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NOTICE!

Failure to follow these instructions nullifies any warranty, whether stated or implied.

Before operating your Badger 100 Mini Bike

∛Warning!

A pre-operation check must be conducted, before starting the engine, insure safety, prevent mishaps, and damage to components.

It is strongly suggested that all operators take a certified motorcycle rider's course prior to operating the vehicle.

Full attention is required during driving; paying close attention to the following points to avoid any injury to you by other motorized vehicles:

Do not drive too close to other vehicles.

Never carry a passenger. This mini bike is for one operator only

Never operate this mini bike at night. Night is defined as the period of time 30 minutes before sunset to 30 minutes after sunrise.

Driving at high speeds is the cause of many accidents; do not drive at a speed that the actual situation does not permit.

This user's manual contains important safety and maintenance information. Read it carefully before riding. Failing to follow the warnings contained in this manual could result in INJURY or DEATH.

It is important that this manual remain with the vehicle when you transfer it to another user or owner.

All information, illustrations, photographs and specifications contained in this manual are based on the latest product information available at the time of publication. Due to improvements or other changes, there will be some discrepancies in this manual. 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 the vehicle previously built or sold.

Always avoid operating this mini bike on paved surfaces, including; sidewalks, paths, parking lots, driveways, streets, roads, and highways. Never operated this or any Off-Road vehicle on a public street, road or highway where motor vehicles are in operation.

A DOT approved motorcycle helmet is the most important part of you safety gear. A DOT approved motorcycle helmet can help prevent a serious head injury. Choose a helmet that fits snugly. Motorcycle dealers can help in selecting a good quality helmet which fits properly.

WARNING

Operating this Mini Bike without wearing an approved DOT motorcycle helmet, eye protection, and protective clothing could be hazardous.

Operating without an approved DOT motorcycle helmet or eye protection increases your chances of a severe head injury or death in an accident. Operating without protective clothing also increases your chances of severe injury in an accident.

Always wear an approved DOT motorcycle helmet which fits properly. Always wear eye protection (goggles or face shield). You should also wear gloves, boots, long sleeve shirt or jacket, and long pants.

You should wear eye protection when you ride. If a rock or a branch hits your eyes, you could be severely injured. Wear goggles or a face shield.

Wear proper clothing when you ride. The proper clothes can protect you from injury. Wear a good pair of gloves, strong boots that are over the ankle, long pants, and a long sleeve shirt.

CAUTION

Never perform any unauthorized modifications to this vehicle. Only use original replacement part which can be obtained through YUKON TRAIL INC. 877-441-6999



Description	Data	Description	Data
Overall length	1295mm (51 inch)	Bore x Stroke	52 X 45
Overall width	476.2mm (18.75 inch)	PTO shaft rotation	Counter clockwise
Overall height	863.6mm (34 inch)	Displacement of cylinder	97cc
Wheelbase	927.1mm (36.5 inch)	Spark plug	NGK- 6RTF, BM4A, BMR4A
Dead weight	33.57 kg (74 lbs.)	Spark plug gap	0.6mm -0.7mm (.024 inch028 inch)
Payload	96.7kg (200 lbs)	Ground clearance	127 mm (5 inch)
Front wheel	145/70-6 See specified pressure on tire	lgnition system	Non contact transistor magneto
Rear wheel	145/70-6 See specified pressure on tire	Tire pressure	24 psi Max. to seat bead 4 psi Operating pressure
Brake Type	Disc	Drive	Auto clutch
Capacity of gasoline tank	1.4L (.36 gal.)	Capacity of oil tank	.45L (.40 qt.)



-LEFT AND RIGHT HAND GRIP OPERATION -



Pulling in brake lever located on left hand grip will stop mini bike.

Applying the hand throttle (moving throttle counter clockwise) will cause engine rpms to increase, causing mini bike to move forward.

Depressing "OFF" Button will turn off engine.

ENGINE PULL CORD OPERATION

Pull Cord

Pulling the pull cord will start the engine.



Fuel filling

The capacity of the fuel tank is 4.2L (.95 gal). Unscrew the gas cap by turning it counter clockwise and carefully fill the tank with unleaded gasoline through the opening. DO NOT MIX GAS AND OIL TOGETHER, THIS IS A 4-STROKE ENGINE. Replace the gas cap by carefully aligning the threads on the cap and the tank and turning the cap clock wise. Wipe any spilled fuel from the dirt bike using a cloth and dispose of the cloth properly. DO NOT SMOKE OR REFUEL THE VEHICLE NEAR OPEN FLAMES OR NEAR HEATING UNITS. ONLY REFUEL THE VEHICLE IN OPEN AREAS TO REDUCE THE LIKELIHOOD OF THE BUILD UP OF GASOLINE FUMES.



WARNING

Overfilling the fuel tank could be hazardous.

If you overfill the fuel tank, fuel may overflow when it expands. Expanding is due to heat from engine or sun. Overheated fuel could easily catch fire.

Stop adding fuel when the fuel level reaches the bottom of the filler neck.

Fuel Valve operation -

ON: With the handle of the fuel valve to "ON" position, the fuel supply will flow to the carburetor. In this position the engine is able to start and run.

OFF: With the handle of the fuel valve to "OFF" position, the fuel supply is cut off to the carburetor. In this position the mini bike will not start and will not run.



Fuel Valve Handle

INSPECTION BEFORE RIDING-

ITEM TO CHECK	CONTENT		
Steering	Smoothness; No restriction of movement; No		
	play or looseness		
Brakes	Proper brake lever free play; enough brake		
	force.		
Tires	Proper air pressure; Enough tread depth; No		
	cracks, rips, or other damages Note: Check tire		
	pressure, spec is located on side of tire.		
Fuel	Enough fuel for the intended trip; Fuel hose		
	connected securely; No damage to fuel tank or		
	cap; Fuel tank cap closed securely		
Engine stop switch	Proper operation		
Engine oil	Proper level - Check oil by inspecting Engine Oil		
	Dip Stick. The engine oil should be between the		
	Minimum and Maximum lines.		
Throttle	Proper free play of throttle lever; smooth		
	response; quick return to idle position		
General condition	Bolts and puts are tight: no rattle from any parts		
General condition	Bolts and nuts are tight; no rattle from any parts of the engine when running, no visible		
	evidence of Damage		
	evidence of Damage		

WARNING

Failing to inspect the Mini Bike before operating could be hazardous. Failing to perform proper maintenance could also be hazardous.

Failing to inspect and maintain your Mini Bike could increases the chances of an accident or equipment damage

Always inspect your Mini Bike each time before riding, and make sure it is in a safe operating condition. Refer to the INSPECTION AND MAINTENANCE section in this manual.

WARNING

Operating this Mini Bike with improper tires, or improper tire air pressure could be hazardous.

If you use improper tires or improper air pressure, you may lose control of the Mini Bike. This will cause an accident.

Always use the tires with size and type tires specified in this user's manual. Always maintain proper tire air pressure as described in the INSPECTION AND MAINTENANCE section.

CAUTION

Verify oil level prior to starting (see page 11)

Starting the engine with low or no oil will damage the engine.

ENGINE STARTING AND STOPPING

WARNING

Never start the engine in a closed place as the exhausted gas from the vehicle contains toxic carbon monoxide.

- 1. Ensure there is fuel in fuel tank and oil in crank case.
- 2. Set fuel valve lever to "ON" position
- 3. Place choke lever in "ON" position
- 4. Start engine with pull start cord.
- 5. Allow engine to idle until engine is warm
- 6. Move carburetor choke lever toward "OFF" position when engine has sufficiently warmed up. Note: Engine may run ideally with choke lever placed between "ON" position and "OFF" Position.



CAUTION

Unnecessarily increasing RPM's to a high level while the Mini Bike is warming up is harmful to the engine.

Procedures for stopping engine:

1. Release throttle twist grip to slow down engine.

2. Depress stop button located on right hand grip. Depress button until engine comes to a complete stop

3. Set fuel valve lever (the fuel tank valve) handle to "OFF" position.

- INSPECTION AND MAINTENANCE-

CHECKING THE OIL

Check engine oil each time prior to operating mini bike.

The oil level should be between upper and lower lines of oil gauge.

- 1. Set the Mini Bike on level ground, screw off the oil gage plug, wipe the oil gage rod clean and then insert the gage plug into the crankcase again to check the oil level. There is no need to screw the oil gage plug completely in the hole to check the oil.
- 2. Add lubricating oil up to the edge of the fuel plug.
- 3. Screw oil gage plug tightly.

CAUTION

Never start the engine when there is insufficient lubricating oil. Otherwise, it will cause harm to the engine.



Oil dip stick

Lubricating Oil Recommended

The lubricating oil is an important factor affecting the performance and service life of the engine. Please refer to the chart for the correct grade of engine oil based on the environmental conditions in your area. Do not use any other type of oil other than what is recommended in the chart. DO NOT MIX OIL WITH THE GASOLINE.



Changing the Oil

- 1. Remove the "Screw Plug" located at the bottom of the engine and let the oil drain into an approved collection container. DO NOT PERFORM THIS PROCEDURE WHILE THE ENGINE IS HOT. SERIOUS BURNS COULD RESULT FROM CONTACT WITH HOT OIL.
- 2. Dispose of the used oil properly. For proper disposal procedures, contact your local oil recycling center.
- 3. Clean and replace the "Screw Plug" tightly.
- 4. Refill the engine with the proper amount of oil and recheck the amount of oil in the engine by using the oil gauge plug.



-CHECKING & CLEANING THE AIR FILTER -

- 1. Locate Air Filter Box at rear of engine
- 2. Remove air filter cover by unscrewing Phillips head screw
- 3. Remove foam Air filter element.
- 4. Tap Air filter element gently to remove most of the dust and dirt.
- 5. Wash foam element per instructions below then allow to dry thoroughly.
- 6. Reinstall foam air filter element.
- 7. Reinstall air filter cover



CAUTION

The air filter element must be intact or the engine will suck in dust and dirt, resulting in a shorter service life of the engine.

Water should be prevented from entering into the filter when washing the vehicle.

The filter element shall be cleaned gently without twisting to prevent it from cracking. Never wash it with gasoline or any acid, alkaline or organic volatile oil to avoid its aging, which will result in reducing the effect of the air filter oil to catch particles before they enter the engine. Replace the filter element with a new one if it is broken or cracked.

ADJUSTING THE THROTTLE CABLE-

Make sure the throttle cable is adjusted properly. To adjust throttle cable, rotate adjustment nut located at the hand throttle.

Check if the throttle twist grip has the required free operating movement.

The required free operating movement: 2-6mm (.078 -.24in) . If the grip cannot be moved freely, turn the adjusting nut to ensure proper operating movement.

After adjustment, start the engine and check for the operating movement again. Repeat the adjustment if necessary until the desired operating movement is obtained.



-ADJUSTMENT OF REAR BRAKE -

- 1. The front brake hand grip should have free operating movement of 5-7mm (.2-.3in). Adjust with free play adjustment bolt.
- 2. To make rear brake pad adjustment, turn rear adjusting bolt clockwise to loosen and counter clockwise to tighten brake tension.
- 3. Brake pads should be replaced by a qualified service technician once brake shoes are worn.
- 4. Brakes are adjusted by turning in or out the rear brake adjusting bolt.





Rear brake adjusting bolt

-ADJUSTMENT OF CHAIN -

- 1. When chain adjustment is needed, loosen 4 bolts under engine.
- 2. Move engine forward to tighten chain or backward to loosen chain.



GREASING PROCEDURES TO THE DRIVEN CHAIN

- 1. Shut off the engine
- 2. Add light amounts of machine oil or chain grease to the driving chain. (Too much machine oil or chain grease may cause splattering to occur.)

Attention:

The chain should be replaced when the adjusting limit has reached it's maximum.

- CLUTCH CLEANING AND MAINTENANCE-

After every 5 hour of use, your clutch will need cleaning and lubrication. If clutch becomes too dirty or has lack of lubrication, the clutch will have a tendency to stick. This will cause the Mini-Bike to want to take off before throttle is applied.

To clean and lubricate clutch, follow the instructions below:

- 1. Make sure engine is turned off and engine is cool before removing clutch cover.
- 2. Remove Clutch Cover
- 3. With compressed air, blow through holes to remove any dust and/or particles.
- 4. Oil Clutch bearing with a few drops of 30W motor oil Note: Make sure oil does not get inside clutch itself.
- 5. Push Mini bike forward without starting allowing oil to flow through bearing surface.
- 6. Re-install clutch cover

WARNING

Starting engine with clutch cover removed could be hazardous

Starting engine with clutch cover removed, increases the chance of getting your person caught in moving components which could result in severe injury.

Never start Mini Bike with clutch cover removed.

Blow out clutch with compressed air through large holes



Clutch Cover



Oil Clutch here ONLY

VEHICLE WASHING_

Cleaning the vehicle regularly can slow down the color fading of its body and make it easier to check if there is any damage and any oil leakage.

CAUTION
Washing the Mini Bike with over-pressurized water may cause
damage to some of its components. Therefore, do use a pressure
washer to clean the vehicle. The following parts should be
cleaned using low pressure water:
— Wheel hub
— Exhaust pipe
 Fuel tank and lower portion of cushion
– Carburetor
 Head lock and ignition switch
— Meters

- 1. After pre-wiping, the vehicle should be washed with clean water to remove dirty residues so as to prevent corrosion. Plastic subassemblies should be cleaned by wiping with a cloth or foam soaked in neutral detergent solution, followed by washing with clean water.
- 2. After the cleaned vehicle is air dried, grease the chain and run the engine at idling speed for a few minutes.
- 3. Prior to driving, carefully check the braking system repeatedly and repair or adjust it if necessary.

INSTRUCTIONS FOR STORAGE

If the vehicle is not going to be used for a long period of time, for example, in winter time, some steps should be taken to prevent malfunction of and damage to its components which might be caused by long storage. Before storing the vehicle for a long period, proper maintenance has to be carried in case maintenance is not completed when the vehicle is put back into use after storage.

- 1. Change engine oil.
- 2. Drain off fuel from the fuel tank and carburetor, spray atomized anti-rust oil onto the inside wall of the tank and then close the tank. Dispose of any drained fuel properly so as not to adversely affect the environment.



Carburetor Drain screw

Attention:

If the storage will last for more than one month, fuel in the carburetor must be fully drained. This will help ensure that the carburetor maintains its normal performance after the storage.

A WARNING

Gasoline is flammable and may cause fire and even an explosion under certain conditions. Therefore, do not smoke, make a fire or have any fire around while draining off fuel.

- 3. Take out the spark plug, pour about 15-20ml (.5 .68 oz.) of clean engine oil into the cylinder, step down on the kick lever repetitively several times so as to have machine oil distributed all over the engine and finally fit the spark plug back on.
- 4. Wash the vehicle clean, wipe it dry and apply an even coat of wax to the painted surface and a coat of anti-rust oil on the chrome-plated surfaces.
- 5. Inflate the tires as required and put the vehicle up on wooden blocks with the two wheels clearing the ground.
- 6. Put the vehicle in a shady and cool place free from humidity and direct sunlight and cover it properly (not with plastic or other painted materials). If there is a garage, store it within.

- RESUMPTION OF SERVICE AFTER STORAGE —

- 1. Remove the covering and remove the wooden blocks used in storing the vehicle. Change the engine oil if the vehicle has been out of service for over 4 months.
- 2. Drain off the remaining atomized anti-rust oil from the fuel tank, followed by filling it with fresh gasoline therein.
- 3. Prior to driving, all the required check-ups must be made. It is better to drive it at a low speed in an open area to test its performance before normal operation.

- MAINTENANCE SCHEDULE –

	MAINTENANCE SCHEDOLL				
ITEM OF MAINTENANCE	EACH USE	1ST MO./20 HRS.	EVERY 3 MO./50 HRS.	EVERY 6 MO./100 HRS.	EVERY YR./300 HRS.
Engine oil-Check	x				
*Engine oil-Change		Х		Х	
Air filter-Check	Х				
*Air filter-Clean			X	X	
*Air filter-Change					х
*Carburetor sediment cup-Clean			X		
Spark plug-Check-Adjust				X	
Spark plug-Replace					х
Idle speed-Check-Adjust					Х
**valve clearance -Check-Adjust					Х
Fuel tank and filter-Clean					Х
Fuel tube-Check					х
Centrifugal Clutch - Clean and Lube	X Every 5 hours operation				
All nuts and bolts-Check for tightness	x				
Chain tension-Check	Х				
*Brakes-Check	X				
*Throttle-Check	Х				
*Throttle cable-Check	Х				

"*" means: This item of maintenance should be carried out at a service center. It may be also done by the user with reference to this manual provided special tools and authorized spare parts are used. The user must also be capable of completing the procedure. "**" means: This item can only be carried out by an authorized service center in order to ensure safety.

Notes:

- 1. Maintenance should be conducted more frequently when Mini Bike is driven in dusty areas.
- 2. When Mini bike has exceeded the maximum figures specified in the table, maintenance should be still cycled according to the intervals of time or hours stated herein.

-TROUBLESHOOTING -

Engine will not Start

1 Evaluative OFF	Maya Fuel value laver to ON
1. Fuel valve OFF	Move Fuel valve lever to ON.
2. Choke OPEN	Move Chock Lever to CLOSED
3. Out of fuel	Refuel
4. Bad fuel; engine stored without	Drain fuel and carburetor.
treating or draining gasoline, or	
refueled with bad gasoline	Refuel with fresh gasoline
5. Spark plug faulty, fouled, or	Remove and inspect spark plug.
improperly gapped	Clean, gap, or replace
Spark plug wet with fuel	Remove and inspect spark plug.
(flooded engine)	Dry and reinstall spark plug.
7. Fuel filter clogged, carburetor	Take the engine to a qualified
malfunction, ignition	mechanic. Replace or repair
malfunction, valves stuck, etc.	faulty components as necessary

Engine Lacks Power

1. Filter element (s) clogged	Check air filter Clean or replace.
2. Choke lever may be not fully open	Check choke lever
3. Bad fuel; engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor. Refuel with fresh gasoline.
4. Fuel filter clogged, carburetor malfunction, ignition malfunction , valves stuck, etc.	Take engine to a qualified mechanic. Replace or repair faulty components as necessary.

ELECTRICAL SCHEMATIC



WARRANTY REGISTRATION RETURN THE BADGER 100 MINI BIKE PRODUCT REGISTRATION WITH A COPY OF YOUR SALES RECEIPT TO : Yukon Trail, Inc. 4142 Pacific Privado, Ontario, CA 91761

Name:				
Address:				
City:	_ State:		Zip	
Phone:		_ E-mail:		
Date Purchased:				
Store Where Purchased:				
Store Address:				
Receipt or Transaction #:				

The registration must be returned to Yukon Trail, Inc. within 10days of purchase. It is the only information Yukon Trail will have for notification to you of any information regarding this product. This information is for the sole purpose of product/registration and will not be sold or used for any other purpose.

A COPY OF THE SALES RECEIPT AND UPC BAR CODE MUST BE INCLUDED WITH THIS REGISTRATION CARD.

Thank you for purchasing an Yukon Trail, Inc. Badger 100 Mini Bike. If there are parts missing or if your Badger 100 Mini Bike does not run properly, do not return your Badger 100 Mini Bike to the place of purchase. Please call Yukon Trail, Customer Service at 877-441-6999

PLEASE DO NOT RETURN PRODUCT TO RETAILER FOR WARRANTY OR REPLACEMENT PARTS.

*or register online at <u>www.yukontrailinc.com</u> using the warranty link or fax to 877-443-9284



Yukon Trail, Inc.

LIMITED WARRANTY

Your Badger 100 Mini Bike is warranted to be free of manufacturing defects in material or workmanship for a period of 90 days. During the warranty period Yukon Trail, Inc. will at its option, repair, provide replacement parts or replace your Badger 100 Mini Bike at no charge. This warranty does not cover normal wear and tear, or damage caused by neglect, or misuse of the product.

Should you experience a problem or need to return your Badger 100 Mini Bike for repair, please call the Yukon Trail customer service department TOLL FREE AT 877-441-6999 between the hours of 9AM and 4PM PST Monday thru Friday. You will be instructed how to proceed. A copy of receipt is required. You may also contact Yukon Trail, Inc. by writing.

> Yukon Trail, Inc. Ontario, CA 91761 Or

www.yukontrailinc.com

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