



Dual-Aer 2400/2450 Operator's Manual



Introduction

Thank you for purchasing this Stinger Equipment, Inc. product. This manual will explain the safety, maintenance and operation of your unit.

Safety

- All operators should read the product manual in its entirety before operating. All operators must be properly trained on the controls and their functions.
- All safety equipment, shields and covers must remain in place and free of any defects. Do not use this equipment if any guards or safety decals are not in place.
- Perform an inspection of the unit before each use. Ensure all fasteners are secure, the tires are properly inflated and engine oil level is correct.
- Do not use this unit on a slope of more than 20 degrees.
- Do not use if terrain exceeds skill or comfort level.

Refueling the unit:

- Use an OSHA approved fuel can
- Do not fuel while the unit is running or hot
- Absolutely no smoking while refueling
- Refuel only outside and on level ground
- Do not overfill the unit
- Secure the fuel cap





This Symbol means: **ATTENTION! TAKE NOTICE!**
Your attention is needed to ensure your safety and the safety of those around you. This symbol is followed by a Signal word describing the level of hazard. Throughout this manual and on all equipment you will see these safety labels.

Signal word definitions:



DANGER indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.



Maintenance

Turn the unit off as shown in Figure 1, and remove spark plug as shown in Figure 2 before performing any maintenance.

Hydrostatic transmissions

- The hydrostatic transmissions features a maintenance-free design.

Belt

- Inspect the engine belt every 100 hours, or annually, for signs of wear.

Belt Replacement Procedure:

1. Disconnect the tension spring to release belt pressure
2. Take note of the belt orientation and pathway in figure 3 before removing and discard old belt.
3. Replace with new belt and reinstall tension spring.



Figure 1



Figure 2



Figure 3

Chains

- Inspect the chains after the first 4 hours of use and adjust as needed. A properly tensioned chain should have 1/4-3/8" of slack.
- Make sure the chain is clean and free of any debris.
- Every month or 50 hours check the chain tension.

Chain Tensioning:

1. Loosen idler sprocket nut as shown in Figure 4 but do not remove.
2. Slide sprocket up to increase chain tension and retighten the idler sprocket nut.
3. Lubricate both chains with cycle chain lube weekly

Engine

- Run unleaded gasoline with an octane rating of 86 or higher and 10% or less ethanol.
- Check engine oil level on level ground daily
- Drain Honda engine's oil by removing oil plug in figure 5.
- Drain Briggs engine's oil by removing dip stick as shown in figure 6 and carefully roll the unit onto its side .
- Change the oil within the first month or 10 hours, do not overfill unit.
- Regular oil changes are required every 6 months or 50 hours or sooner depending on conditions.
- 10w30 is recommended
- Clean/replace the air filter every 3 months or 25 hours.
- See supplemental Engine manufacturer booklet for additional maintenance procedures and requirements



Figure 4



Figure 5



Figure 6

Grease Points

- Grease the 4 bearings on the tine shaft every 50 hours as shown in Figure 7.

Operation

Starting and Stopping the Engine

1. Slide throttle all the way forward to apply the choke when Honda engine is cold as shown in figure 8. Briggs engine is equipped with an auto-choke; allow 60 seconds for unit to warm up before turning off.
2. Give a quick pull to the recoil.
3. Allow the unit to warm up and slide the throttle to the desired rpm.
4. Slide the throttle all the way back to turn off the engine as shown in figure 9.

First Time Use

1. Operate the unit at low speed and in a wide open area.
2. Practice making wide turns first and tighter turns as you get used to using the machine and the controls.
3. You do not have to raise the tines to make turns. Tight turns are possible with practice while aerating.
4. Raise the tines to transport the unit across hard surfaces.

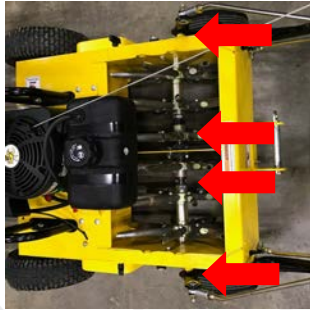


Figure 7

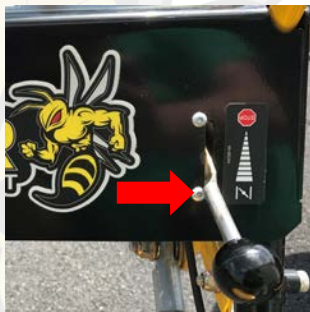


Figure 8

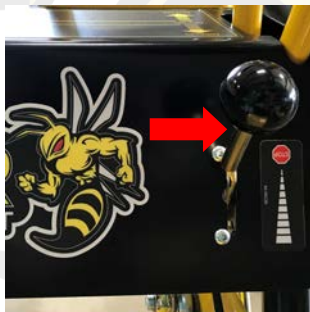


Figure 9

Unit Operation

1. Push both steering controls as shown in Figure 10 forward, to move the unit forward. The more pressure applied, the greater the speed.
2. Pull back on both steering controls to go backwards.
3. Reduce the speed of the left or right steering control while moving forward to turn left or right. Stopping the inside tine to make turns will tear and damage turf.
4. Turning in reverse is not recommended.

Usage

1. Lower aeration tines into the ground by lowering tine handle as shown in figure 11.
2. Lock the tines in the up position by lifting the handle up until you hear a click as shown in figure 12.
3. Tines can remain in the ground when making turns. Slow the inside tines for turning. Do not stop the inside tines while turning or you will damage the turf.
4. Always lift tines prior to transporting and crossing over concrete, tree roots, and other hard surfaces.

Note: Always consider what might be below the turf prior to aerating. Does the property have underground utilities, invisible dog fence, low voltage lighting, irrigation, etc... Calling 811 or a private locator service is strongly recommended. Take appropriate actions to prevent



**Know what's below.
811 before you dig.**



Figure 10



Figure 11



Figure 12

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