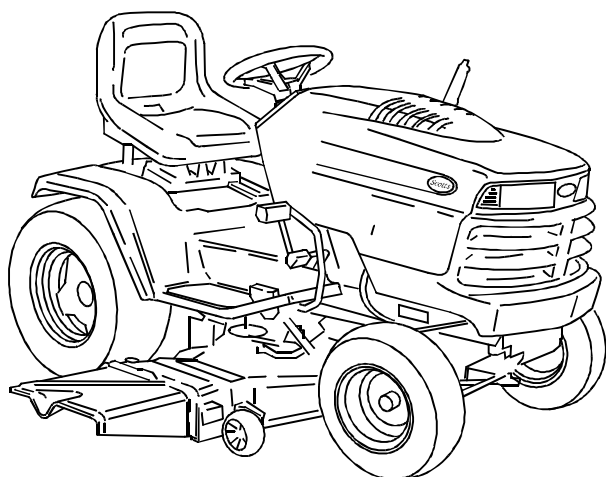


S2048 Yard Tractor and S2554 Garden Tractor

Serial No. (020,001-)



OPERATOR'S MANUAL



OMM141709 H9

North American
Litho in U.S.A.
English

INTRODUCTION

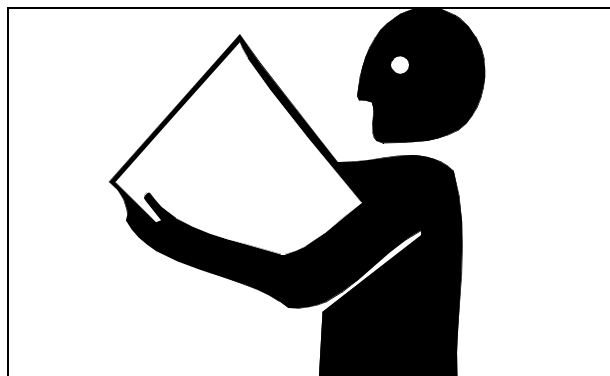
THANK YOU for purchasing a **Scotts** product.

Read this manual and your attachment manual 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:

DEALER PHONE:

TRACTOR SERIAL NUMBER (A),
(Located on rear of tractor):

ENGINE SERIAL NUMBER (B),
(Located on engine):

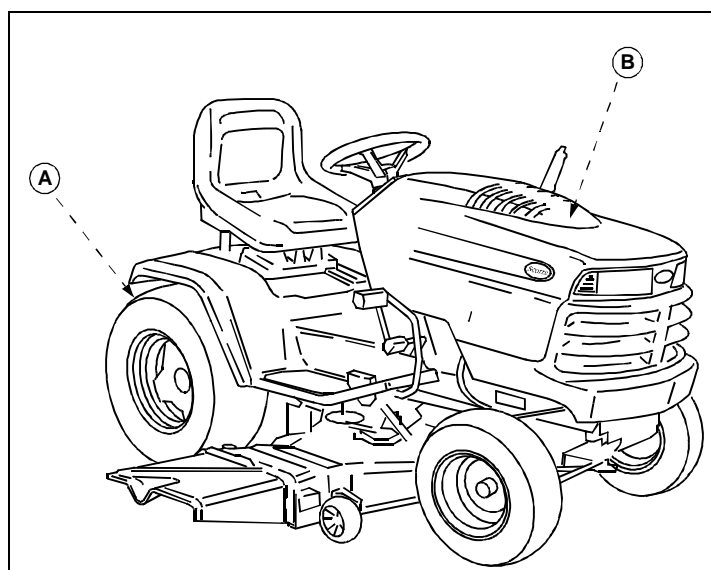


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ASSEMBLY

Identify Parts

Clear Plastic Bag Contains:

- Scotts Operator's Manual
- Safety Video
- Warranty Cards

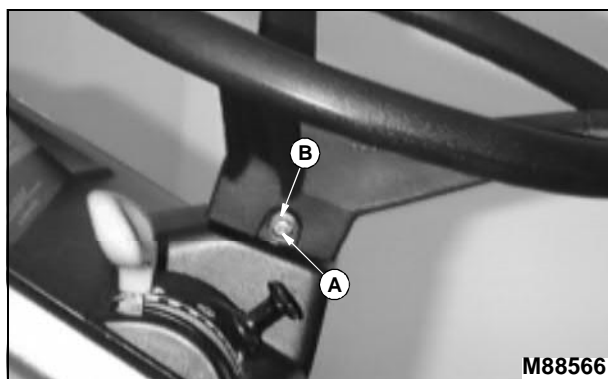
Bag of Parts Contains:

- Hardware for Steering Wheel
- Hardware for Battery Cables
- Key Chain
- Padded Key

NOTE: *There is an extra ignition key strapped to one of the seat suspension springs.*

Install Steering Wheel

1. Put front wheels in the straight forward position.
2. Lubricate the steering shaft.
3. Install steering wheel with logo in the upright position.
4. Install shoulder bolt (A). Drive bolt in until head of bolt contacts steering wheel.
5. Install washer and nut (B).
6. Tighten lock nut until it is snug. Do not tighten lock nut to pull washer or head of bolt into steering wheel.



ASSEMBLY

Add Electrolyte To Battery

CAUTION: Avoid injury, battery acid is a poison and could cause burns. Avoid contact with skin, eyes and clothes. **DO NOT** drink battery fluid. Battery gasses can explode. Keep cigarettes, sparks, and flames away from battery.

IMPORTANT: Avoid machine damage from spilled electrolyte. Battery should be removed from tractor before filling it with electrolyte.

1. Use only battery-grade sulfuric acid electrolyte with 1.265 specific gravity.

NOTE: *Some batteries may have shipping caps remove and discard these caps*

2. Remove battery caps.

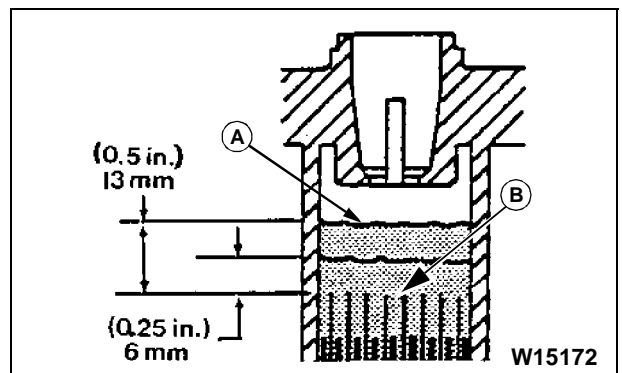
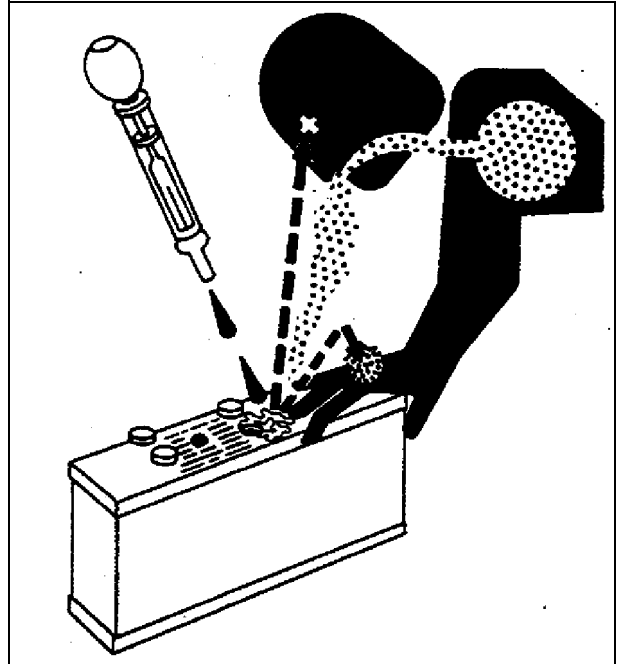
3. Slowly add electrolyte (A) until plates (B) are just covered.

CAUTION: Avoid injury from acid burns. After battery is activated, the gases in the battery are explosive. Keep sparks and flames away from battery, especially when charging battery.

4. Charge battery at 15 amps for 10 minutes or 7 amps for 30 minutes. **DO NOT** exceed recommended charging rate. If electrolyte starts to boil over, decrease charging rate. (See Charging Battery in the Service Electrical section.)

5. After charging, add electrolyte until level is 6 - 13 mm (0.25 - 0.5 in.) above plates.

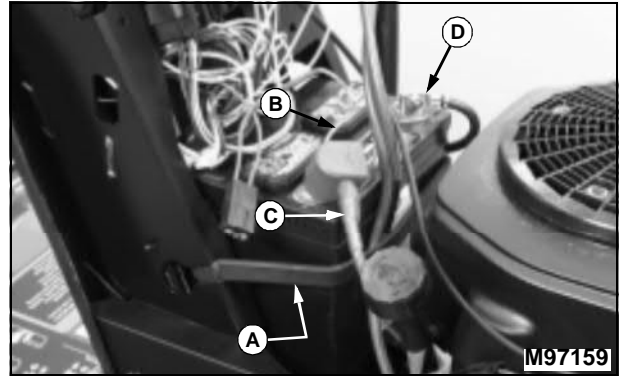
6. Install vent caps.



ASSEMBLY

Install and Connect Battery

1. Install battery and secure with hold-down strap (A)
2. Remove and discard the RED positive (+) protective cap from the positive (+) battery terminal.
3. Connect blue harness wire (B) and RED positive (+) cable (C) to battery. Apply petroleum jelly or silicone spray to terminal to prevent corrosion. Make sure connection is tight. Install the red terminal cover.
4. Remove and discard the BLACK (-) protective cap from the negative battery terminal.
5. Connect black negative (-) cable (D) to battery. Apply petroleum jelly or silicone spray to terminal to prevent corrosion. Make sure connection is tight.

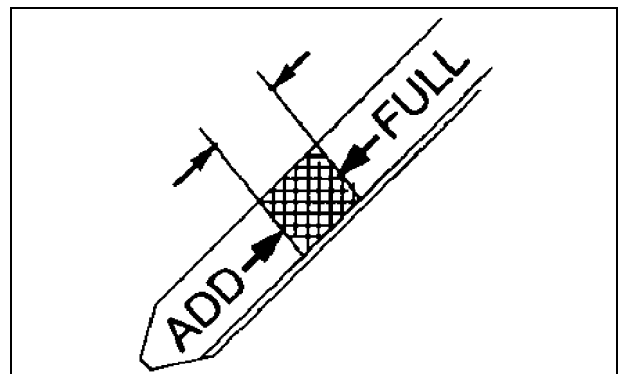
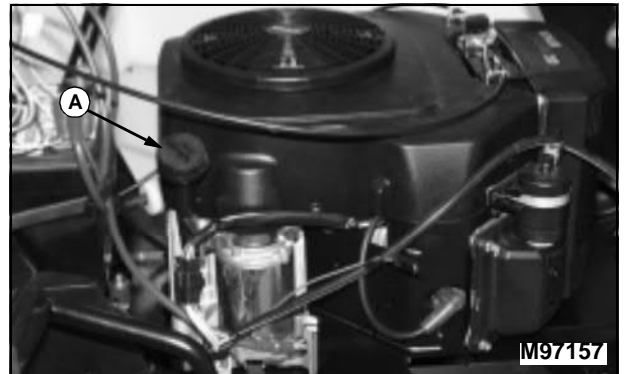


Check Engine Oil

IMPORTANT: Avoid machine damage. DO NOT run engine if oil level is below ADD mark.

Picture Note: Model S2048 used for photo purposes.

1. Lift hood.
2. Remove dipstick (A). Wipe with clean cloth.
3. Insert the dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube.
4. Remove dipstick to check oil level.
5. Oil must be between ADD and FULL marks.
6. Add oil to FULL mark if necessary. DO NOT overfill. (See Engine Oil in Service Engine section.)
7. Install and tighten dipstick. Lower hood.



ASSEMBLY

Break-In Electric PTO Clutch

Picture Note: Model S2554 used for photo purposes.

1. Start engine and push throttle lever (A) up to full throttle (r) position.
2. With no load on mower, ENGAGE PTO (B) and allow mower to run for 10 seconds.
3. DISENGAGE PTO and wait 10 seconds.
4. Repeat Steps 2 and 3 for 12-15 cycles.
5. PTO clutch is now properly burnished.



Check Machine Safety System

Perform safety system check to make sure the electronic safety interlock circuit is functioning properly. Perform all six Tests. (See Testing Safety System in the Operating section.)

ASSEMBLY

Checking Tire Pressure

- ⚠ CAUTION:** Avoid injury. Explosive separation of a tire and rim parts can cause serious injury or death:
- Do not attempt to mount a tire without the proper equipment and experience to perform the job.
 - Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.
 - When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly.
 - Check tires for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



1. Check tires for damage.
2. Check tire pressure with an accurate gauge.
3. Add or remove air, if necessary:

Tire Size	Pressure
Model S2048: Front = 16 x 6.5 x 8 Rear = 23 x 9.50 x 12	97 kPa (14 psi) 83 kPa (12 psi)
Models S2554: Front = 16 x 7.5 x 8 Rear = 24 x 12 x 12	83 kPa (12 psi) 69 kPa (10 psi)

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

DANGER: ROTATING BLADES CUT OFF ARMS AND LEGS

- Do not mow when children or others are around
- Do not mow in reverse
- Look down and behind before and while backing
- Never carry children

WARNING: AVOID SERIOUS INJURY OR DEATH

- Drive up and down slopes, not across
- Avoid sudden turns
- If machine stops going uphill, stop blade and back down slowly
- Keep safety devices (guards, shields, and switches) in place and working
- Read operator's manual
- When leaving machine:
 - Stop engine
 - Set park brake
 - Remove key



SAFETY SIGNS

WARNING: LOADED SPRING

Picture Note: One decal on each side of tractor frame.

LOCK LIFT LEVER FORWARD BEFORE CHANGING ATTACHMENTS



BATTERY LABELS - DANGER / POISON

SHIELD EYES.

EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.

NO

- SPARKS
- FLAMES
- SMOKING

SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS

KEEP OUT OF THE REACH OF CHILDREN. DO NOT TIP. KEEP VENT CAPS TIGHT AND LEVEL.

FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.

CAUTION - FOR SAFE JUMP STARTING FOLLOW INSTRUCTIONS IN VEHICLE OWNERS MANUAL. IF NOT AVAILABLE SEEK SERVICE ASSISTANCE



SAFETY SIGNS

DANGER: ROTATING BLADE

DO NOT PUT HANDS OR FEET UNDER OR INTO MOWER WHEN ENGINE IS RUNNING

THROWN OBJECTS

BEFORE MOWING, CLEAR AREA OF OBJECTS THAT MAY BE THROWN BY BLADE

DO NOT OPERATE MOWER WITHOUT DISCHARGE CHUTE OR ENTIRE GRASS CATCHER IN PLACE



DANGER: ROTATING BLADE

Picture Note: Located on Left-Hand side of deck.

DO NOT PUT HANDS OR FEET UNDER OR INTO MOWER WHEN ENGINE IS RUNNING



Certification Label

This OPEI label on your mower indicates that this model has been certified by an independent laboratory for compliance with American National Standard B-71.1-1998, "Safety Specifications" for Power Lawn Mowers, Lawn and Garden Tractors, and Lawn Tractors.

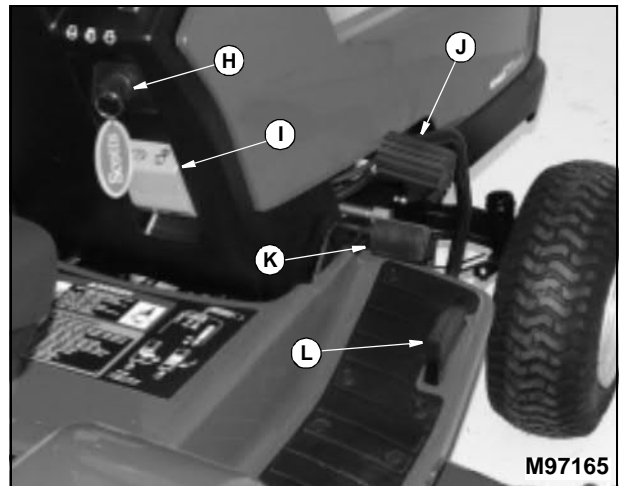
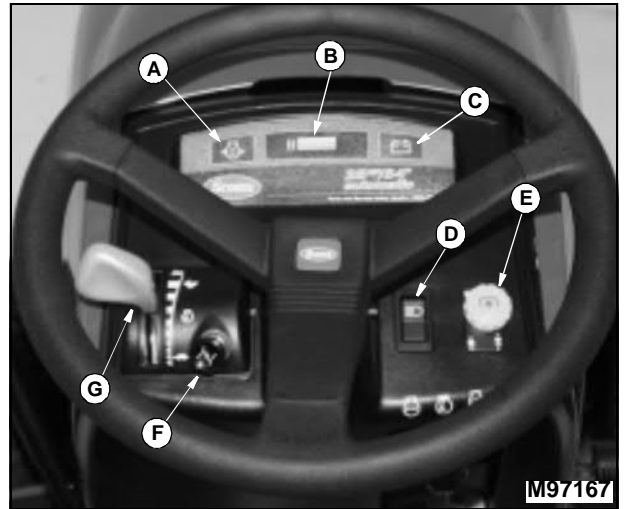


CONTROLS

Controls

Picture Note: Model S2554 used for photo purposes.

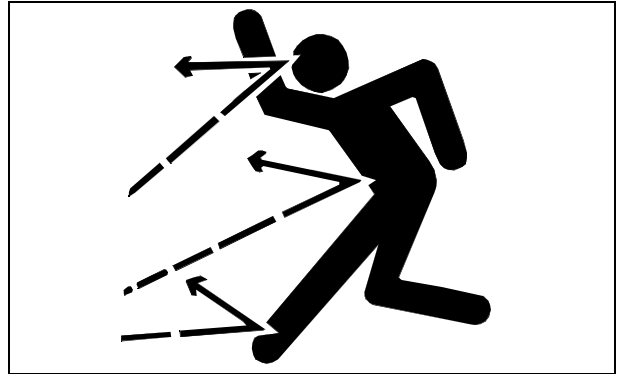
- A - Engine Oil Pressure Light (Model S2554 Only)
- B - Hour Meter (Model S2554 Only)
- C - Battery Discharge Light
- D - Light Switch
- E - PTO Switch/RIO Switch
- F - Choke Knob
- G - Throttle Lever
- H - Key Switch
- I - Park Brake Lever
- J - Brake Pedal
- K - Forward Travel Pedal
- L - Reverse Travel Pedal
- M - Mower Deck Lift Lever
- N - Cut Height Adjustment Lever



OPERATING MACHINE

Operate Safely

- In addition to reading your Operator's Manual, view your Mowing Safety Video.
- Check brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine 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.
- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine and attachments properly maintained and in good working order.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Be careful of traffic when operating near or crossing roadways.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.



Park Safely

- Stop machine on a level surface, not on a slope.
- Disengage mower blades.
- Lower attachments to the ground.
- Engage park brake.
- STOP engine.
- Remove key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

OPERATING MACHINE

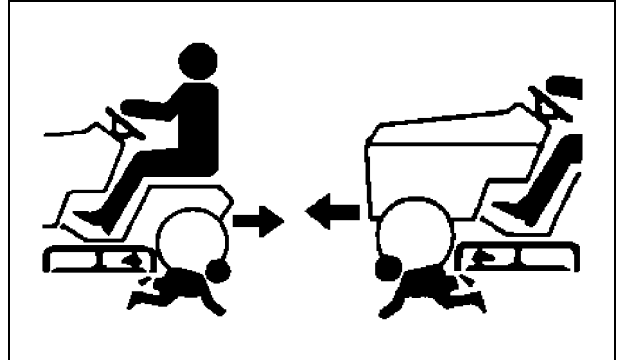
Rotating Blades are Dangerous - Protect Children and Prevent Accidents

PROTECT CHILDREN:

- Never assume that children will remain where you last saw them. Children are attracted to mowing activity, stay alert to the presence of children.
- Keep children in the house when you are operating the machine.
- Turn machine off if a child enters the mowing area.
- Use extra care when you come to blind corners, shrubs, trees, or other objects that may block your vision.
- DO NOT let children or an untrained person operate the machine.
- DO NOT carry or let children ride on machine or any attachment. DO NOT tow children in a cart or trailer.

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

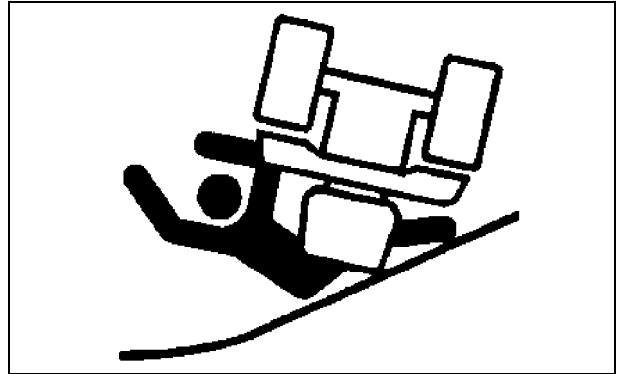
- Be alert at all times, drive forward carefully. People especially children can move quickly into the mowing area before you know it.
- Back carefully. Disengage mower blades and look behind the machine carefully, especially for children, before you back up.
- DO NOT mow in reverse unless it is absolutely necessary.
- Disengage mower blades when you are not mowing.
- DO NOT operate machine if you are under the influence of drugs or alcohol.



OPERATING MACHINE

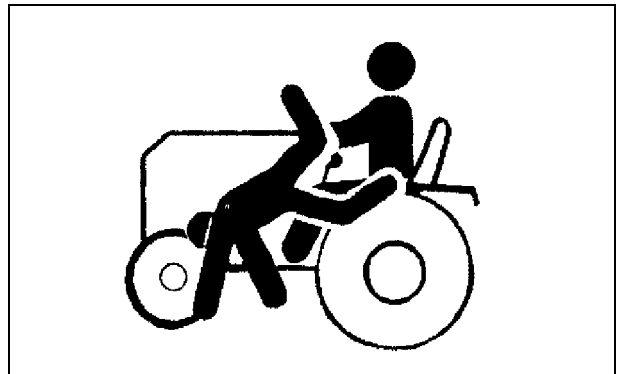
Avoid Tipping

- DO NOT drive where machine could slip or tip.
- Stay alert for holes and other hidden hazards in the terrain.
- Keep away from drop-offs.
- Slow down before you make a sharp turn or operate on a slope.
- When pulling loads or using heavy equipment, use only approved hitches, limit loads to those you can safely control, and use counterweights or wheel weights when required per this manual or your attachment manual.
- Drive up and down a hill—not across. Be careful when you change direction on a slope.
- DO NOT stop when going up hill or down hill. If machine stops going up hill, DISENGAGE mower blades and back down slowly.
- DO NOT mow wet grass. Reduced traction could cause sliding.
- DO NOT try to stabilize the machine by putting your foot on the ground.



Keep Riders Off

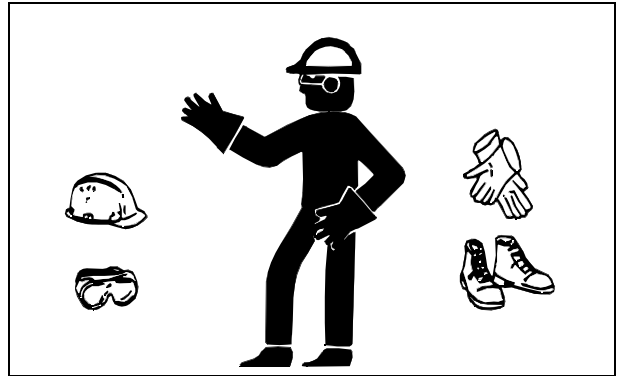
- Only allow the operator on the machine. Keep riders off.
- Riders on the machine or attachment may be struck by foreign objects or thrown off the machine causing serious injury.
- Riders obstruct the operator's view resulting in the machine being operated in an unsafe manner.



OPERATING MACHINE

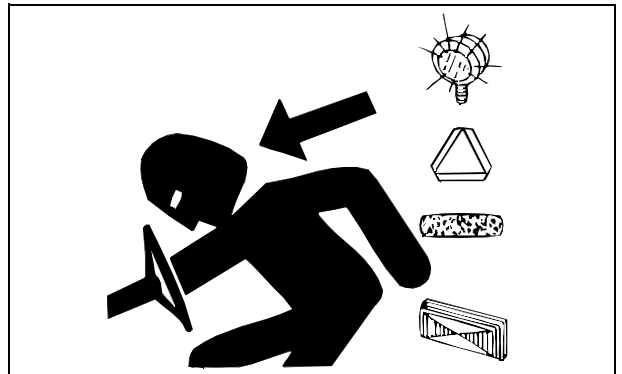
Wear Appropriate Clothing

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



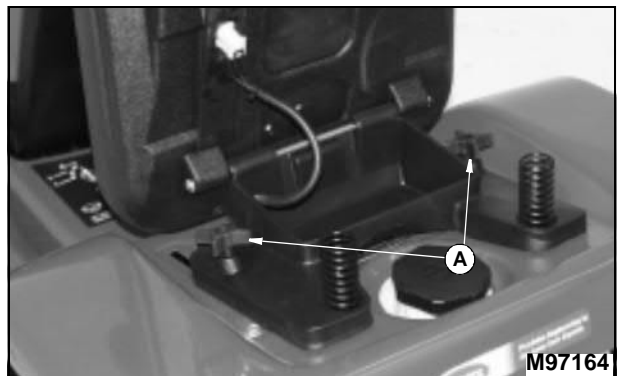
Transport Safely

- Use safety lights and devices. Slow moving machines when driven on public roads are hard to see, especially at night. Avoid personal injury or death resulting from a collision with a vehicle.
- Whenever driving on public roads, use flashing warning lights and turn signals according to local regulations. Extra flashing warning lights may need to be installed.



Adjusting Seat

1. Tip seat forward and loosen two knobs (A) to slide seat assembly forward or rearward to most comfortable OPERATOR position.
2. Tighten knobs after adjustment to keep seat in place.



OPERATING MACHINE

Using the Park Brake

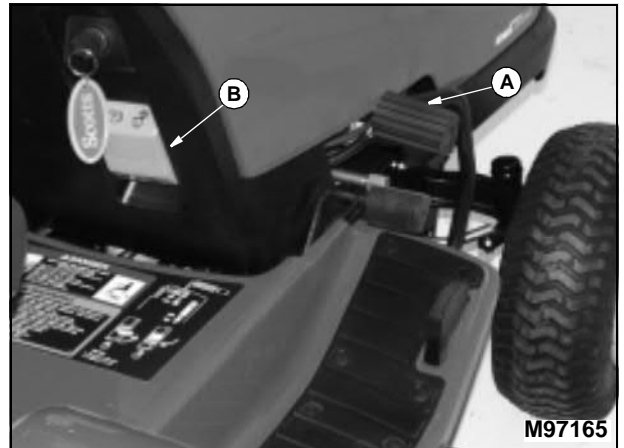
CAUTION: Avoid injury. The machine may begin to move when engine is shut off and park brake is not engaged. To avoid injury, always **LOCK** park brake before getting off tractor or leaving tractor unattended.

LOCKING PARK BRAKE:

1. Push brake pedal (A) all the way down.
2. Lift park brake lever (B) up.
3. Release pedal and park brake lever. Pedal should stay down and park brake lever should stay **LOCKED** in UP position.

UNLOCKING PARK BRAKE:

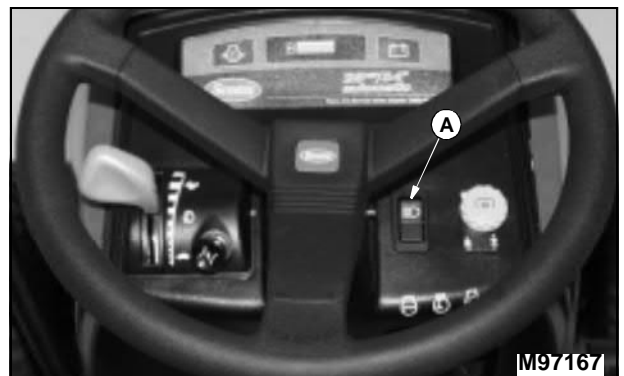
1. Push and hold brake pedal (A) down.
2. Push park brake lever (B) down to **UNLOCK** park brake.
3. Release pedal.



Using Headlights

Picture Note: Model S2554 used for photo purposes.

- Push top of light switch (A) to turn headlights ON.
Push bottom of light switch to turn headlights OFF.



OPERATING MACHINE

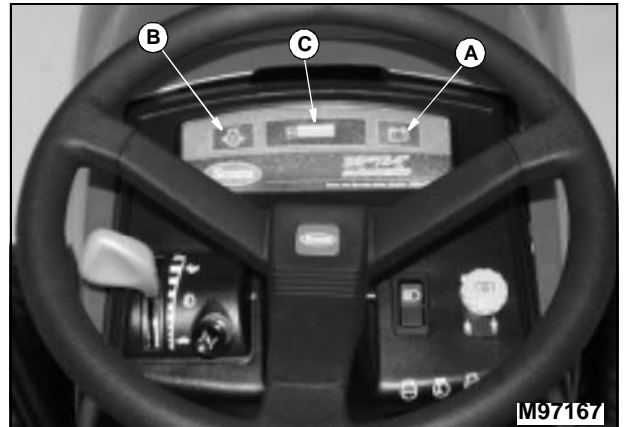
Checking Indicator Lights and Hour Meter

Picture Note: Model S2554 used for photo purposes.

- (🔋) BATTERY DISCHARGE light (A) should go out when throttle lever is moved to the HIGH IDLE/Mowing (🏡) position. The voltage light may remain on for several minutes while the battery is being charged.
- (🛢️) OIL PRESSURE light (B), on Model S2554 only, will come on when engine starts and should go out within 5 seconds.

If indicator lights stay on longer than given time, STOP engine.

- HOUR METER (C), on Model S2554 only, shows the number of hours the engine has run. To display hours, key must be in the "ON" position. Check the hour meter daily to see what services need to be done.



Starting Engine



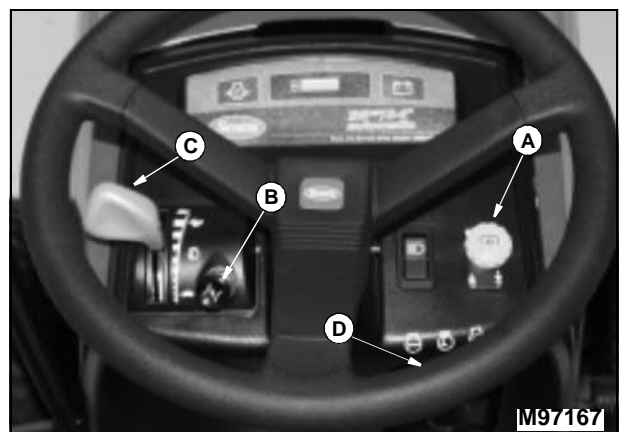
CAUTION: Avoid injury. Engine exhaust fumes can cause sickness or death.

- If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.
- If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

IMPORTANT: Avoid machine damage. Do not operate starter more than 20 seconds at a time, or you may damage it. If engine does not start: Wait two minutes before you try again. See Troubleshooting section.

Picture Note: Model S2554 used for photo purposes.

1. Lock the park brake or depress brake pedal.
2. Push PTO switch (A) down to DISENGAGE.
3. Pull choke knob (B) out to the ON (🏡) position.
4. Move throttle lever (C) to the HALF-SPEED (🏡) position.
5. Turn key (D) to START position.
6. When engine starts, release key to RUN position.





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OPERATING MACHINE

7. Check starting conditions:

- **If engine is COLD:** Gradually return the choke to the OFF position after the engine starts and warms up.
- **If engine is WARM:** Return choke to the OFF position as soon as the engine starts.

8. Let engine run for a couple of minutes to warm-up before operating machine.

Warming and Idling Engine

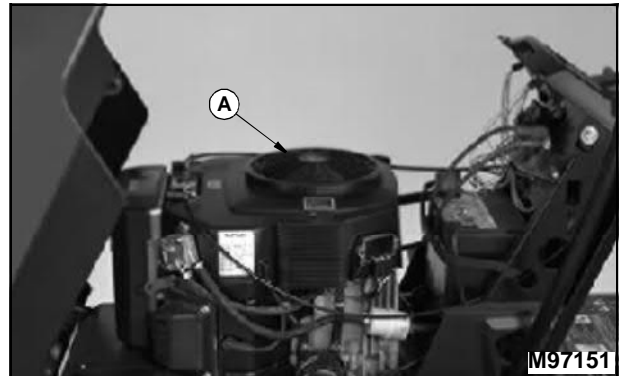
WARMING ENGINE:

1. Run Engine at half speed for 2–3 minutes.

IDLING ENGINE:

Picture Note: Model S2554 shown for photo purposes.

1. Engine is air-cooled and needs a large volume of air to keep cool. Keep air intake screen (A) on top of engine clean.
2. Avoid unnecessary engine idling.

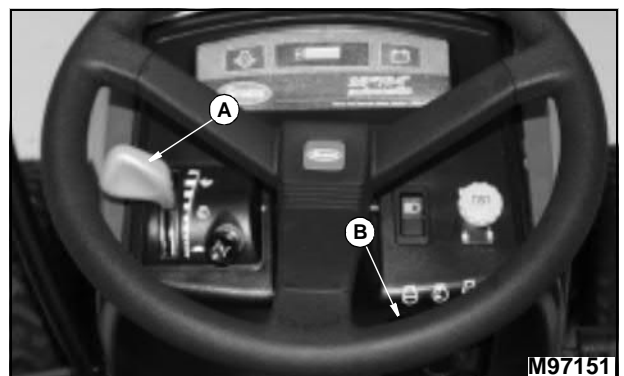


Stopping Engine

1. STOP tractor travel.

Picture Note: Model S2554 shown for photo purposes.

2. Move throttle lever (A) MIDWAY between slow (🐢) and fast (🐇) positions. Let the engine run a minimum of 15 seconds.
3. Turn key (B) to OFF position.
4. LOCK the park brake.
5. Remove key.



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