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Safe Use Information

In the better interest of the customer, Wildcat, Inc. has taken into consideration several key safety steps to be followed regarding the AlumiCAT. These safety precautions, called Safe-use, can help reduce risk of injury for both the operator and surrounding bystanders during the use of the AlumiCAT. The purpose of this operator's manual is to ensure the existence of a Safe-use environment in an effort to reduce risk of injury and increase customer satisfaction with the AlumiCAT. This operator's manual is also intended to extend the service life of the AlumiCAT if the recommended proper and regular maintenance instructions are followed. Every operator of the AlumiCAT should read the entire operator's manual, and is responsible for any accidents that may occur during operation.
Components and Key Features
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1. Arm Rest
   Arm rest with finger tip controls. Left hand is the engine selector knob, key switch and steering. Right hand is the throttle.

2. Superior Steer
   The redesigned front axle reduces the turning radius by 20% over previous years’ tractors.

3. Bully Clutches
   Each engine is equipped with a 4-disc Centrifugal Clutch. This feature also allows engines to be started individually.

4. Telescoping Engine Mount
   In order to disconnect the engines before maintenance, the engine mount has the ability to slide to assist in loosening the chain.

5. Mounting Grab Handle
   For added safety when mounting the tractor, a grab handle has been added.

6. Steering Switch
   The standard rocker switch for steering control is attached in a comfortable position on the left-side grab handle.

7. Throttle
   A lever-action throttle offers more control over the tractor. Pressing the level forward increases the throttle of the AlumiCAT.

8. Hitch
   The hitch is located on the rear of the tractor. For more information see pulling section.

9. Fuel Tank
   The fuel tank is located under the seat. It holds approximately 1 gal of fuel, with a sight gauge located at one quart. In case of emergency or for repairs, the fuel shut off valve is in the rear of the tractor under the operator’s station.

10. Ignition
    The ignition is made up of a key and a engine selector know to start the engines.

11. Brakes
    There are individual brakes for each wheel. They are located on opposite sides of the operator’s station.

12. Side Mount Engines
    The engines mounted on the side moves weight distribution further towards the rear axle to improve pulling performance.

13. Aluminum Frame
    Gives the operator an increased power to weight ratio.
Using the AlumiCAT

Safe-use Pre-Operation
The following Safe-use checklist should be used before using the AlumiCAT in order to maintain a safe-use environment:

- **Proper Clothing** - Long sleeves, pants, and/or fire suit, as well as closed toed shoes
- **Helmet** - The operator should always wear a helmet while operating the AlumiCAT
- **Face shield/Eye goggle** - Proper equipment should be worn to protect the operator’s eyes and face. A face shield on the helmet is recommended, but eye goggles are acceptable.
- **Visual inspection of the AlumiCAT** - The operator should inspect all areas of the AlumiCAT to make sure it is in proper working condition. Inspection points include, but are not limited to, air pressure of tires, quality and quantity of fluids such as fuel and engine oil, and any visible physical damage to the frame or other areas of the AlumiCAT.
- **Check electrical system, fuel lines, and throttle cables.** Visual inspection of these systems should be carried out to make sure they have not been damaged or become worn.
- **Check kill switch.** Make sure the kill switch is in proper working order.
- **Make sure all shielding is in place.** Inspect all of the shielding of rotating components and exhaust. Never operator the tractor without the shielding in place.
- **Check Chains.** Make sure the chain is still tight and in working order

Safe-use During Operation
The following Safe-use guidelines should be followed during operation of the tractor:

1. Remain in the operator’s station the entire time the AlumiCAT is running. At no time should the operator leave the AlumiCAT unattended while it is running. If the operator is forced to leave the tractor, it should be turned off in the appropriate manner beforehand (see Stopping).
2. Keep hands and feet in side the operator’s station. Avoid heat sources and rotating components (engine exhausts and driveline components).
3. The operator should be fully aware of the location of components within the operator’s station, as well as how they are properly used (pedals, throttle, steering, ignition switches, fire extinguisher, grab handle).
4. The fire extinguisher is mounted on the fender, to the left side of the operator’s seat. The operator should be familiar with the directions located on the fire extinguisher, so that in the event of a fire the operator can sustain it long enough to exit the AlumiCAT and to move a safe distance away from the tractor.
5. The operator should always operate the AlumiCAT at a responsible speed. The operator is not to maintain operation at such a speed which would make the tractor hard to maneuver, stop, or exit in the case of an emergency.
6. The AlumiCAT is not designed to carry more than one person at a time. It is prohibited to carry passengers on the AlumiCAT.
7. The AlumiCAT is not equipped with headlights or running lights. Therefore, the AlumiCAT should only be operated in well-lit conditions.
8. At no time should the operator attempt to operate or perform maintenance on the AlumiCAT while under the influence of drugs and/or alcohol.
**Starting the AlumiCAT:**
The following steps should be followed to effectively start the AlumiCAT and prepare it for operation:

1. Mount the operator's station and fully depress the seat.
2. Place the shift lever in the neutral position.
3. Fully engage and hold both brake pedals.
4. Select the engine you wish to start using the engine selector switch.
5. Insert the key, and turn to ignition switch to the on position. (In colder environments, the choke levers on the engines may need to be pulled in order for the engines to start. In this situation, it is recommended to have someone assist the operator so that the choke levers can be replaced to the original position after the engines are running.)

**Stopping the AlumiCAT:**
1. Hold both brake pedals and release throttle until the AlumiCAT comes to a complete stop.
2. Turn the key to the OFF position and remove it.
3. Do not return the shift lever to the neutral position until ready to operate the AlumiCAT again. Leaving the shift lever out of the neutral position will help prevent accidental rolling of the AlumiCAT.

**Pulling With the AlumiCAT:**
The AlumiCAT is designed for pulling uses, and will perform acceptably in such situations. To ensure sufficient performance and safety, the following steps should be taken during a pull:

1. The operator should be fully aware of the rules pertaining to the existing pull, as well as bystanders within the vicinity.
2. Maneuver the AlumiCAT slowly onto the track, and into position in front of the sled, using the help of the person directing you.
3. Attach the chain securely to the hitch, and properly connect the kill switch.
4. After the AlumiCAT is prepared to pull, await for the start signal. After receiving the start signal, release the brakes and fully engage the throttle.
5. While pulling, the steering switch and brakes can be used to keep the AlumiCAT on the track.
6. At the end of the pull, and when instructed, release the throttle and press the brakes to stop. After the sled is unattached from the AlumiCAT slowly exit the track.

**Ballasting the AlumiCAT:**
Both in pulling situations and other instances, it may be necessary to ballast the AlumiCAT by adding weight to the provided weight brackets. There are brackets located in the front and rear of the tractor, two under the operator's station and one behind the battery (shown in figure below). The amount and position of the weight added depends on the condition of the track, and the circumstance under which the AlumiCAT is being used. It is a common practice to add weight on the rear weight bracket, which adds weight to the rear drive wheels, increasing the amount of power transferred to the ground. In some situations, however, it may be necessary to add weight to the front weight bracket in order to keep the front wheels from lifting off the ground.
Maintenance/Upkeep
Before doing any maintenance on the tractor, the battery cables should be removed. Also the chains on the engines should be disconnected by sliding the engines toward the frame and removing the chain.

Maintenance Before Every Use
It is necessary to properly care for the AlumiCAT in order for it to remain at maximum operating efficiency. Different maintenance procedures should be conducted at different time intervals to accomplish this. The following tasks should be performed (in addition to the Safe-use pre-operation procedures) before every use:

- Check brakes and hitch.
- Check nuts, bolts, and screws to ensure all components are securely fastened.
- Check and clean the engine air filters if needed.
- Disconnect engine spark plugs and check to see if they are in proper condition.

Maintenance After Storage
The following tasks should be performed every year after removing the AlumiCAT from a storage position:

- Replace engine filters (oil filter, air filter)
- Replace engine oil
- Check/replace spark plugs
- Replace fuel filter

Fuel
Only use unleaded gasoline in the AlumiCAT. Any other substance is strictly prohibited. Always check the quality and quantity of the fuel in the AlumiCAT before operation to reduce the risk of damaging components. In order to add fuel, raise the operator’s seat, and remove the gas cap. Refill
the tank, taking care not to overflow. In the event of fuel spillage, remove the spill immediately using a towel or cloth. Make sure to properly replace the gas cap after refueling.

**Changing the Fuel Filter**
The AlumiCAT makes use of four in-line fuel filters, one located on each engine. In order to change the fuel filters, the operator should first turn the fuel shut off-valve, located on the bottom of the fuel tank, to the off position and remove the negative battery cable. It is also recommended for a container to be placed underneath the fuel filters in an effort to catch any fuel which may leak from the fuel lines. Next, the spring clamps on either side of the fuel filter can be moved down each rubber line, away from the fuel filter. Remove the existing filter and replace with a new one. Replace spring clamps and repeat for each fuel filter. After finished, return the fuel shut-off valve to the on position and reattach the negative battery cable.

**Engine Care**
It is necessary for the operator to properly care for the engines as well as the rest of the AlumiCAT. In order to perform proper maintenance on the engines (changing filters and oil), the operator should consult the engine operator manual which is included with the Briggs and Stratton 16 HP Vanguard engines.

**Changing Transmission Oil**
In order to properly change the transmission oil in the AlumiCAT, the following steps should be followed:

1. Raise the AlumiCAT using a lift or jack to give easy access to transmission.
2. Locate drain plug and place container underneath to catch used oil, then remove plug to let oil drain.
3. After oil is completely drained, remove fill plug and clean both plugs thoroughly. Replace drain plug, and fill transmission with approximately 3 quarts of transmission oil.
4. Replace the fill plug and appropriately dispose of used oil.

**Battery Care**
To properly clean the battery and cables:

1. Make sure that key is removed from the AlumiCAT and remove all battery cables.
2. Remove the bolt and metal strap which hold the battery in place on the tractor.
3. Remove the battery from the AlumiCAT.
4. Clean battery terminals and cable connections with a wire brush to remove any sign of dirt or corrosion.
5. Replace the battery in the battery mount on the AlumiCAT, and replace metal strap.
6. Reattach battery cables, taking care to connect proper terminals.

**Replacing the Chains**
There is a #35 roller chain between each engine and the jackshaft, and a #40 roller chain between the jackshaft and transmission input. After extended use, these chains may need to be replaced. The following steps should be followed to replace the chains:
1. Remove the chain guards by loosening the two bolts on the clutch cans.
2. Loosen the bolts on the engine mount.
3. Slide the engines toward the frame rail, letting slack into the chain.
4. Remove the chain from both sprockets.
5. Replace with a new chain.
6. Replace chain guards.
7. Pull engine outward, tightening the chain.
8. Tighten down the locking collar on the engine mount.
9. Repeat steps 1-8 for other side of the AlumiCAT.

**Transportation of the Tractor**
When transporting the AlumiCAT, the crucial factor is to make sure it is secure. It is recommended to secure the AlumiCAT at the front and rear of the tractor. The front weight bracket has holes for straps to be hooked to and the rear hitch is an acceptable anchor point. Also when transporting the tractor long distances, the frame should be supported with blocks to prevent any damage to the tractor during transportation.

**Storage of the Tractor**
If the AlumiCAT is going to be out of use for an extended period of time, it is recommended that proper storage measures be taken in order to ensure the service life of the machine. The following are some Safe-use guidelines for proper storage of the AlumiCAT:

- √ It is recommended that the fuel be completely drained from the AlumiCAT before storage.
- √ The AlumiCAT should not be stored in a place susceptible to drastic heat changes. Storing the AlumiCAT in a location which experiences minimal year-round temperature changes will help extend the life of the machine.
- √ In order to ensure all engines will remain working properly, the operator should consult the engine owner’s manual and prepare the engines for storage along with the AlumiCAT.
- √ The battery should be removed from the tractor during storage.

**Troubleshooting**
In the event the AlumiCAT will not start or respond appropriately, the following things should be checked.

- √ Battery Charged Up
- √ Fuel level
- √ Depressing left brake pedal
- √ Choked is pulled out
- √ Spark Plugs
- √ Operator is in the seat