

AERCORE® 800 Greens Aerator

(Serial No. 010001 –)

OPERATOR'S MANUAL

**John Deere
Worldwide Commercial and
Consumer Equipment Division
OMMT3628 E7**

North American Version
Litho in U.S.A
English

INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual and your attachment manuals thoroughly. Failure to do so could result in personal injury or equipment damage.



WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
CALIFORNIA Proposition 65 Warning

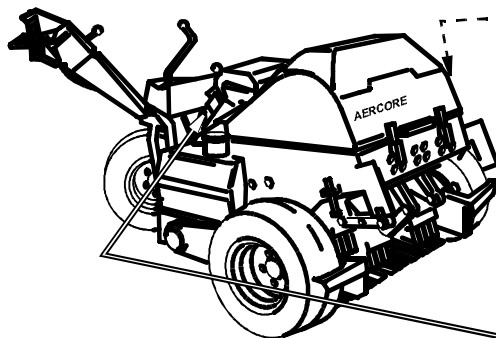
This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (- - >) it indicates the part it is pointing to is hidden.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your dealer when you order parts.

Date of Purchase:

Dealer Name: _____ **Phone:** _____



Product Identification Number:
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

(Located on side of frame)

Engine Serial Number:
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

M88380

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SAFETY SIGNS

Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

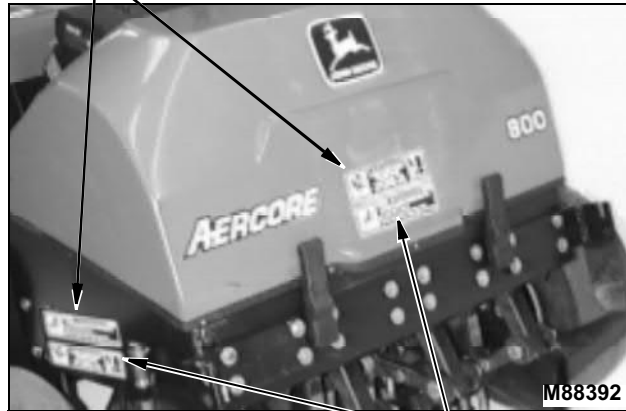
On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Labels



M86253



M88392



M86253

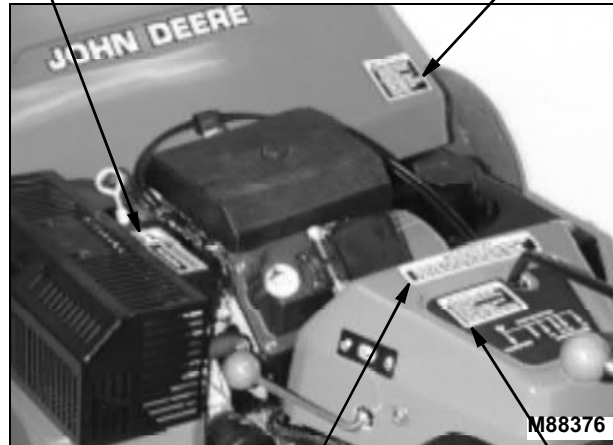
SAFETY SIGNS



M34187



MT3894



M88376



M88424

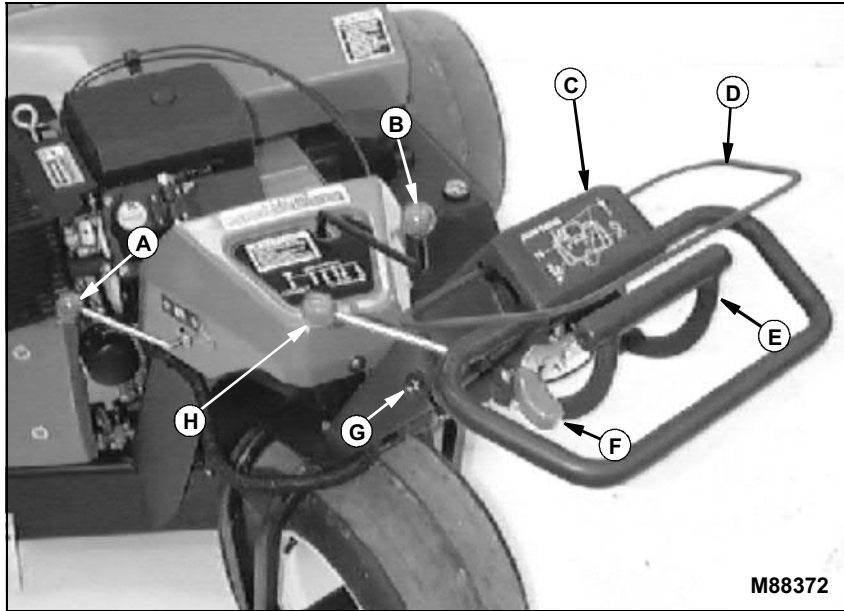


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CONTROLS

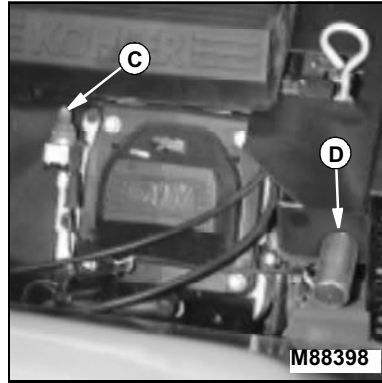
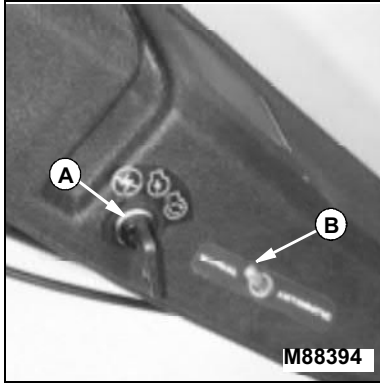
Operating Controls



- A - Park Brake Lever Prevents vehicle movement.
- B - Gear Selector Selects speed and
determines hole spacing.
- C - Operator Controls Decal.....Shows control functions.
- D - Operator Presence Bail.....Controls aerator travel and
allows drive clutch engagement.
- E - Aerator Engagement Arm..... Lowers and raises
aeration head.
- F - Throttle Lever Adjusts engine speed
and rate-of-travel.
- G - Choke Lever..... Chokes engine for starting.
- H - Travel Clutch Lever Engages drive clutch.

CONTROLS

Controls



- A - Key Switch..... Turns on engine, allows raising aeration head.
- B - Manual/Auto Switch..... Allows manual or automatic engaging of aeration head.
- C - Throttle Solenoid Switch..... Disengages throttle solenoid
- D - Throttle Solenoid Changes engine RPM as aeration head is raised or lowered

OPERATING

SAFETY

Operate Safely



- Read the entire operator manual before operating the aerator to learn safe operating procedures.
- DO NOT let children or an untrained person operate machine.
- Check vehicle brake action before you operate. Adjust or service brakes as necessary.
- Inspect aerator before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Keep people and pets out of the work area. Stop machine if anyone enters the work area.
- If you hit an object, stop the aerator, shut off the engine and inspect it. Make repairs before you operate. Keep aerator properly maintained and in good working order.
- DO NOT leave aerator unattended when it is running.
- Only operate during daylight or with good artificial light.
- DO NOT let anyone, especially children, ride on machine.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

Be Familiar With The Work Area

- Identify locations of buried irrigation and electrical cables.
- Identify areas on greens where there is little or no room for turning aerator at end of a pass.
- Have a plan for aerating the green before beginning.

OPERATING

Avoid Tipping

- DO NOT operate where machine could slip or tip.
- Operate aerator up and down a hill - not across. Be careful when you change direction on a slope.



Wear Appropriate Clothing

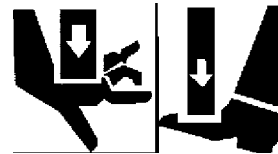
- Wear close fitting clothing and safety equipment appropriate for the job.
- Wear safety glasses and safety shoes to prevent unnecessary injury.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.



Avoid Injury From Moving Parts

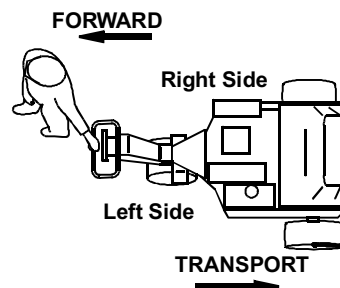
Keep hands, feet, clothing and other objects away from moving parts.

Do not attempt to remove any obstruction from tine area while aerator is in motion.



Travel Direction

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward.



OPERATING

Operating Tips

Training:

- Read the operator manual before operating the aerator to learn safe operating procedures.
- Practice before operating the aerator for the first time is critical to quality performance.
- Practice in an open field to become familiar with speed controls to allow for proper hole spacing and hole quality.

Around Greens and Teeboxes:

<p>IMPORTANT: When making turns, ALWAYS RAISE the aeration head first before turning.</p>
--

- Survey the green before aerating. Remove all debris before aerating.
- Plan your direction to minimize turning and maneuvering around hazards at the end of a pass.
- Make the initial pass across the center of the green and work your way to the outside.
- Maintain consistent spacing while aerating a green by selecting a marking reference before starting.
- DO NOT make sharp turns. Raise aeration head out of ground to turn at the end of pass.

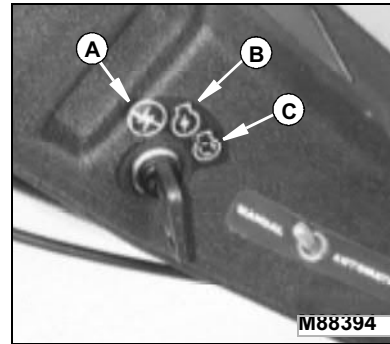
General Operating Practice:

- If engine begins to labor or slow down when operating the aerator in hard soil or going uphill, raise the aeration head slightly until the engine regains its speed.
- Wait to aerate if the soil is too hard and compacted. Aerate after rain or watering to achieve best results.
- Always carry extra tines and tools to replace a tine if it breaks while you are aerating.

OPERATING

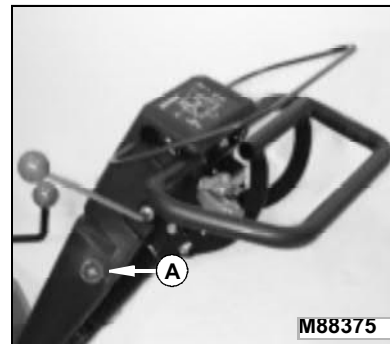
Using Key Switch

1. Turn the key to the “ON” position (B) to allow the aeration head to be raised or lowered without the engine running.
2. Turn the key to “START” position (C) to start the aerator.
3. Turn the key to the “OFF” position (A) to stop engine or after manually using the “AUTO/MANUAL” switch.



Using Choke Lever

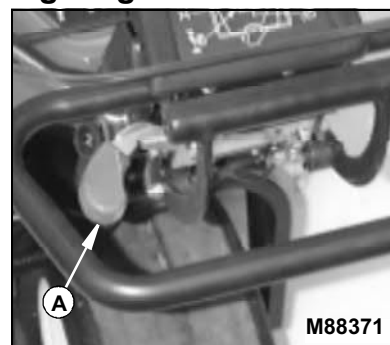
1. Pull choke lever (A) out for the CHOKE position when starting a cold engine.
2. After engine has started, push choke lever in completely.



Using Throttle Lever

NOTE: Adjust throttle lever depending on ground contour and condition of green.

1. PUSH lever (A) down to INCREASE engine speed.
2. PULL lever (A) up to DECREASE engine speed.

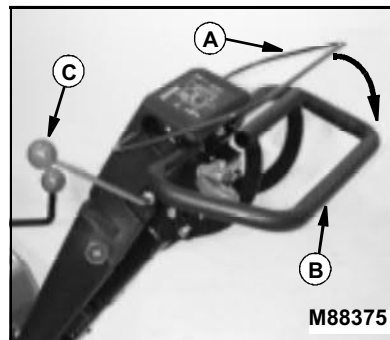


OPERATING

Using Operator Presence Bail

IMPORTANT: Raise the aeration head completely before releasing the bail. The aeration head will continue to operate if not raised before bail is released. Releasing the operator presence bail **ONLY** stops the **FORWARD** and **REVERSE** travel of the machine.

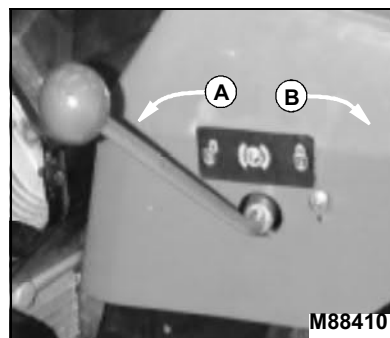
1. The operator presence bail (A) permits **ENGAGEMENT** of the drive clutch (C) when squeezed to the handlebar (B).
2. Hold the operator presence bail to the handlebar to allow **FORWARD** or **REVERSE** motion of the aerator.



Using Parking Brake

IMPORTANT: Disengage parking brake before engaging clutch lever to begin forward motion. Alarm will sound if travel clutch is engaged while parking brake is engaged. Damage to brake will occur if machine travels with brake engaged.

- Engage the parking brake by rotating the lever toward the operator station (B).
- Disengage the parking brake by rotating the lever toward the engine (A).



OPERATING

Using Travel Clutch Lever

IMPORTANT: Disengage parking brake before engaging clutch lever to begin forward motion. Alarm will sound if travel clutch is engaged while parking brake is engaged. Damage to brake will occur if machine travels with brake engaged.

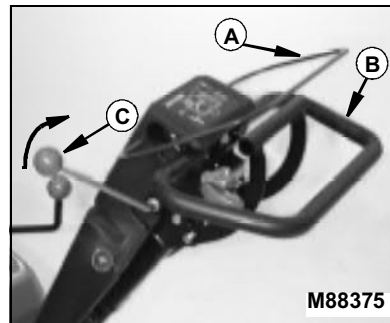


CAUTION: Help avoid injury to operator and bystanders. Begin machine travel with throttle at low RPM to prevent sudden, quick movement. Adjust RPM after machine begins travel.

1. Start engine. Position throttle for low engine RPM.
2. Release parking brake.
3. Select travel gear. (See Selecting Travel Gears in this section.)
4. Hold bail (A) to handlebar (B).
5. Pull clutch lever (C) toward the operator to ENGAGE drive clutch.

NOTE: If alarm sounds when clutch lever is engaged, raise aerating head completely and release bail to stop travel.

Disengage park brake before continuing.



6. Machine will begin travel motion.
7. Adjust throttle to higher engine RPM as necessary.
8. Release bail (A) to STOP travel. Travel clutch lever MUST return to DISENGAGE position. Machine MUST STOP travel motion.

OPERATING

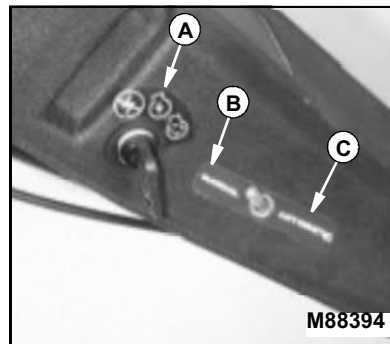
Using Aerator Engagement Lever



CAUTION: Avoid injury. Keep hands out of tine area while engine is running. With the engine running, tining action will begin as soon as the coring head begins to lower.

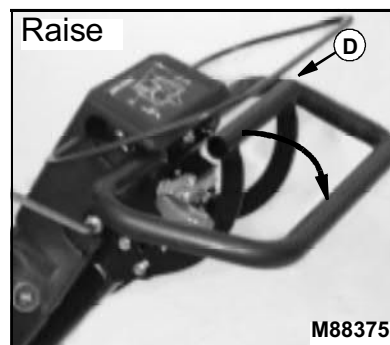
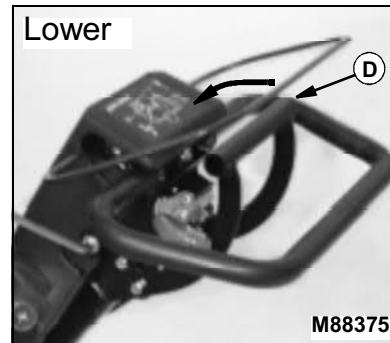
• To raise or lower aeration head manually:

1. Put manual/auto switch in MANUAL position (B).
2. Turn key to ON position (A).
3. To lower: push and hold the aerator engagement lever (D) in the direction of the aeration head.
4. To raise: pull and hold the aerator engagement lever (D) to the handlebar.



• To raise or lower aeration head automatically during aeration operation:

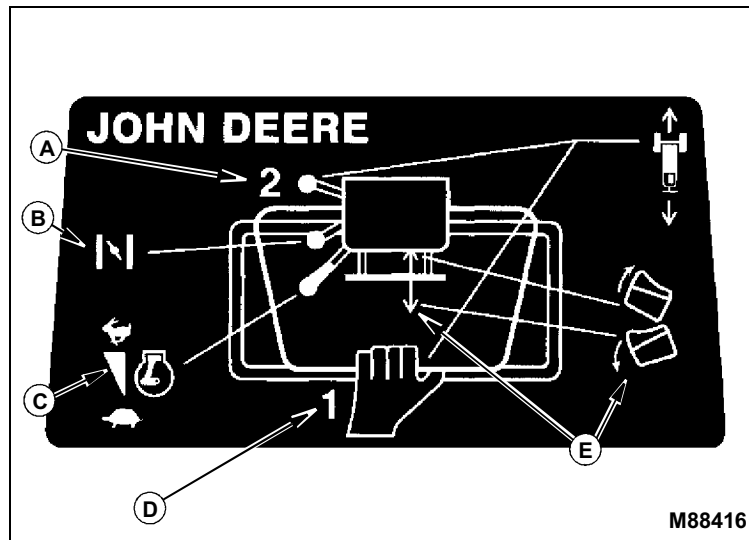
1. Start engine.
2. Put manual/auto switch to AUTO position (C).
3. To lower and engage aeration head: push the aerator engagement lever (D) in the direction of the aeration head and release.
4. To raise and disengage aeration head: pull the aerator engagement lever (D) toward the handlebar and release.



OPERATING

Using Operator Controls Decal

NOTE: The operator controls decal is located on the steering handle console. It is designed to be a quick reference for operators to understand basic control functions.



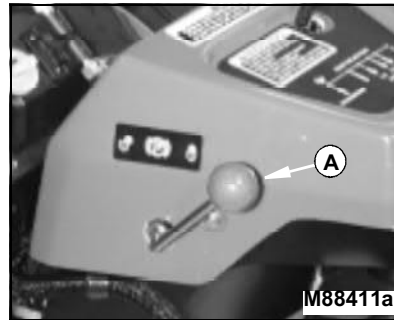
1. Figures 1 and 2 (D and A) indicate that the **operator bail (D)** must be held down **and** the **travel clutch lever (A)** must be pulled toward the operator to **engage machine travel** in either direction.
2. Key (B) indicates the location of the choke.
3. Key (C) indicates the location of the throttle.
4. Key (E) indicates the location of the aerator engagement lever and the UP and DOWN aeration head movement in relation to engagement lever movement.

OPERATING

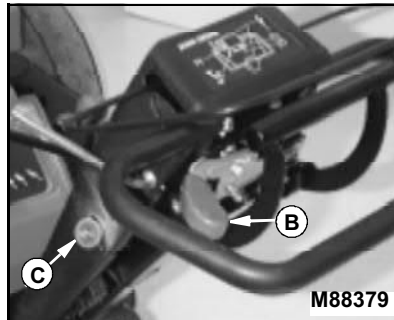
Starting The Engine

IMPORTANT: Aeration head **MUST** be fully raised before starting engine or machine travel. Tining action will begin if head is not fully raised.

1. Set parking brake (A) in LOCKED position.
2. Raise the aeration head completely.



3. Pull choke (C) out to set choke at CLOSED position.
4. Set throttle lever (B) midway between SLOW and FAST positions.



IMPORTANT: Do not crank the engine continuously for more than 10 seconds at a time. If the engine does not start, wait 60 seconds before attempting to start the engine again.

5. Turn key to ON position.
6. **For a warm engine:** move choke to OPEN position after engine has started.
7. **For a cold engine:** Gradually return the choke to the OPEN position after allowing the engine to warm up.

OPERATING

Stopping The Engine

IMPORTANT: Raise the aeration head completely before stopping the FORWARD travel of the machine. Tining action will continue after machine has stopped FORWARD travel unless the aeration head is raised completely.

1. Pull aerator engagement lever (B) towards operator and release to raise aeration head and disengage drive belt. Tines should RAISE COMPLETELY AND STOP coring action.

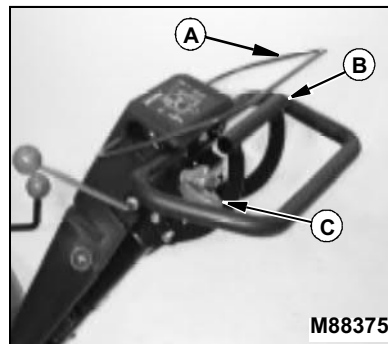
2. Release bail (A) to stop machine forward motion.

3. Set the throttle lever (C) midway between SLOW and FAST positions and allow the engine to run for a minimum of 15 seconds.

4. Pull throttle lever all the way up (toward operator).

5. Turn key to OFF position.

6. Set parking brake (D).





Suggest:

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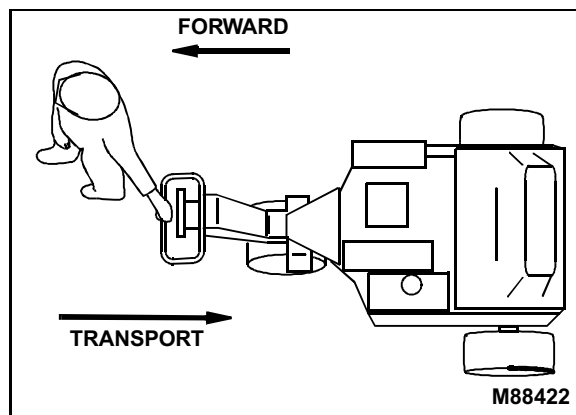
to download the complete manual.

Thank you so much for reading

OPERATING

Selecting Travel Gears

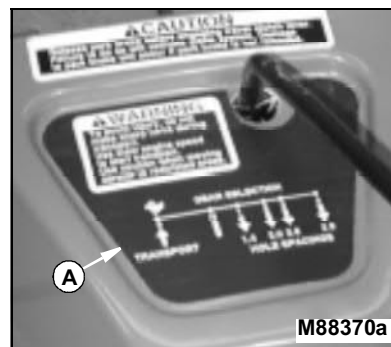
IMPORTANT: When a FORWARD speed is selected, the machine moves in the direction of the operator station.
When in TRANSPORT, the aerator moves away from the operator station.



CAUTION: Avoid injury. Transport at low throttle. Raise aeration head completely before moving machine in TRANSPORT gear. Tining action will occur if head is not raised completely.

1. Position the gear selector on "5" to move the aerator in TRANSPORT, away from the operator station. TRANSPORT is used to travel to worksites.

2. Position the gear selector on "1" through "4" to select a FORWARD aerating speed. Refer to the decal (A) or see Selecting Travel Speed in this section to determine proper operating speed for the current operating conditions.



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