. Damage due to lack or improper maintenance as described in this manual.
2. Damage which is caused by normal use and not caused by a defect in materials or workmanship.
3. Use of the product which is not consistent with the intended use as described in the operating instructions.
4. Any expendable maintenance item which need replacement or service as part of normal maintenance, unless such items have defects in material or workmanship which cause failure or premature wear.
5. Any product which has been altered or modified in a manner not consistent with the original design of the product or in a manner not approved by Metal Motorsports.
6. Tires
7. Damage or failures due to abuse, neglect, or misuse of the product.

Limitations of this Warranty

This warranty does not cover and Metal Motorsports disclaims any responsibility for:

1. Loss of time or loss of use of the product.
2. Transportation costs to and from the authorized center.
3. Other loss or damage to other equipment or personal items.

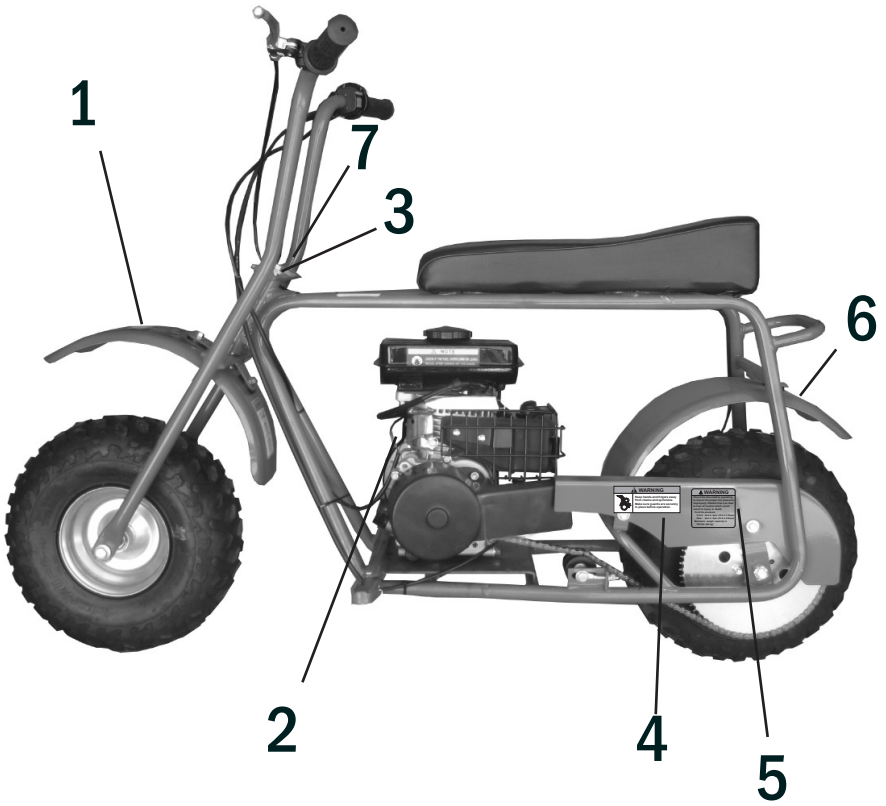
Length of Implied Warranties

Any implied warranties are limited to the duration set forth in this warranty. Metal Motorsports does not make any claim as to the merchantability or fitness for a particular purpose which would extend longer than the duration of this written warranty.

Check your State Laws as some State Laws do not allow limitations as to the duration of an implied warranty. Some States may also not allow limitation or exclusions based on incidental or consequential damages.

IMPORTANT LABELS

LOCATION



Warning Labels

1

 WARNING
<p>This Mini Bike can cause serious injury or death if the warnings and instructions in the owner's manual and on warning labels are not followed.</p> <p>Never Operate this Mini Bike:</p> <ul style="list-style-type: none">• at speeds too fast for your skills or the conditions.• on public roads, a collision can occur with another vehicle.• carrying a passenger, a passenger can affect balance and control.• while under the influence of alcohol or drugs• with long hair or loose clothing unconstrained. Long hair and loose clothing can get caught in moving parts of the mini bike and cause serious injury or death.• operate this mini bike in an unsafe manner by attempting stunts, jumps or wheelies. This could lead to severe injury or death. <p>Always:</p> <ul style="list-style-type: none">• wear a DOT certified helmet, eye protection, gloves, over the ankle boots, long sleeve shirt and long pants.• avoid paved surfaces, paved surfaces can adversely affect handling and control.• supervise children under 16.• keep hands and feet away from all moving parts.• Check the throttle to ensure it works properly and "snaps back" prior to starting the mini bike.• be seated before attempting to start the mini bike.

2

 WARNING	
	<p>HOT SURFACES Allow to cool before refueling</p>


3

 WARNING
<p>THIS VEHICLE IS AN OFF ROAD VEHICLE AND IS NOT INTENDED FOR USE ON PUBLIC ROADS/HIGHWAYS</p>

4

 WARNING	
	<p>Keep hands and fingers away from chains and sprockets. Make sure guards are securely in place before operation.</p>


5

 WARNING
<p>Check the tires before operating to insure the proper tire pressure. Improperly inflated tires can lead to loss of control which could result in injury or death.</p> <p>Cold tire pressure: Front: 5psi ± .5psi (34.5 ± 3.5kpa) Rear: 5psi ± .5psi (34.5 ± 3.5kpa)</p> <p>Maximum weight capacity is 150 lbs. (56 kg)</p>

6

<p>DO NOT RETURN TO STORE! FOR SERVICE AND REPAIR, PLEASE CALL METAL MOTORSPORTS TOLL FREE 877-428-8723</p>
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7

 WARNING
<p>Check the following before operating.</p> <ol style="list-style-type: none">1. Engine oil level.2. Lubricate and adjust drive chain if necessary.3. Clean and Lubricate clutch.4. Insure all Guards are in place.

SAFETY

Never allow anyone under the age of 16 to operate this mini bike without continual adult supervision. Some children may not have the coordination or ability to operate the mini bike safely. It is the parents responsibility to assess the child's abilities before allowing the child to continue to ride.

Always wear a certified DOT or motorcycle type helmet that fits properly, over the ankle boots, eye protection, gloves, long sleeve shirt and long pants while operating this mini bike.

Never allow a passenger on this mini bike. This mini bike is designed for one operator and no passengers.

Never operate this mini bike on paved surfaces and/or public roads. Pavement may cause the mini bike to become unstable. The tires on the mini bike are for off-road use only.

Always go slowly and pay attention to unfamiliar terrain. Be alert to changing terrain conditions when operating the Mini bike.

Never operate with long hair or loose clothing unconstrained. Long hair and loose clothing can get caught in moving parts of the mini bike .

Never take drugs or alcohol before or during operating this mini bike.

Never traverse, climb or go down a hill that is too steep. Avoid hills with loose or slippery terrain.

Never attempt wheelies, jumps or any other type of stunts on this mini bike.

Always follow the pre-ride inspection procedures and maintenance procedures located in this manual before use.

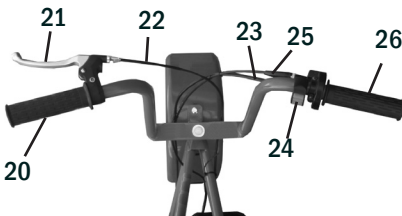
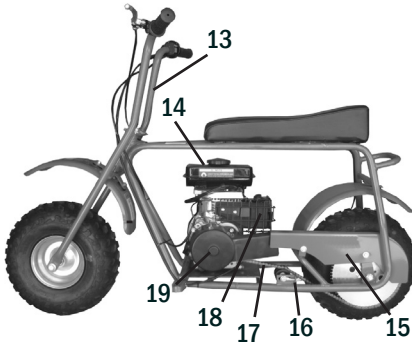
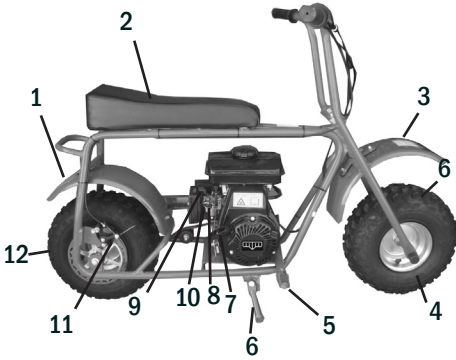
Always go slow on terrain that is not familiar, be alert, an obstacle could come up unexpectedly.

Always keep both hands on the handlebars and both feet on the foot pegs, doing so will help the operator be ready for unexpected situations.

Do not operate in fast flowing water. Water can affect the braking performance of the mini bike. Check braking performance after exposure to water, it may be necessary to apply the brakes allowing friction to dry out the pads.

Always Check the throttle to ensure it works properly and “snaps back” to idle prior to starting the mini bike.

DESCRIPTIONS AND PART LOCATIONS

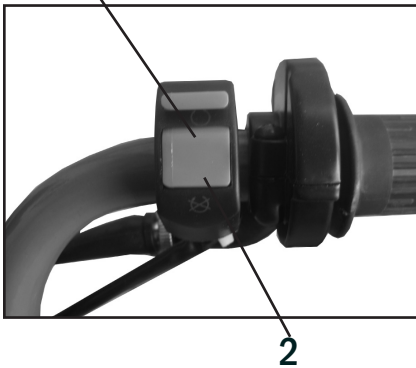




1. Rear Fender
2. Seat
3. Front Fender
4. Front Wheel
5. Foot Pegs
6. Kick Stand
7. Starter Recoil
8. Fuel Valve
9. Choke Lever
10. Carburetor
11. Rear brake adjustment
12. Rear Wheel
13. Handlebars
14. Fuel Tank and Cap
15. Chain Guard
16. Chain Adjustment Nut
17. Chain
18. Muffler
19. Centrifugal Clutch Cover
20. Left Hand Grip
21. Rear Brake Lever
22. Brake Cable
23. ON/OFF Switch Wire
24. ON/OFF Switch
25. Throttle cable
26. Throttle grip

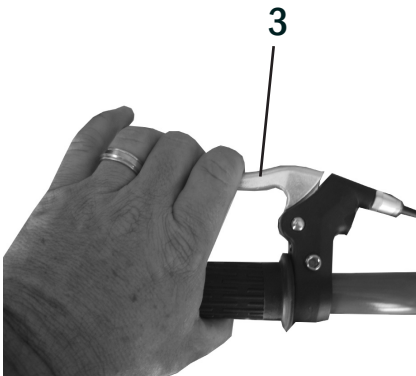
DESCRIPTION AND PART FUNCTIONS



Right Throttle Grip (1): The engine speed is regulated by the position of the right throttle grip. Throttle is increased by turning the throttle grip toward the operator. Engine speed is decreased by turning the throttle grip away from the operator.

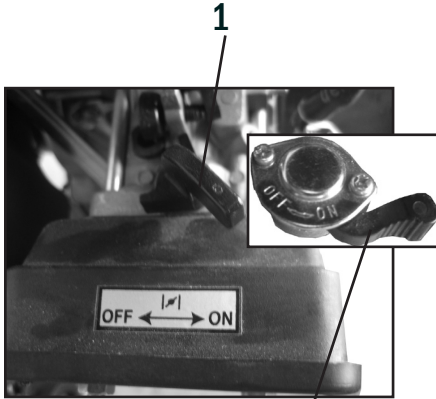


Engine Stop Switch (2): Mini Bike engine can start when the Engine stop switch is placed in the  (on) position. Engine will shut off and the engine will not start when the switch is placed in the  (off) position.



Left hand brake lever (3): The rear brake is applied when the left hand brake lever is pulled toward the hand grip.

DESCRIPTION AND PART FUNCTIONS



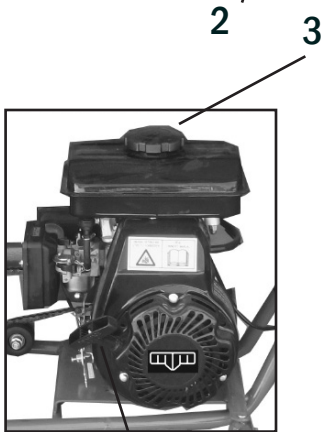
Choke operation

Choke Lever (1): If the engine is cold, the choke can help start the engine by placing the choke lever to the "ON" (right) position. Once engine has warmed up, place choke lever toward the "OFF" (left) position.

NOTE: ENGINE USUALLY RUNS BEST WITH CHOKE LEVER BETWEEN THE ON AND OFF POSITION.

Fuel Valve operation

Fuel Valve (2): To start the engine and run the mini bike, the fuel valve needs to be placed in the "ON" (right) position. This allows fuel to flow to the carburetor. When finished riding, and while transporting, place fuel valve in the "OFF" (left) position.



Fuel Cap

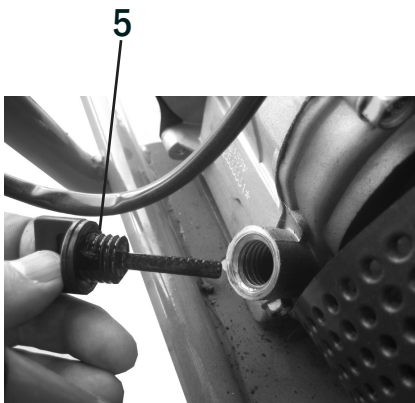
Fuel Tank Cap

To open the fuel tank cap (3), Turn the cap counter clockwise to remove. To re-install the cap, turn the cap clockwise until snug.

Starter Recoil Cord

Starter Recoil Cord (4)

To start the engine, place the on/off switch locate on the handlebars to the "ON" position and pull the Starter Recoil Cord



Oil Fill plug

Oil Fill PLug (5)

To check or add oil, open the oil fill plug/ dipstick by turning counter clockwise. To tighten, turn clockwise.

FUEL AND OIL

FUEL

Never use leaded gasoline in this product. It could affect the engine's emissions and damage the engine.

Mini Bike requires clean unleaded regular gasoline with a minimum octane rating of 87 or higher.

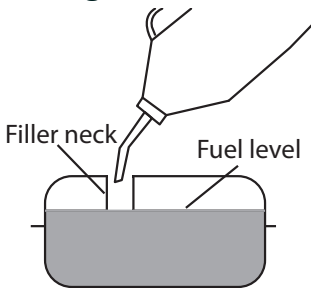
Gasoline/ Ethanol blends

A blend of unleaded gasoline with Ethanol, also known as GASOHOL, at or below 10% (E10) can be used in your Mini Bike. Ethanol greater than 10% can damage your engine and will void your warranty.

Gasoline/Methanol Blends

A blend of gasoline with Methanol of 5% or less can be used in your Mini Bike. Do not use gasoline, under any circumstances, containing more than 5% Methanol, doing so will damage your engine and will void the warranty.

Fuel Filling



⚠ WARNING

Overfilling the fuel tank can cause the fuel to expand which can cause overflow due to the heat from the engine or sun. Spilled fuel can catch fire.

Never fill the fuel tank above the bottom of the filler neck.

⚠ WARNING

Fuel and fuel vapor are highly flammable and toxic. You can be burned or poisoned while refueling.

Before refueling make sure to follow the procedures listed:

- 1 Shut off engine, Make sure there are no flames, sparks or heat sources close by.
- 2 Refuel only outdoors in a well ventilated area.
- 3 Do not smoke while refueling.
- 4 Wipe up any spills immediately.
- 5 Avoid breathing any fuel vapors.
- 6 Keep children and pets away.

ENGINE OIL

The recommended oil for this Mini Bike is SAE15W-40 motor oil, if this oil is not available, any of the oils on the chart below will work. Note the temperature requirements for each of the oils.

Quantity of oil - .40qt. (.45L).

TEMP.	C									
	-30	-20	-10	0	10	20	30	40		
ENGINE OIL									20w-50	→
									15w-40	→
									10w-40	→
									10w-30	→

PRE-RIDE INSPECTION

Inspecting and checking the condition of the Mini Bike before each ride is important. Following the pre-ride check list will help insure the you do not have mechanical problems which could result in injury or becoming stranded. Make sure the Mini Bike is in good operating condition before each ride.

WARNING

Failing to inspect and maintain your Mini Bike could be hazardous.

Not following the pre-ride inspection procedures could result in loosing control of the Mini Bike resulting in an accident or damage to the Mini Bike

Always perform a Pre-ride inspection before each ride.

WARNING

Performing maintenance and checks while the engine is running could be hazardous.

You could be severely injured by moving parts or hot surfaces.

Never perform maintenance or check procedures while the engine is running with the exception of checking the engine stop switch or throttle.

WHAT TO CHECK	CHECK FOR
Steering	<ul style="list-style-type: none"> • Smoothness • No restriction of movement
Brakes	<ul style="list-style-type: none"> • Brake pad wear. • Proper brake lever play
Tires	<ul style="list-style-type: none"> • Proper tire pressure • Proper tread depth • Rubber has no cracks
Fuel Tank	<ul style="list-style-type: none"> • Enough fuel for the ride • Fuel cap secure • Hoses have no signs of cracks or leaks
Throttle grip	<ul style="list-style-type: none"> • Throttle grip snaps back to idle when released • Operates freely • Has correct free play
Engine Stop Switch	<ul style="list-style-type: none"> • Switch shuts off engine when activated.
Engine Oil	<ul style="list-style-type: none"> • Correct oil level
Drive Chain	<ul style="list-style-type: none"> • Proper tension • Lubricated • No excessive wear or damage
General Condition	<ul style="list-style-type: none"> • All nuts and bolts tight • No rattles from engine or frame while running

RIDING THE MINI BIKE

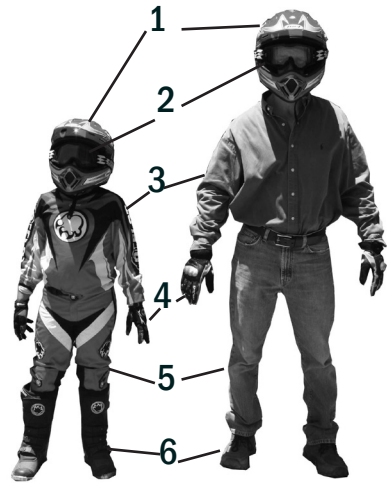
HELMET, EYE PROTECTION, PROTECTIVE CLOTHING

Always wear a DOT or SNELL certified motorcycle helmet (1). A helmet helps protect against serious head injuries in the event of an accident. A helmet is the most important safety gear item you can wear. Consult with a motorcycle dealer for the correct size and type of motorcycle helmet that is right for you.

Always wear eye protection when riding a Mini Bike such as a face shield or goggles (2). While riding a Mini Bike you can be hit in the eyes by any of the following: dust, branches, rocks, debris from other riders, bugs, etc. Good eye protection as well as a helmet and protective riding gear should be mandatory when riding a Mini Bike.

Wear protective clothing: Long sleeve shirt (3), Gloves (4), Long pants (5), over the ankle boots (6).

Riding a Mini Bike exposes the rider to many hazards, wearing protective clothing can help protect the rider from injury.



⚠ WARNING

Riding the Mini Bike without a helmet, eye protection, and protective clothing can be hazardous

Riding a Mini Bike without a helmet increases the chance of severe head injury or death in the event of an accident.

Riding a Mini Bike without eye protection such as a face shield or goggles could result in severe injury in the event of an accident.

Riding a Mini Bike without protective clothing; over the ankle boots, long pants, gloves, long sleeve shirt could result in severe injury in the event of an accident.

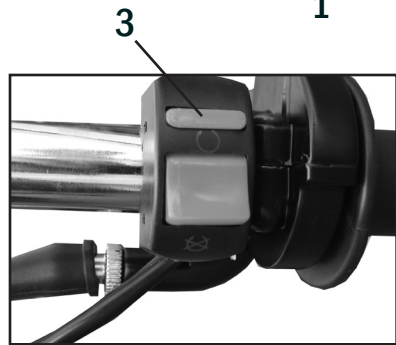
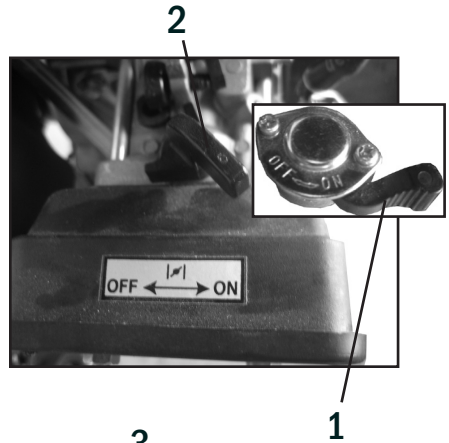
Always wear a Helmet, eye protection, long pants, long sleeve shirt, over the ankle boots and gloves when riding the Mini Bike.

RIDING THE MINI BIKE

STARTING ENGINE

To start the engine

1. Place the fuel valve (1) in the "ON" (right) position
 2. If engine is cold, place the choke lever (2) in the "ON" (right) position.
 3. Place the ON/OFF switch (3), located on the handlebars, in the ON position.
 4. Pull the starter recoil cord (4) to start the engine.
 5. Once engine has warmed up for a few minutes, place the choke lever (2) toward the "OFF" (left) position.
- Note: The engine usually runs best with the choke lever (2) between the ON and OFF position.

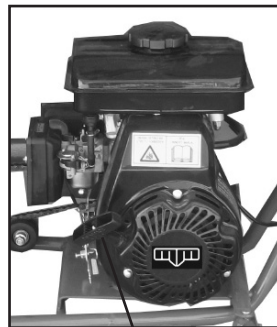


⚠ WARNING

Starting or running the Mini Bike in an enclosed area such as a garage or shed where there is no ventilation is hazardous

Inhaling exhaust fumes from the Mini Bike can cause severe injury or death

Never start or run the Mini Bike in an inclosed environment where there is no ventilation. Always start and run outdoors.



RIDING THE MINI BIKE

STARTING OFF

1. Start and warm up the engine according to the instructions in this manual.
2. Place the side kick stand in the up position.
2. Apply the throttle gradually to start riding. Practice riding mini bike on a flat dirt surface that has plenty of room for turning.

WARNING

Turning the throttle grip to full throttle when starting off could be hazardous.

The Mini Bike could lurch forward causing the front wheels to leave the ground causing loss of control.

Always open the throttle gradually when starting off from a stopped position.

WARNING

Removing hands from the handlebars and/or feet from the footrest while operating the Mini Bike could be hazardous.

Removing both or one hand from the handlebars and/or feet from the footrests could result in loss of control of the Mini Bike resulting in severe injury or death.

Always ride with both hands on the handlebars and both feet on the footrests while operating the Mini Bike.

WARNING

Operating this Mini Bike at excessive speeds could be hazardous.

Riding at excessive speeds increases your chances of losing control of the Mini Bike, which could result in severe injury or death.

Always go at a speed that is proper for the terrain, visibility, operating conditions, operator skill, and operator experience. Always know the terrain before riding.

WARNING

Braking while turning could be hazardous.

Braking while turning could cause the Mini Bike to slide out of control which could result in severe injury or death.

Before making a turn, slow down and release the brake.

RIDING THE MINI BIKE

Load Guidelines

Load guidelines including accessories:

Never exceed the maximum load capability of the Mini Bike. This includes the weight of the rider and any cargo. This Mini Bike is rated at 150 lbs. (56kg).

Do not add any accessory or cargo to the handlebars that could impede vision or make the Mini Bike harder to steer.

Make sure accessories do not get in the way of any controls of the Mini Bike.

After Market parts

After market parts and accessories may be available from other manufactures. Metal Motorsports cannot confirm the quality, safety or suitability of accessories available. When purchasing an accessory, use caution, the handling of the Mini Bike could become affected. Some accessories may make the Mini Bike unsafe to ride. If you have a question about a modification or accessory, contact your dealer or call Metal Motorsports.

WARNING

Riding this Mini Bike with modifications or adding accessories could be hazardous.

Modifications to the Mini Bike, including adding accessories, could adversely affect the handling of the Mini Bike causing an accident which could result in severe injury or death.

Never Modify this Mini Bike in anyway, including adding accessories, unless the modification is a genuine certified modification or accessory approved by the manufacture.

Never modify the Mini Bike with improper installation. Make sure to follow all instructions recommended in the certified modification. Use only genuine parts.

MAINTENANCE

For maintenance, your mini bike may be maintained by an authorized Metal Motorsports service dealer or a repair shop of your choosing.

Following the proper maintenance procedures and time table for maintenance listed in this manual is important for the safety of the rider and the life span of the Mini Bike. When riding in harsh conditions, such as water, mud and dust, the maintenance procedures should be performed more often.

WARNING

Failing to perform the recommended maintenance on this Mini Bike could be hazardous.

Failing to perform proper maintenance on this Mini Bike could result in an accident

Always perform the recommended maintenance for the Mini Bike as listed in this manual.

WARNING

Performing maintenance and inspection while the engine is running could be hazardous.

Performing maintenance and inspections while the engine is running could result in getting body parts or clothing caught in moving parts, or could result in touching hot items which could result in severe injury.

Shut off engine when performing maintenance and inspection checks, with the exception checking the engine stop switch and throttle.

CAUTION

Failing to perform recommended maintenance on this Mini Bike could damage the Mini Bike engine and components

Always perform the recommended maintenance on this Mini Bike as listed in this manual

Maintenance will need to be performed more often if ridden in wet, muddy or dusty conditions.

CAUTION

Failing to use compatible parts with the original replacement parts could damage Mini Bike

Using parts that are of low quality could result in Mini Bike breakdowns and reduce the useful life of the Mini Bike.

Never use parts that are not compatible with the original parts..

MAINTENANCE CHART

	Each Use	1st Month /20 hrs	Every 3 Months/ 50 hrs.	Every 6 Mo/ 100 Hrs	Every Year/ 300 hrs.
Engine oil - check	X				
*Engine oil - change		X		X	
Air filter - check	X				
*Air filter - clean			X		
*Air filter - change					X
*Carburetor Sediment cup clean			X		
*Spark plug clean and adjust				X	
Spark Plug Replace					X
Idle speed check and adjust					X
**Valve clearance check , adjust					X
*Fuel tank and Filter clean					X
Fuel tube check					X
Centrifugal clutch, clean and lube	Every 5 hours of use				
All nuts and bolts check for tightness	X				
Chain tension check	X				
Brakes - Check	X				
Throttle - Check	X				

* Can be performed by the owner if owner has the tools and knowlege to do so. Or can be performed by a service center.

** Recommended to be performed by an authorized service center or service center of the owner's chosing.

MAINTENANCE

Air Filter

The air cleaner element needs to be cleaned or replaced periodically (see chart for cleaning/replacement intervals). The air filter element will need to be cleaned more often if Mini Bike is ridden in muddy, wet, or dusty conditions. A clean air filter will help the Mini Bike run at peak performance allowing better gas mileage, more power and will protect the engine from the damaging effects of dirt entering the engine.

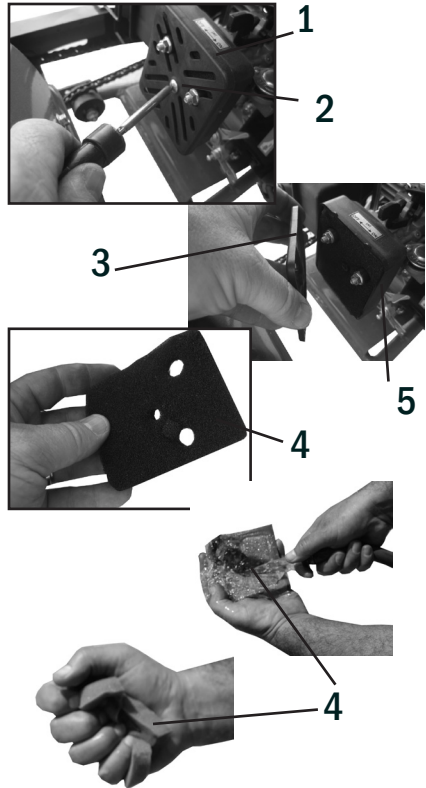
Air filter removal, inspection and cleaning instructions

1. Locate the air filter assembly (1)
2. Remove the Air filter assembly cover by removing the phillips head screw (2).
3. Remove the air filter cover (3)
3. Remove the foam element (4) from the filter housing (5) and clean foam element with mild soap and water. Rinse and squeeze out excess water and allow to dry .
Note: If foam element (4) is damaged, replace.
5. Once cleaned or replaced, re-install.

CAUTION

Clean air filter frequently if Mini Bike is driven in wet, muddy or dusty conditions.

Driving in the above conditions without cleaning frequently can plug up the air filter which can cause poor gas mileage, low power and cause damage to the engine.



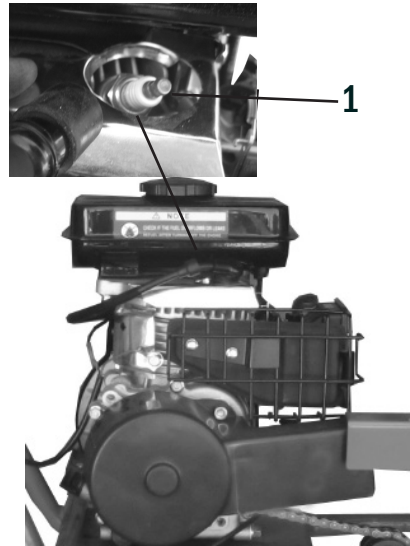
MAINTENANCE

Spark Plug

This Mini Bike comes equipped with a NGK-BPMR6A or a Torch-E5TC spark plug.

To inspect the spark plug, remove spark plug cap (1) then remove the spark plug from the engine with the spark plug tool provided.

Inspect the plug for carbon deposits and clean if necessary. If plug shows excessive carbon, replace the plug.



CAUTION

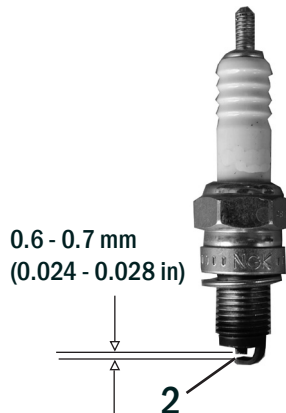
Dirt can damage the engine if enters the spark plug hole.

Make sure the spark plug hole is covered after removing plug.

Use a thickness feeler to inspect the spark plug gap (2). The spark plug gap should be 0.6 - 0.7mm (0.024 - 0.028 in.)

Re-install the inspected plug or new plug until finger tight. Finish tightening plug with a wrench. If the plug is a new plug, tighten approximately 1/2 turn more with the wrench. If plug is an old plug, tighten approximately 1/8 turn more with a wrench.

Torch E5TC or NGK BPMR6A



MAINTENANCE

Engine Oil

The proper amount and grade of engine oil will have a great impact on the life of the engine. Checking the oil daily and changing the oil as listed in the maintenance schedule is the most important maintenance procedure for the engine.

Checking the engine oil

1. Make sure the Mini Bike is on level ground.
2. Check engine oil level by removing the oil fill plug/dipstick (1) located on bottom front left front side of the engine.
3. If engine oil is low, add oil until oil is at edge of fill hole (2). Use the correct grade of oil as listed in this manual. Do not over or under fill engine with oil, this could damage the engine.

Changing the engine oil

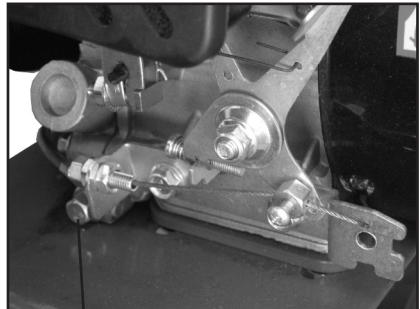
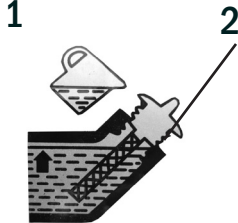
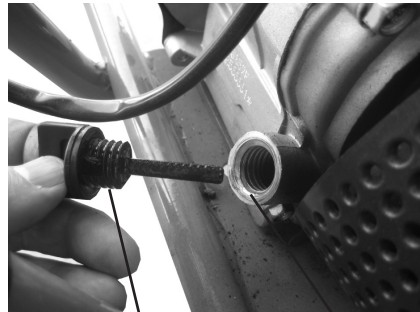
1. Make sure engine is warm before attempting to drain the oil. A warm engine will help the oil drain quicker.
2. Remove the oil fill plug (1)
3. Remove the drain bolt (3) located on the bottom of the engine.
4. Allow the oil to drain in an appropriate container. Note: Dispose of oil at an oil recycle center.
5. Install the drain plug and fill with the appropriate type of oil as listed in this manual. This mini bike takes .4qt. (.45L) of engine oil.
6. Re- install fill cap, Start engine and allow to run for a few minutes, Re-check oil level and fill accordingly.

⚠ WARNING

New and used oil can be hazardous

Children and pets can be harmed by swallowing new or used oil. Continuous contact with used engine oil has been found to cause skin cancer in laboratory animals

Always keep new or used oil away from children and pets.



MAINTENANCE

Idle speed adjustment

The idle speed should be set at 1500 ± 150 RPMs

To adjust the idle speed:

1. locate the idle adjustment screw (1) located on the carburetor.
2. Allow the engine to warm up approximately 10 minutes
3. With the engine running, turn the idle adjustment screw in or out at small increments until the correct idle is achieved.

Note: A service center can perform this adjustment . A diagnostic tachometer is required for this adjustment.



1

Throttle Cable adjustment

It is important that the throttle grip have a certain amount of free play so the throttle does not rise when the handlebars are turned from left to right.

The hand grip throttle free play (2) should be .078 - .24 in (2-6 mm)

To adjust freeplay

1. Loosen jam nut (3)
2. Turn adjusting nut (4) to proper setting
3. Once throttle grip is at the proper freeplay, re-tighten the jam nut (3).

NOTE: After any adjustment, make sure throttle snaps back to idle when released.



Fuel Hose Inspection

Inspect the fuel hose for any cracks or leaks and make sure all clamps are in place. Replace the fuel hose if any defects are found.

WARNING

Inadequate throttle play can be hazardous

The engine speed could rise when the handlebars are turned if there is not enough throttle play. This could result in loss of control.

Always check throttle play before each ride. Turn handlebars from side to side making sure throttle does not increase when doing so.

MAINTENANCE

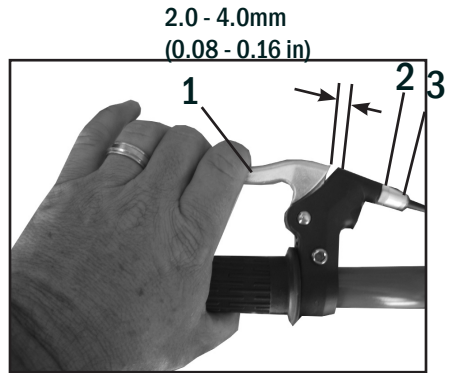
Brakes

Brake Lever Adjustment

The front left brake lever (1) should have 2.0 - 4.0mm (0.08 - 0.16) of free play.

To adjust brake lever free play:

1. Loosen the Jam nut (2) on the brake cable.
2. Turn the adjuster nut (3) until the correct amount of free-play is achieved.
3. Re tighten the jam nut (2)

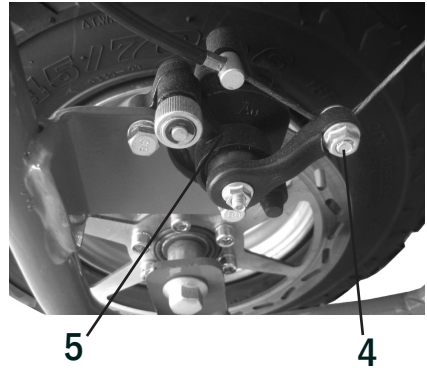


Brake Adjustment

The brake adjustment nut (4) is located on the rear brake pad assembly arm (5) located on the rear wheel

To adjust brakes, turn the adjusting nut (4) counter clockwise to loosen cable. Pull cable through until correct tension is achieved, re-tighten adjusting nut (4). Check brakes by applying brake lever.;

To inspect brakes for wear, check pads. If brakes are worn, take the mini bike to a service center for brake pad inspection and/or replacement.



Valve Clearance:

Adjusting the valves should be done by an authorized service center. Proper valve gap will help Mini Bike run at peak performance. Follow the valve gap adjustment intervals listed in the maintenance chart.

Proper Valve Clearance

Intake: 0.1 mm
Exhaust: 0.2 mm

MAINTENANCE

Chain

Chain and Sprocket Inspection

Inspect the drive chain for wear, rust, bound links, proper lubrication and proper tension.

If the drive chain has a problem correct or replace. Contact a service center for chain replacement.

A worn drive chain could also mean the sprockets may be worn.

Look for the following on the sprockets (1):

Worn teeth

broken or damaged teeth

Loose sprocket mounting nuts.

If the sprocket shows signs of wear, contact a service center for replacement.

Chain tension

Check the tension of the chain , The chain (1) tension should be 1/2 - 3/4 in. (15-20mm)

Chain tension (slack) adjustment

1. Loosen bolt (2) on the chain tensioner (3).

2. Adjust chain tension by turning the tensioner nut (4). Turning nut clockwise will tighten chain.

3. Once the chain is at the correct tension re-tighten bolt (2).

4. Re-check chain tension.

5. If chain tensioner no longer will tighten chain, loosen bolts (5) on bottom of engine mount plate and slide engine forward.

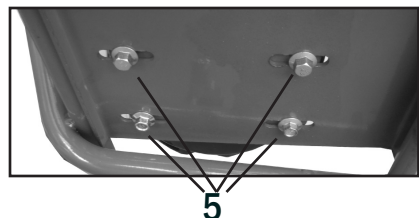
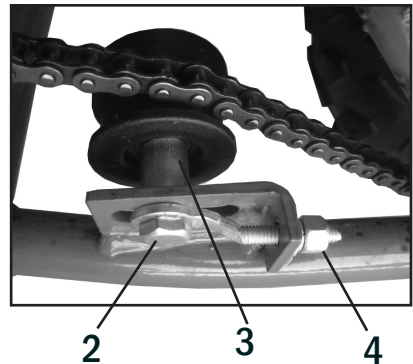
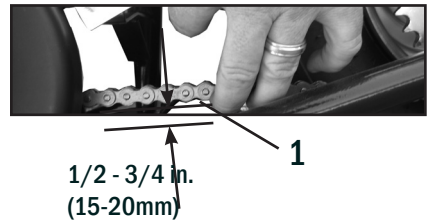
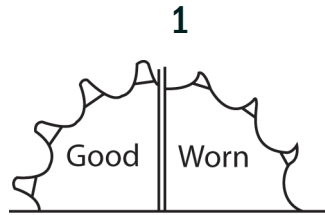
6. Once the chain is at the correct tension re-tighten bolts (5).

Chain lubrication

Lubricating the chain before each ride will help to ensure maximum life of the chain and sprockets.

Instructions for cleaning and chain lubrication:

1. Clean chain with water and allow to dry.
2. Lubricate chain with chain lube.



MAINTENANCE

Centrifugal Clutch Cleaning and lubrication

To help ensure the maximum life out of the Centrifugal clutch. It is important to clean and lubricate the clutch after every 5 hours of operation. To Clean and lubricate, follow the instructions below

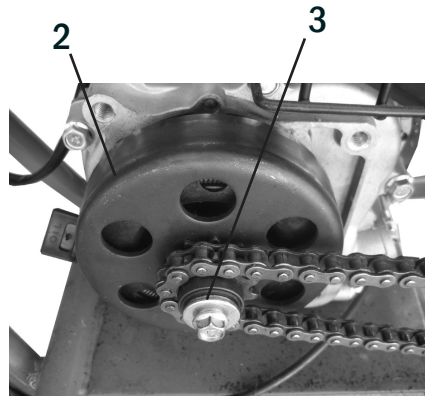
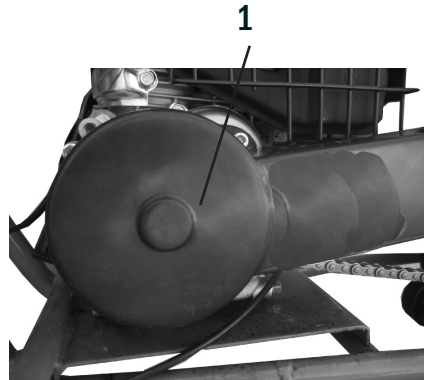
1. Make sure engine is not running and that the engine and clutch has had time to cool.
2. Remove clutch cover (1).
3. Wipe off Centrifugal clutch with a clean rag and blow compressed air through the large holes in clutch to remove any residue..
4. Lubricate Centrifugal clutch (2) using the same type of motor oil that is used in the engine. Place a few drops of motor oil on the drive shaft (3) where the clutch is attached. Do not oil any other portion of the clutch. **DO NOT PLACE ANY OIL IN THE LARGE HOLES IN THE CLUTCH. THE HOLES ARE FOR AIR CIRCULATION ONLY. DO NOT OIL THE INSIDE OF THE CLUTCH.**
5. RE-INSTALL THE CLUTCH COVER BEFORE STARTING OR OPERATING THE MINI BIKE.

WARNING

Operating the mini bike without the clutch cover in place could be Hazardous.

Operating the mini bike without the clutch cover could result in getting body parts or loose clothing caught in moving parts which could result in severe injury.

Never Start or operate the mini bike without the clutch cover in place.



WARNING

Performing maintenance and inspection on the centrifugal clutch while the engine is running could be hazardous.

Performing maintenance and inspections on the centrifugal clutch while the engine is running could result in getting body parts or clothing caught in moving parts, or could result in touching hot items which could result in severe injury.

Shut off engine and allow to cool before performing maintenance and inspection on the centrifugal clutch.

MAINTENANCE

Tires

Inspect tires before each ride, this should include the following:

1. Inspect for cracks or leaks
2. Inspect tread depth. If tread depth is below 4mm (.16 in.) replace the tire.
3. Check tire pressure. Incorrect tire pressure can affect the handling, rider comfort, steering, tire life and traction. Always check the tire pressure before each ride.

Tire pressure

Front tires: 5psi (34.5 kpa)

Rear tires: 5psi (34.5kpa)

Tire size:

Front tires: 145/70-6

Rear Tires: 145/70-6

Replacing tires

Always replace tires with type and size listed in this manual.

Always use the correct tools when replacing tires. The bead and sometimes the rim can be damaged by using the wrong type of tools. It is usually best to have tires replaced by an authorized service center. Service centers have the correct equipment and expertise to change tires without causing damage.

Punctures to tires can usually be repaired by using plug type patches. Plug type patches cannot repair tires that have been cut. If the tire has been cut or has a puncture in a location or size that cannot be repaired, replace the tire.

Be prepared for flat tires, always carry a plug type patch kit and air pump with you.



Minimum tread
4mm (.16 in.)



⚠ WARNING

Operating this Mini Bike with worn tires could be hazardous

Operating this Mini Bike with worn tires will reduce traction which could result in an accident.

Never operate this Mini Bike with tires that have a tread depth of less than 4mm (0.16 in.)

⚠ WARNING

Operating this Mini Bike with improper tire sizes or pressure could be hazardous

Operating this Mini Bike with improper tire sizes or pressure could result in loss of control of the Mini Bike which could result in an accident.

Never operate this Mini Bike with improper tire sizes or pressure.

Storage

If the Mini Bike is left unused for an extended period of time proper storage maintenance is required.

1. Wash Mini Bike thoroughly, then wax painted parts with a non abrasive auto wax. Coat vinyl seat and rubber parts with a vinyl/rubber protectant.

Note: Keep water away from air intake and muffler outlet while washing to avoid water from entering the engine and/or components.

2. Drain carburetor by placing fuel valve (1) to the off (left) position and opening the drain screw (2). Allow all fuel to drain from the carburetor. Once fuel is drained, re-tighten drain screw (2).

Note: Make sure to drain fuel in a proper storage container.

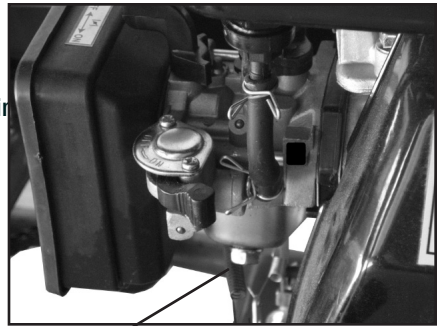
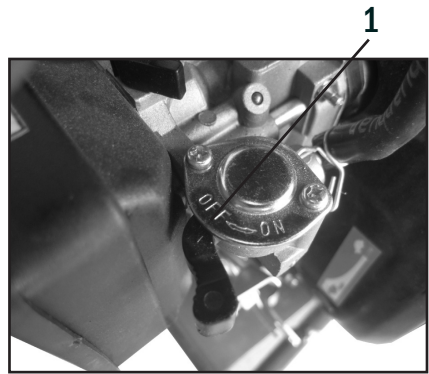
3. Fill fuel tank to full with gasoline mixed with fuel stabilizer as recommended by the fuel stabilizer manufacture. Note: Fuel stabilizer can be purchased at most motorcycle shops and auto parts stores.

4. Remove spark plug and pour 1 tablespoon of motor oil in the spark plug hole. Re-install spark plug.

5. Place the starter button to the off position and pull the start recoil cord a few times. This is to coat the inside cylinder head with oil.

6. Fill tires with correct air pressure.

7. If possible, store Mini Bike in a shed or garage with a cover to protect from dust, dirt and humidity. If the Mini Bike must be stored outdoors, cover completely with a good waterproof cover.



2

Returning to service

1. Wash Mini Bike thoroughly.

Note: Keep water away from air intake and muffler outlet while washing to avoid water from entering the engine and/or components.

2. Drain engine oil and replace with fresh clean oil as listed in this manual.

3. Review this owner's manual and follow the pre-ride inspection procedures.

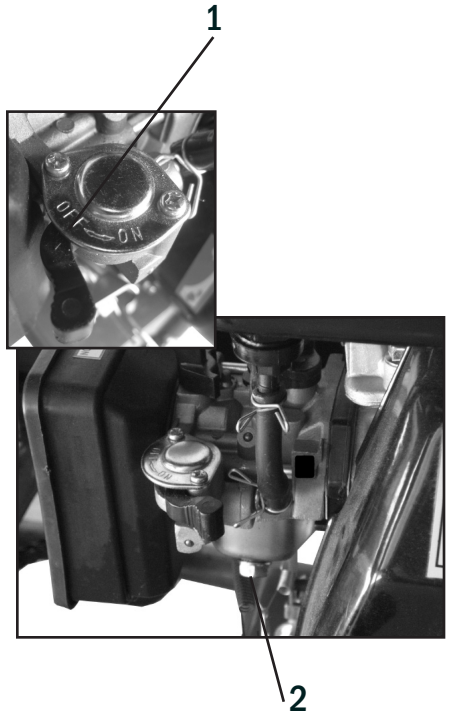
4. Start engine by following the starting procedures in this manual.

Washing the Mini Bike

1. Wash mud and dirt off Mini Bike with low pressure water from a hose. Do not use high pressure nozzles, this could allow water to enter the engine causing damage.

2. Wash Mini Bike using a mild detergent or car soap using a sponge, soft rag or brush. Do not use any cleaning materials that could scratch the surfaces.

Note: Be careful not to allow water to enter the muffler outlet, air filter intake, brake cable, throttle cable or switches.



Transporting

1. Make sure fuel valve (1) is turned to the OFF (left) position.

2. Drain carburetor by turning fuel valve (1) to the off position and opening the drain screw (2). Allow all fuel to drain from the carburetor. Once fuel is drained, re-tighten drain screw (2).

Note: Make sure to drain fuel in a proper storage container.

3. Transport the Mini Bike with the Mini Bike in the upright position (3) tied down securely.



TROUBLESHOOTING

Trouble	Possible cause	Solution
<p>Engine will not start</p>	<ul style="list-style-type: none"> • Low fuel • Stale or contaminated fuel. • Fuel valve is in the “OFF” position • Loose spark plug • Spark plug fouled or defective. • Spark plug gap is incorrect • Spark plug cap is not attached • Choke is not in the “ON “ (right) position for starting a cold engine. • Problem with the electrical system • Air filter dirty • Valves not adjusted properly 	<ul style="list-style-type: none"> • Fill with fresh fuel • Have a service center flush and fill with fresh fuel. • Place fuel valve in the “ON” position. • Tighten spark plug • Clean or replace plug • Gap the plug • Attach spark plug cap • Place choke in the “ON” (right) position • Take to a service center for repair • Clean or replace air filter • Take to a service center for repair
<p>Engine stalls or runs erratically</p>	<ul style="list-style-type: none"> • Low fuel • Stale or contaminated fuel • Choke is left in the “ON” (right) position • Spark plug is fouled or defective • Spark plug gap is incorrect • Spark plug cap is loose • Carburetor is clogged or has water in it • Idle is not adjusted properly • Problem with the electrical system • Air filter dirty • Valves not adjusted properly 	<ul style="list-style-type: none"> • Fill with fresh fuel • Have a service center flush and fill with fresh fuel. • Place the Choke toward the “OFF” (left) position. • Clean or replace plug • Gap the plug • Secure the spark plug cap • Take to a service center • Take to a service center • Take to a service center for repair • Clean or replace air filter • Take to a service center for repair

SPECIFICATIONS

Engine

Displacement	98cc
Starting	Recoil Cord
Spark Plug Type	Torch/E5TC or NGK/BPMR6A
Cooling	Air cooled
Ignition Type	T.C.I
Cylinder head config.	OHV
Number of Cylinder	Single
Combustion Cycle	4-stroke
Bore and Stroke	52 x 46mm
Compression Ratio	5.6:1
Carburetor	Zhejiang / Fujian
Rated Power	.9kw @ 3600rpm
Rated Torque	3.2Nm @ 3000rpm
Idle Speed	1500 ± 150 rpm
Top Speed	15mph (24km/h)

Transmission

Drive System Type	Chain Drive
Gear Ratio	Centrifugal clutch

Suspension

Front Type	Low pressure tires
Rear Type	Low pressure tires

Braking

Rear Brakes (Type)	disc
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Tires

Front Tire Size	145/70-6
Rear Tire Size	145/70-6

Dimensions and Weights

Length	51in (1295mm)
Height	34in. (863mm)
Width	24.5in. (622mm)
Wheelbase	36.5in. (927mm)
Vehicle Wt.	78lbs. (35.4kg)
Weight Cap.	150lbs (68kg)

Fuel

Gas Tank Capacity	.36gal (1.4L)
Fuel type	Unleaded 87 octane or higher

Oil

Oil Capacity	.40qt. (.45L)
Oil Type	SAE 15W-40 SF

FRAME AND ENGINE NUMBER LOCATION

The Vehicle identification number and the engine number are needed when calling for parts, service center help or when registering your Mini Bike. Locate the numbers and list the numbers below for reference.

VIN #



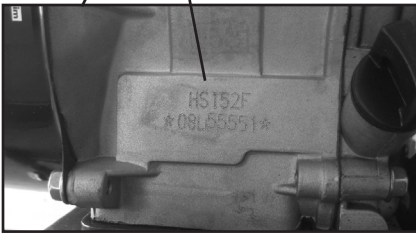
The 17 digit Vehicle Identification Number (VIN) is located on the vertical tube on the neck of the mini bike

Vehicle Identification Number

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ENGINE #



The engine number is located on the center, bottom front portion of the Mini Bike Engine.

Engine Number

**EMISSION CONTROL SYSTEM WARRANTY
PRIDE ENTERPRISE LLC, . – EMISSION CONTROL SYSTEM WARRANTY
YOUR WARRANTY RIGHTS AND OBLIGATIONS**

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

OWNER'S WARRANTY RESPONSIBILITIES

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

WARRANTY COVERAGE

The Distributor warrants that each new 2009 and later vehicle:

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

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

Coverage of repairs under this warranty applies only when repairs are completed at an authorized dealer or repair facility of the owner's choosing. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your vehicle's emission control system. If such a replacement part is used and an authorized dealer determines it is defective or causes a failure of a warranted part, your claim for repair to bring your vehicle into compliance with applicable standards may be denied. This Emission Control System Warranty is in addition to the standard Limited Warranty.

EXCLUSIONS AND LIMITATIONS

This warranty does not cover the following:

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

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

LIMITED LIABILITY

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

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

No dealer is authorized to modify this Emission Control System Warranty. If you have any questions regarding your warranty rights and responsibilities, you should contact Pride Enterprise, LLC. at 600 Stewart St. Suite 1200, Seattle, WA98101 or the California Air Resources Board, 9528 Telstar Avenue, El Monte, CA 91731 (for California registered vehicles only).



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