

# ATK-150



# Owners Manual

Thank you for purchasing the Jehm Adventure Buggy. We hope it will bring you years of enjoyment. Before you begin to operate the buggy please thoroughly review this owner's manual, as it contains critical safety and maintenance information. Failure to follow the recommendations and warnings contained within this manual can lead to premature failure of the buggy, injury, or death.

Be sure to strictly follow the recommended maintenance schedule outlined in this booklet. Preventative maintenance is critical to the longevity of the buggy and to your enjoyment.

New buggy owners and inexperienced riders should seek advice and training from the dealership they purchased the buggy from. Also, familiarize yourself with the operation and features of the buggy in a large open area before attempting more challenging terrain.

We hope you will enjoy your purchase of the Jehm Adventure Buggy.

## a short note about safety...



To guarantee the safety of yourself and those around you, please take responsibility for the safe operation of your buggy. To facilitate the safe operation of your buggy, we have provided operating procedures and warnings both in this manual and on the buggy itself. Please consider these warnings anytime you operate the buggy.

It is impossible to alert you to all of the potential hazards encountered when operating any off-road vehicle. **There is no substitute for your own good judgment.**



# Important Safety Information

This manual is filled with important safety information, please review it carefully. The following are critical safety items that are of paramount importance:

**Follow The Age Recommendations:** The buggy should not be operated by anyone under the age of 16. Adult supervision is required for any operator under 18.

**Always Wear a Helmet:** Helmets significantly reduce the severity of head injuries. Always wear a DOT approved motorcycle helmet when operating the buggy. We also recommend eye protection, gloves, and appropriate clothing.

**Drive Off-Road Only:** Your buggy is approved for off-road use only. The suspension and tires are designed for the off-road environment, and pose a risk if operated on pavement.

**Take Time to Learn and Practice Safe Operation:** Every buggy has specific handling characteristics. Practice in a safe, open area until you are familiar with the safe operation of this buggy. Most accidents involve inexperienced and untrained operators. Please consult with your dealer about the availability of professional training.

**Be Constantly Alert For Off-Road Hazards:** Off-road terrain presents a constantly changing series of challenges and hazards. You must maintain constant attention and alertness for unexpected changes in terrain. Always keep your speed within a safe margin to identify and avoid hazards.

**Drive within Your Limits:** Never drive beyond your personal abilities or what the condition dictate. Drugs, alcohol, or fatigue can significantly reduce your ability to make good judgments.

**Do Not Drink and Drive:** Even one drink can impair your reaction time and judgment. Never drink and drive, and never allow an intoxicated person to operate the vehicle.

**Never Operate the Buggy at Night:** Night visibility will greatly reduce a driver's vision and judgment. Night riding increases the opportunities for an accident and can be dangerous.

**Never Run Your Buggy Indoors:** The exhaust from the buggy engine contains carbon monoxide, and odorless, tasteless gas that is extremely hazardous.

**Keep Away From Moving Parts of the Buggy:** The operator and passenger of the buggy must be mindful of all moving parts. Failure to adhere to these warnings will cause physical injury.



## Pre-Delivery Inspection and Setup



- a. Install rear shocks and tighten nuts
- b. Install the top of front struts and tie rods. Tighten the castle nuts and install cotter pins.
- c. Install the dust seals, then the lower front spindles.
- d. Install flange nuts and torque to 88 foot-pounds.
- e. Install front tires and tighten lug nuts.
- f. Install rear tires, tighten the nuts, and install cotter pins. Install rubber hub covers.
- g. Raise and install the brush guard bar as shown.
- h. Install the rear brush guard bars using special washers
- i. Install seat head rests.
- j. Check and tighten all other nuts, bolt, cables, wires, and fluids. Inflate tires.
- k. Fill battery with acid and charge.



# Pre-Drive Checklist

Before each time you operate your buggy you must complete the following pre-ride inspection:

- Read the owners manual and warning decals on the buggy.
- Inspect the buggy for any loose fasteners or damage and repair accordingly.
- Verify condition of the air filter and clean if necessary.
- Check engine oil level and fill if necessary.
- Check the tension on the drive chain.
- Check tire pressure.
- Check the fuel level and fill as required.
- Verify proper brake fluid level in the master cylinder.
- Check the free play in the throttle cable and adjust as necessary.
- Turn the steering wheel and verify proper motion lock-to-lock.
- Inspect the required safety equipment.

While operating the buggy, make sure that seat belts and proper safety gear are worn at all times. Also, periodically inspect the buggy and verify the proper oil level while riding.

# Operating Instructions



**Warning**—do not attempt to start or operate the engine until you are familiar with the location and operation of each control necessary to safely operate the buggy. The operator must know how to stop the vehicle before starting and driving it.

**Throttle**—the right foot pedal controls the throttle and the buggy's speed. As the pedal is depressed and the engine speed increases above idle, the clutch automatically engages and the buggy starts to move forward. Returning the throttle to idle will disengage the clutch.

**Brake**—the brake is located on the left pedal. Applying pressure activates the master cylinder which provides pressure to the disk brakes on front and rear. This slows or stops the buggy.

**Starting the Engine**—insert the key into the switch and turn clockwise. Release the key once the engine starts. The engine will warm within 5-minutes and the electric choke will automatically disengage. ***Do not operate the starter motor for more than 5-seconds at a time.***

**Engine Start Button**—before driving the vehicle test the engine stop button to ensure its proper operation. While the engine is running, depress the stop button for 2-seconds to shut down the engine.

**Passengers**—this buggy can carry two-passengers only. The combined weight of the driver and passenger must not exceed 400-pounds.

**Seat Adjustment**—the seat must always be secured in a position which allows the driver full control of the buggy's pedals and steering wheel. To adjust the seat location, pull the adjustment handle upward and slide the seat to the desired location. Once the desired location is found, release the handle and verify it has snapped back into its locked position. Adjust the seat only when the buggy is fully stopped and the engine is off.

**Reverse Usage**—to utilize the reverse gear in the buggy, first come to a complete stop. With your foot on the brake, pull the reverse handle toward you and slide it into the locked position. Then, slowly and carefully release the brake and depress the throttle lightly using great caution to what is behind the buggy. ***Failure to follow these steps exactly will cause premature failure of the reverse gear.***



# Service Instructions

## 1. **Service Air Filter**

- a. Service the air filter every 10 hours.
- b. Remove cleaner cover.
- c. Remove air filter element
- d. Fill a tray with a non-flammable cleaning agent and soak the filter.
- e. Rinse and dry the filter element
- f. Oil the element using light filter oil.
- g. Reinstall element and cover.

## 2. **Reverse Cable Adjustment**

- a. While the reverse lever is in the forward position, there must be ½" of free play in the cable.
- b. To adjust free play, loosen the lock nut on the cable, and turn the adjusting collar accordingly.

## 3. **Engine Oil**

- a. The engine oil must be changed before first starting a new engine. After 5 hours of operation it must be changed again, thereafter every 10 hours of use. Frequent oil changes are inexpensive insurance against engine failure.
- b. To drain the engine oil, first, remove the drain plug on the right-rear side of the engine.
- c. Tip the buggy backwards and drain the oil into a suitable container.
- d. Remove and clean the oil filter screen.
- e. Fill the engine with approximately  $\frac{3}{4}$  quart of 10w40 conventional oil.
- f. Check the oil lever before each use of the buggy, and add oil as required.

## 4. **Spark Plug**

- a. Remove and inspect the spark plug every time you change the engine oil. The plug should be replaced every year.
- b. Verify the spark plug gap. It should be between 0.6mm-0.7mm. Use a feeler gauge and adjustment tool to bring the gap within specification.
- c. Clean the spark plug of debris, carbon, and oil with a wire brush.
- d. Before reinstalling the plug, coat the threads with an anti-seize compound.



# Service Instructions

## 5. **Drive Chain**

- a. Inspect the chain before each use of the buggy. Chain should be lubricated every 10-hours of normal use. In heavy mud, sand, or dust lubricate the chain every use.
- b. The chain should have between 3/8"-1/2" play.
- c. To adjust the chain, loosen the lock nut, and make 1/2 turn adjustments to the second nut until the desired height is achieved.
- d. Retighten lock nut.

## 6. **Storage Instructions**

- a. Use the following precautions if you plan on not using the cart for 30-days or more.
- b. Drain the fuel tank and carburetor bowls of fuel.
- c. Spray fogging oil or "WD-40" inside of the fuel tank. Then remove the spark plug and spray oil into cylinder while turning the engine over.
- d. Disconnect and store the battery.



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