

INSTRUCTION BOOK

CUSTOMER MODEL: 552550

FACTORY MODEL: 312006x190A

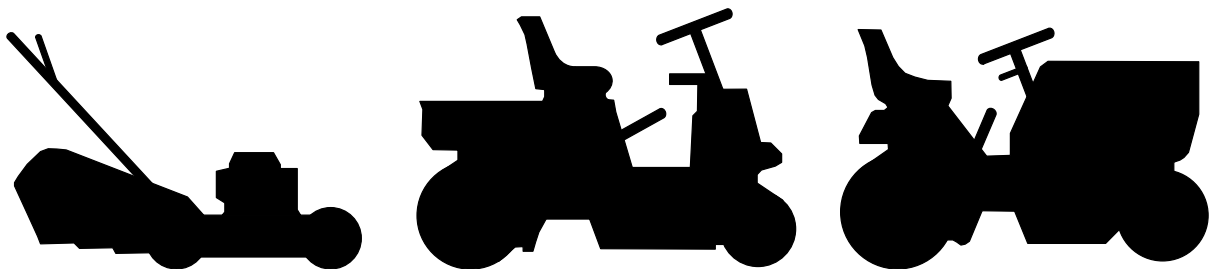
**Read and keep this book
for future reference. This book contains
important information on *SAFETY, PREPARATION,
OPERATION, AND MAINTENANCE.***

PRODUCT INFORMATION

**The owner must be certain that all
the product information is included with the unit.**

**This information includes
the INSTRUCTION BOOKS,
the REPLACEMENT PARTS and the WARRANTIES.**

**This information must be included to make sure state laws and other laws
are followed.**

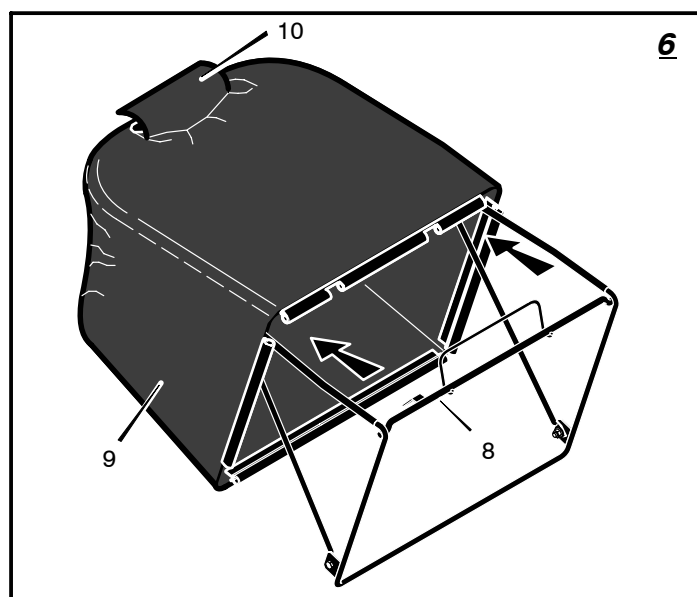
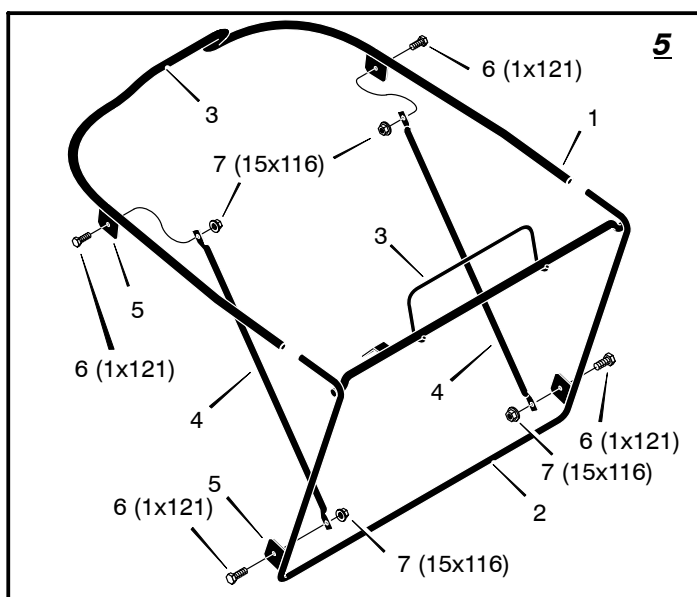
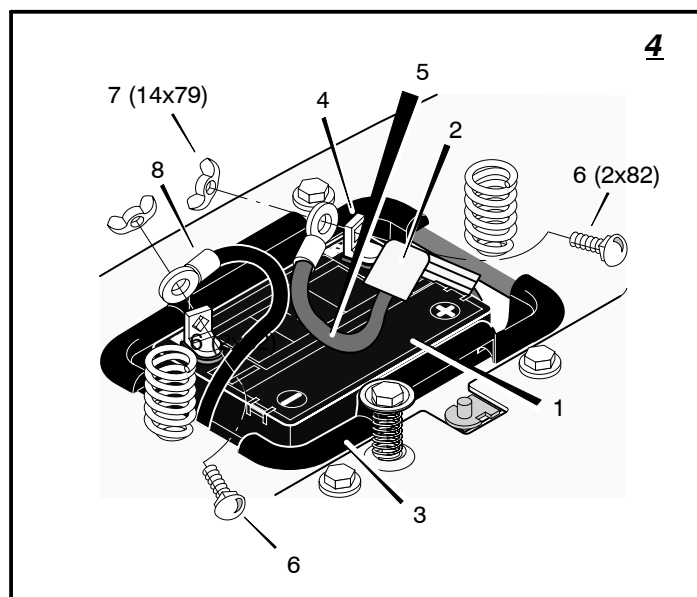
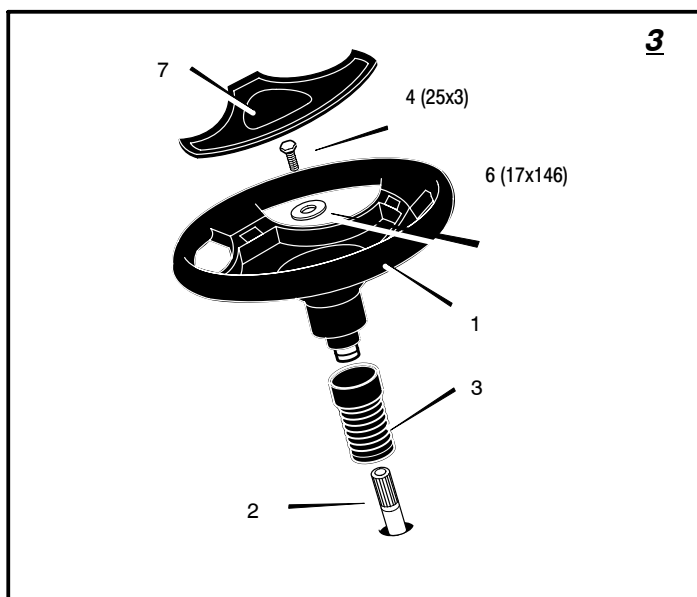
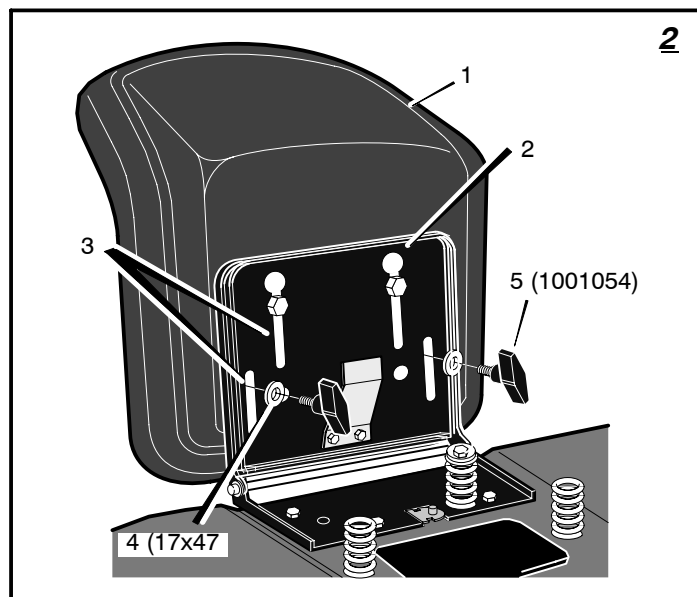
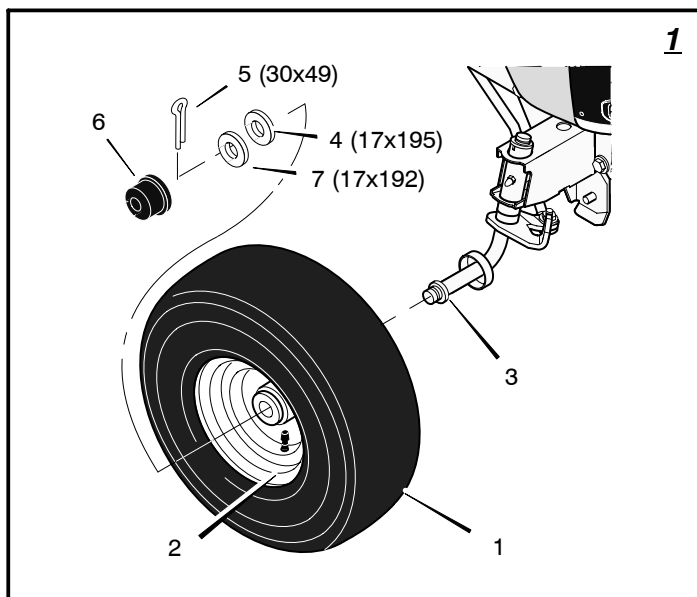


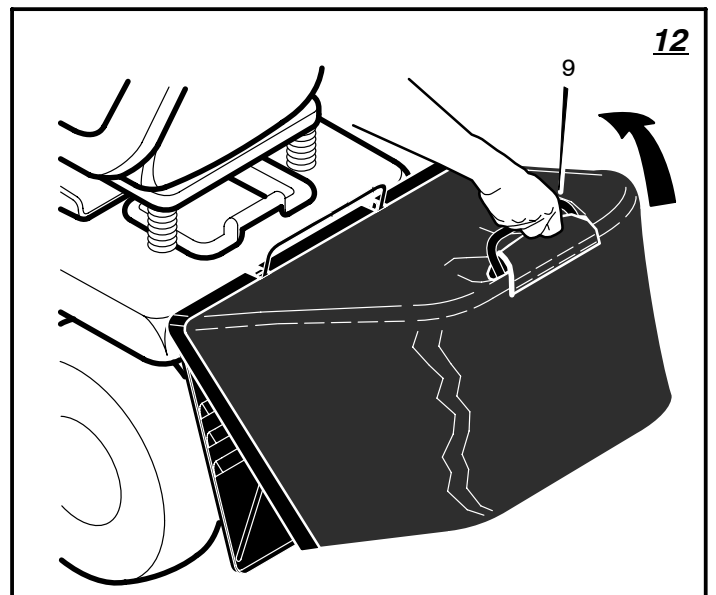
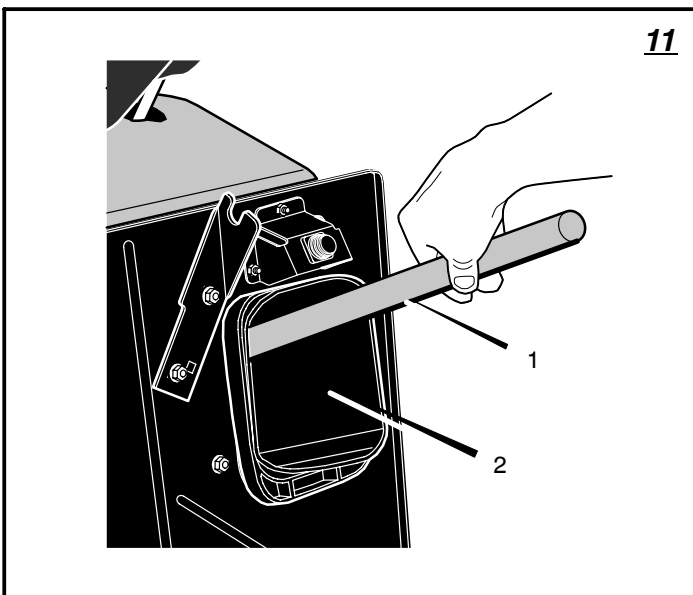
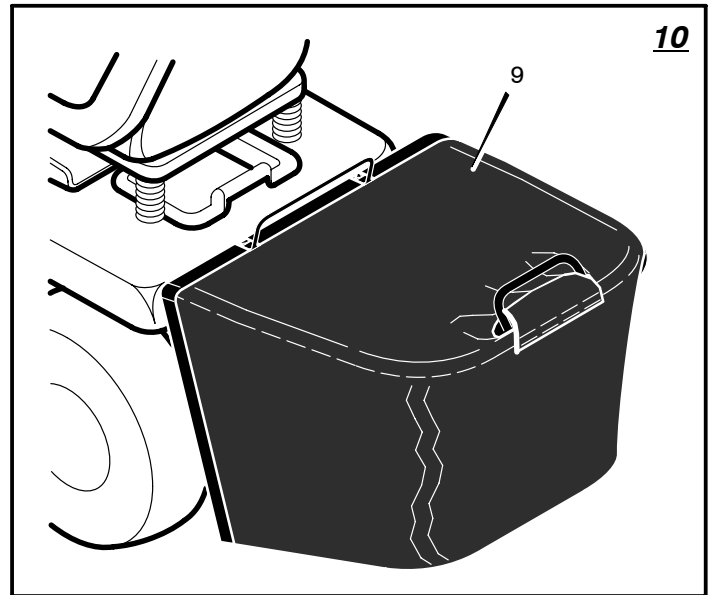
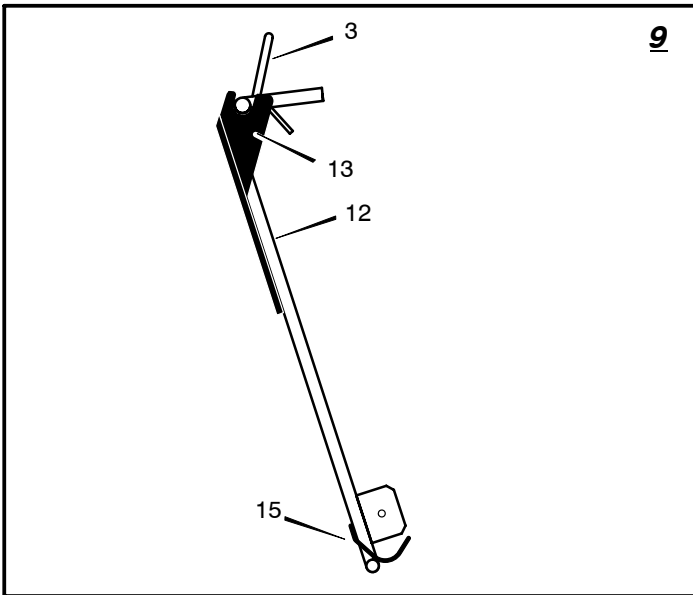
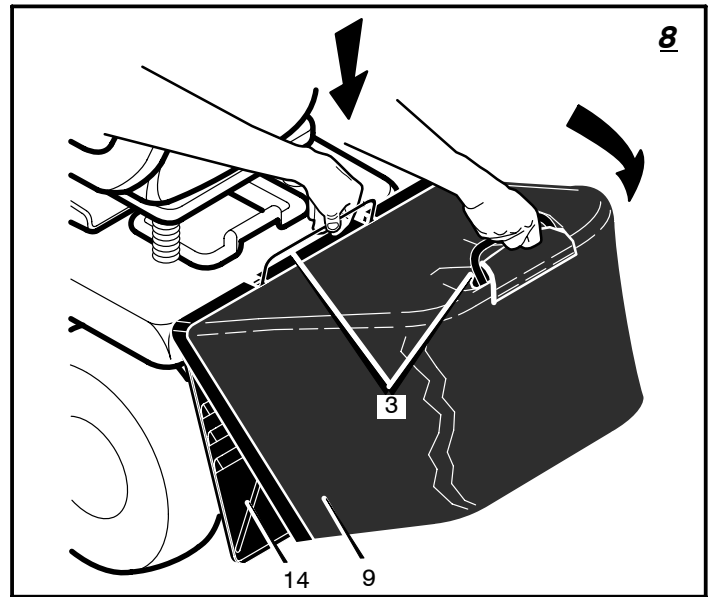
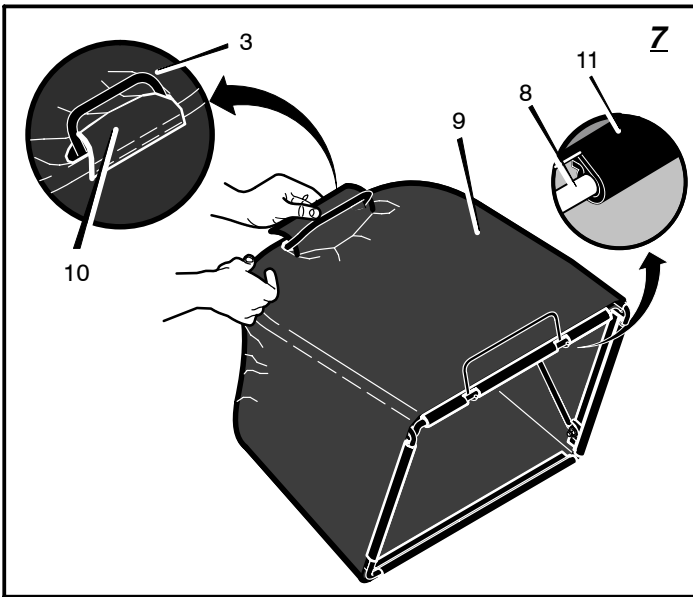
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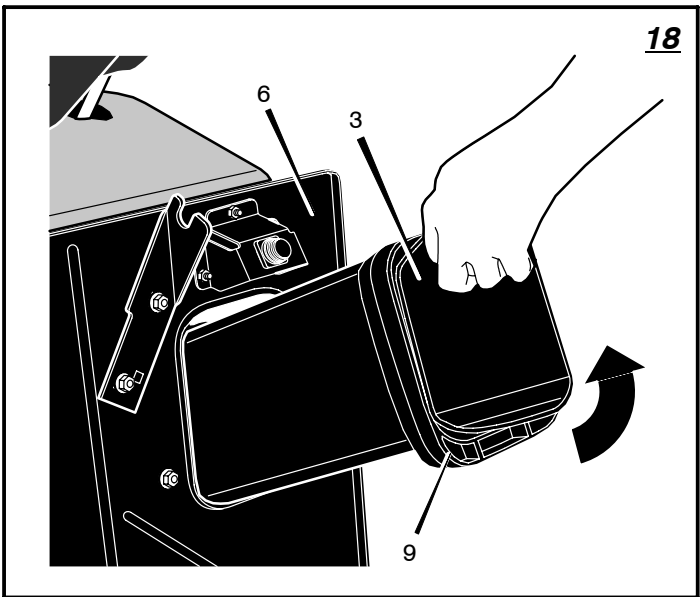
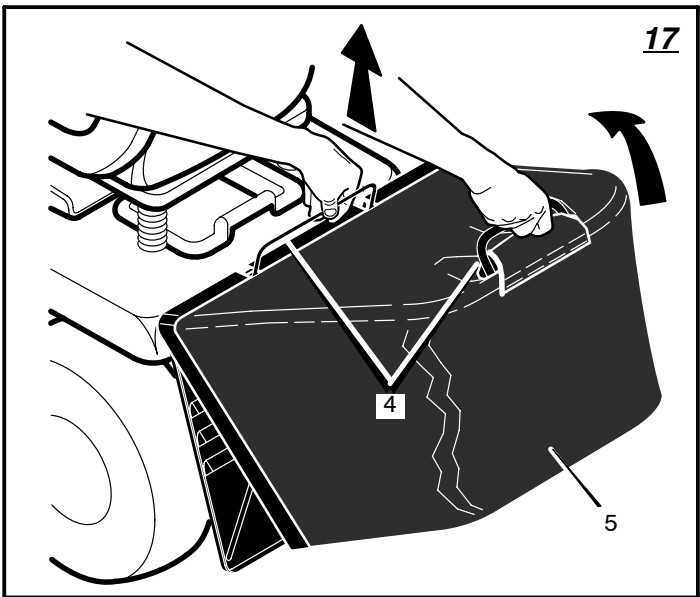
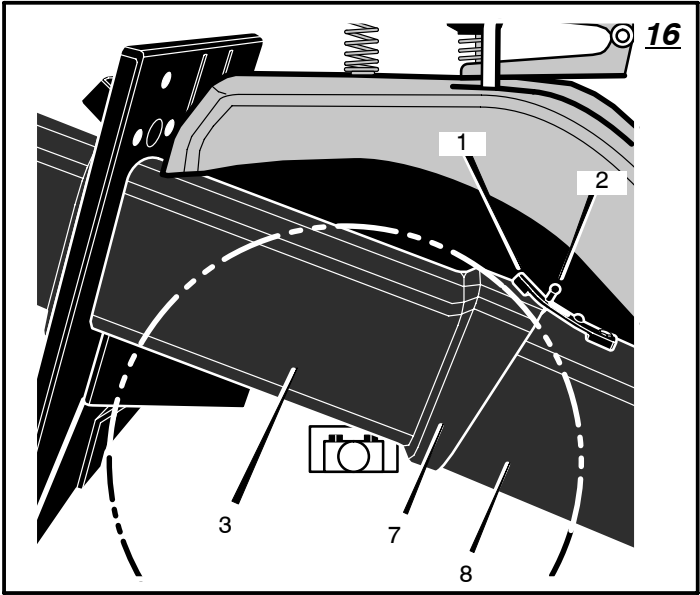
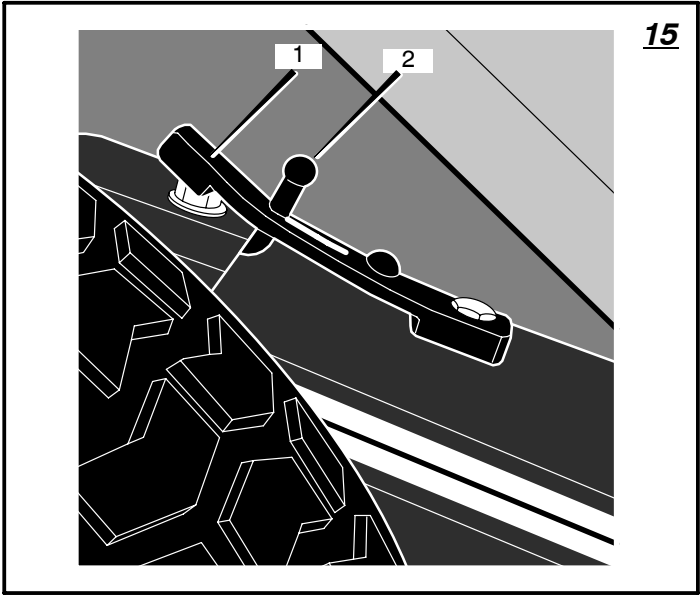
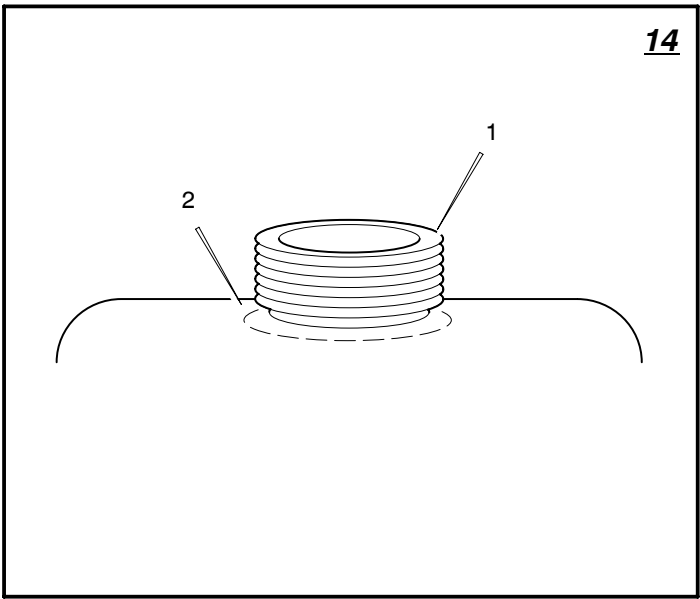
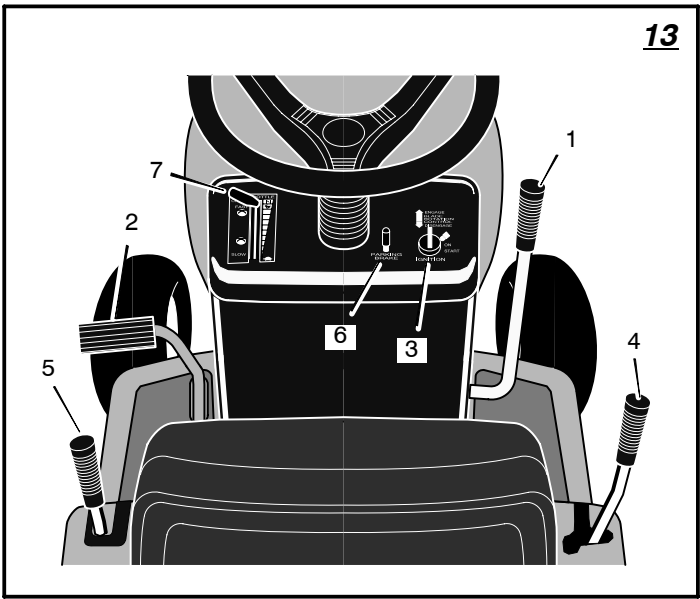
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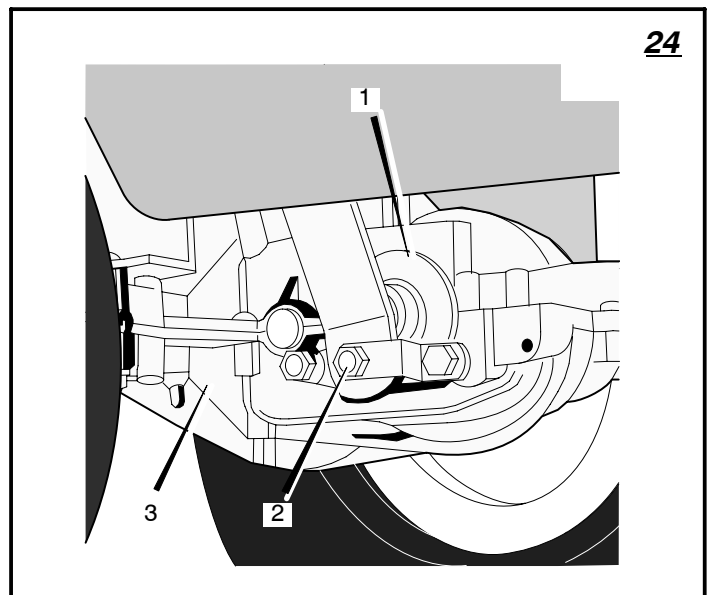
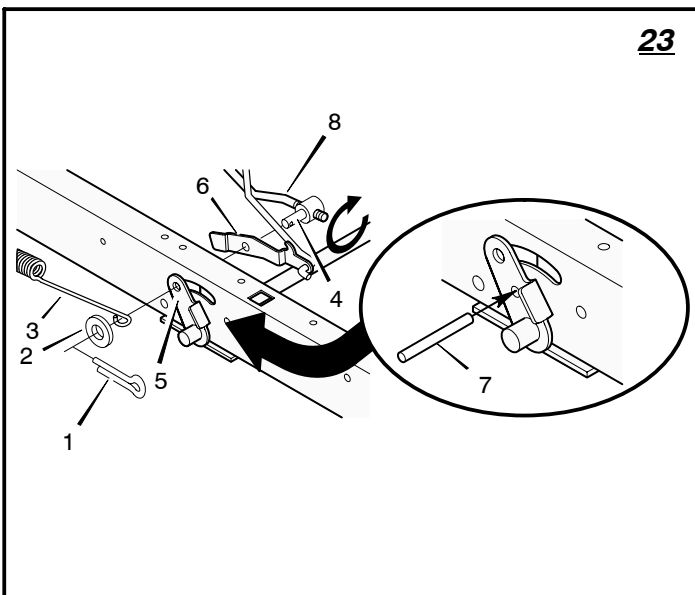
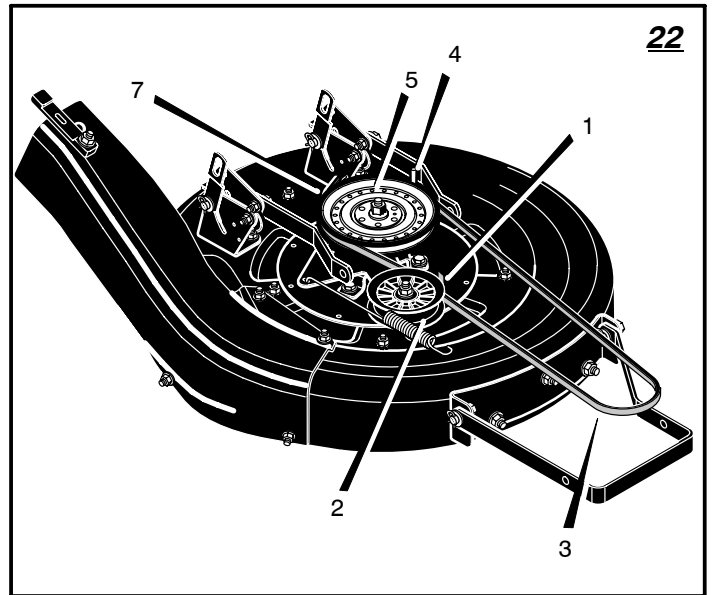
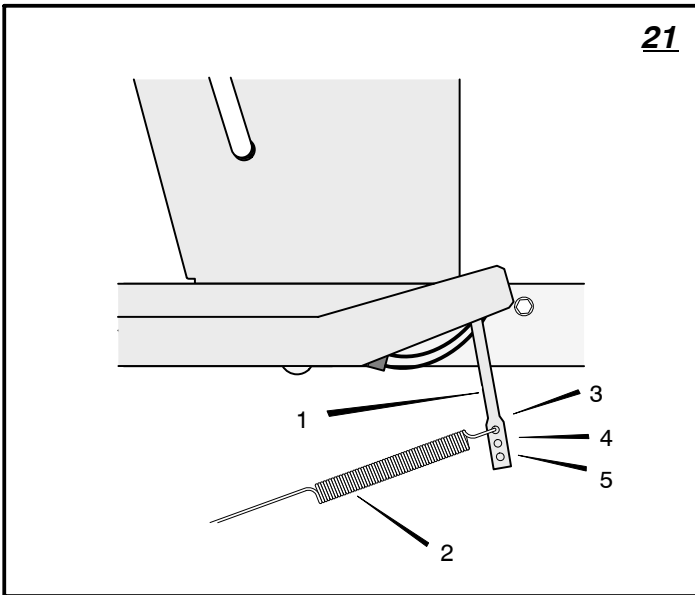
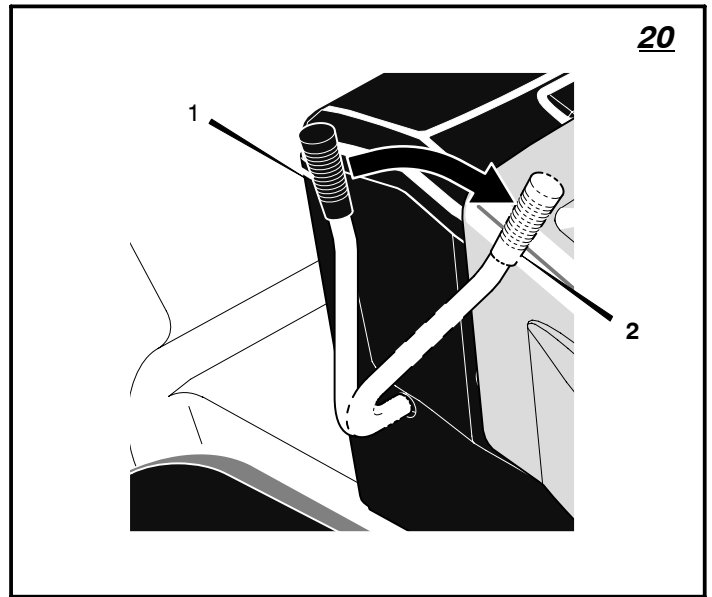
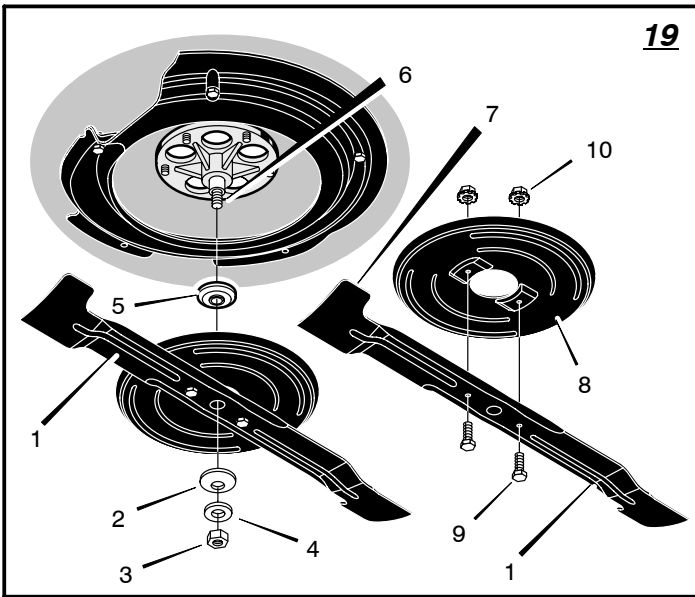
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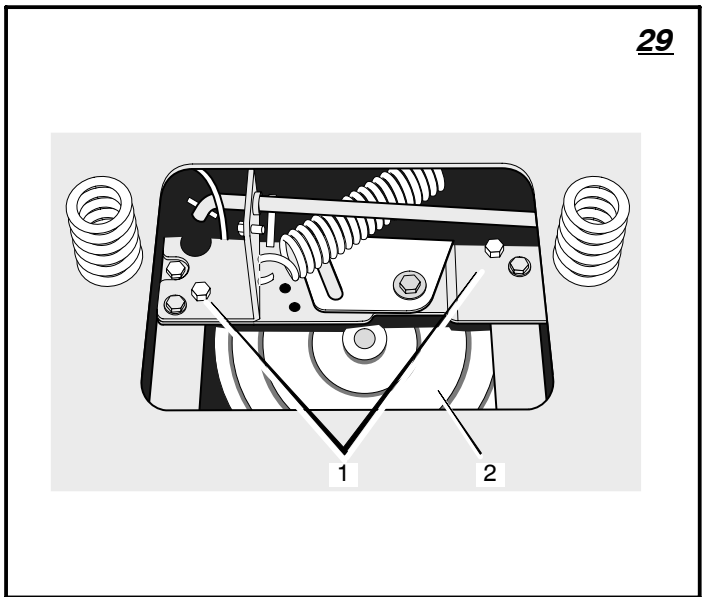
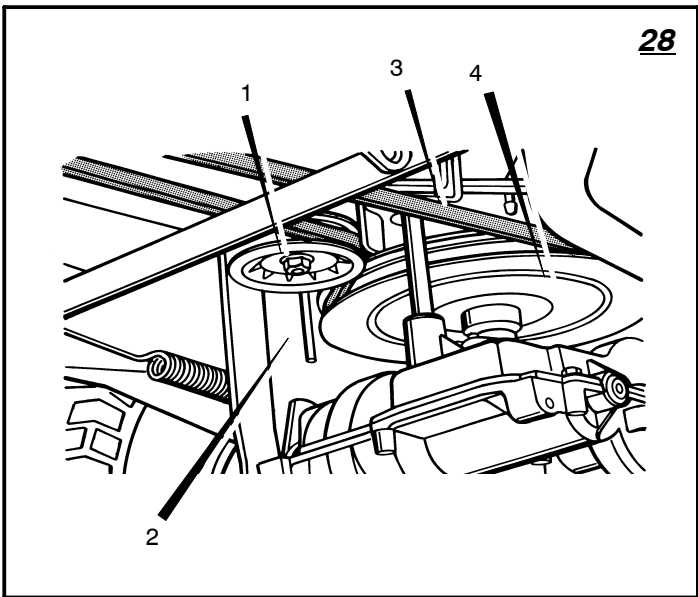
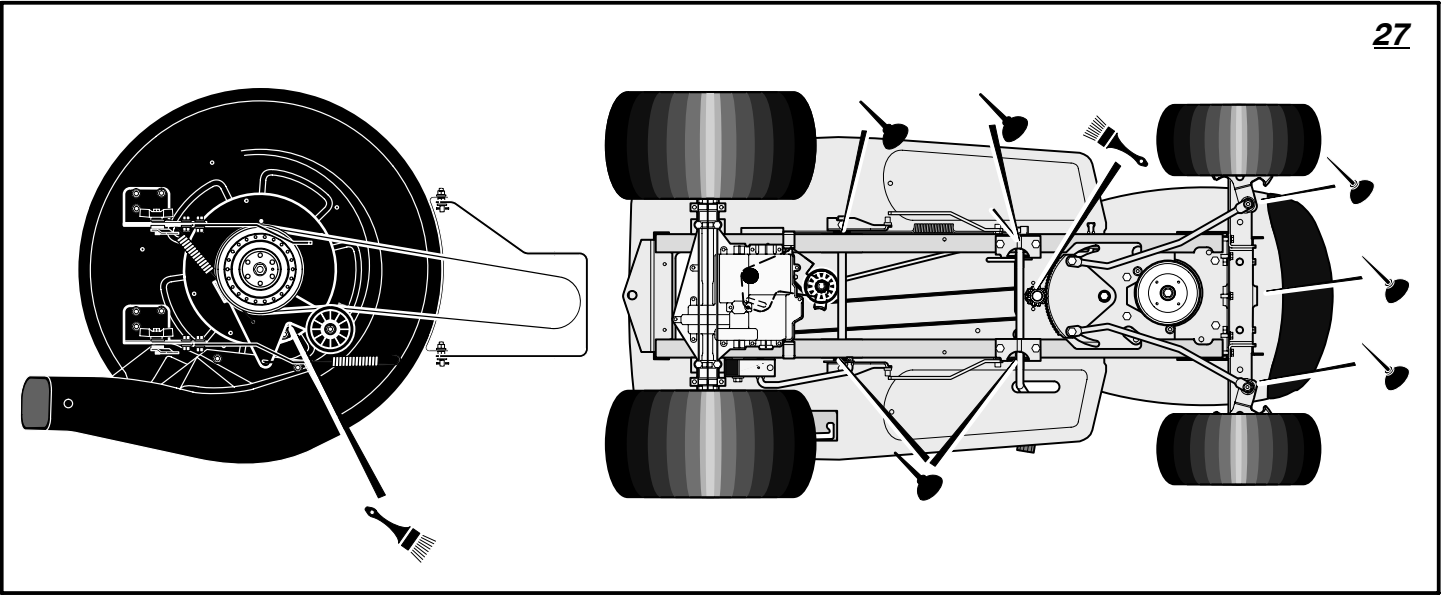
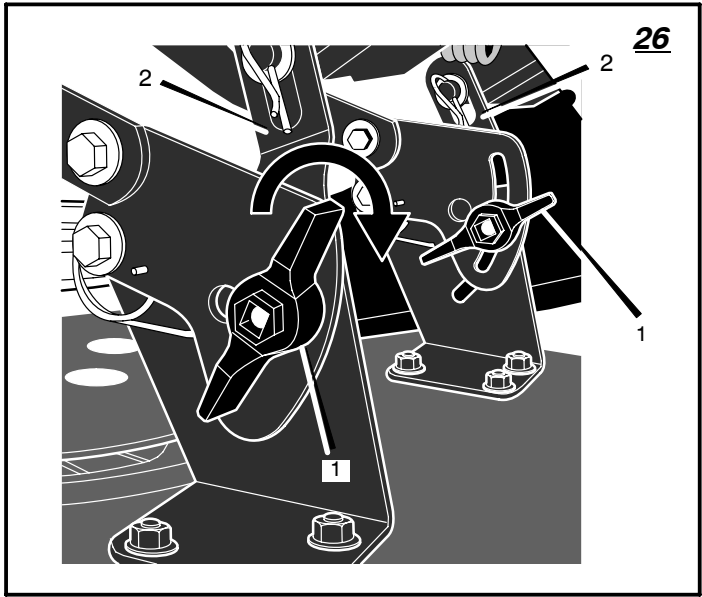
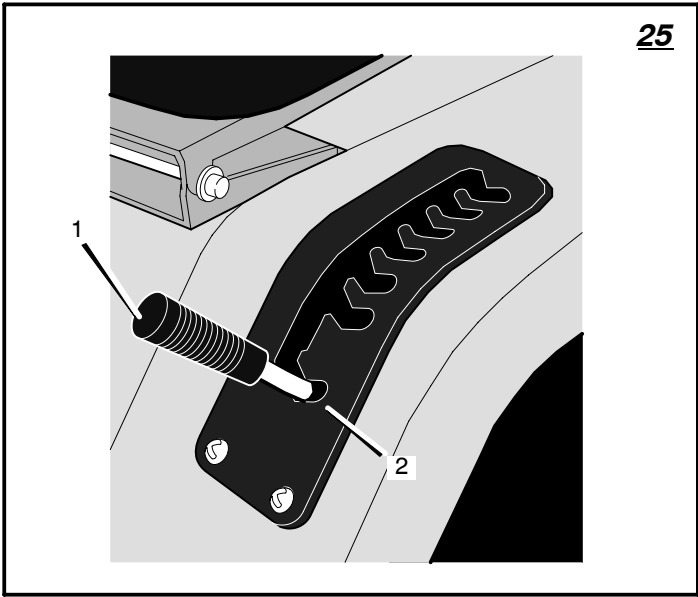
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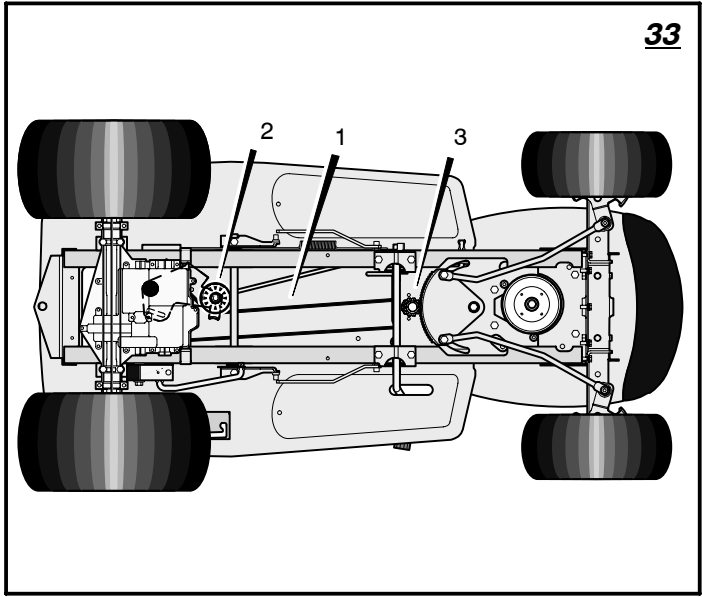
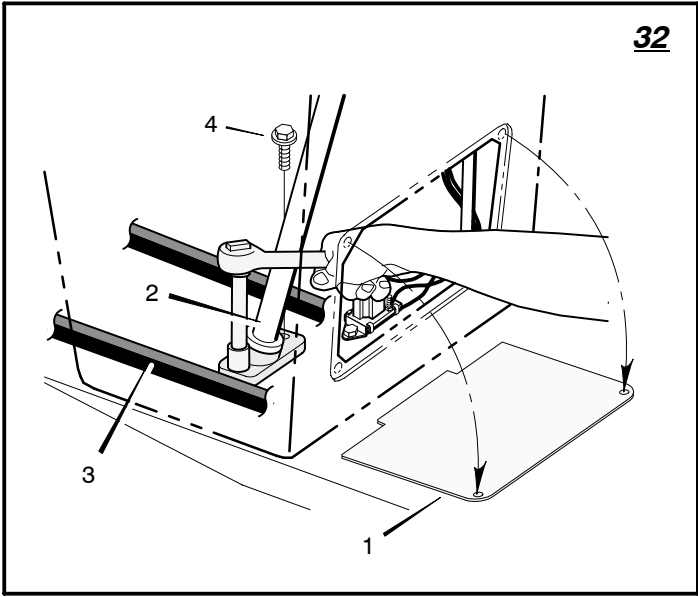
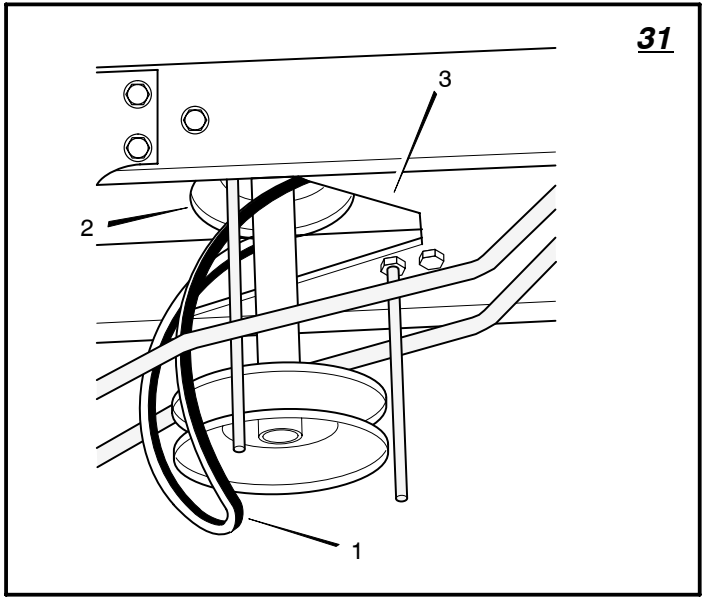
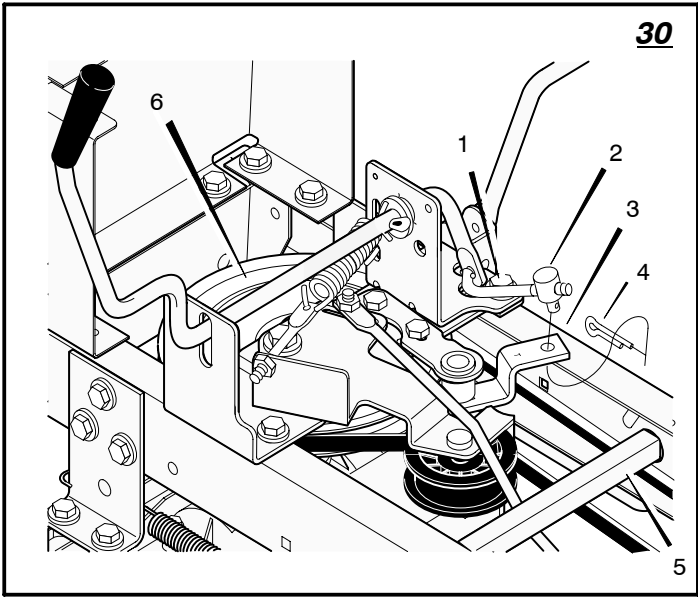


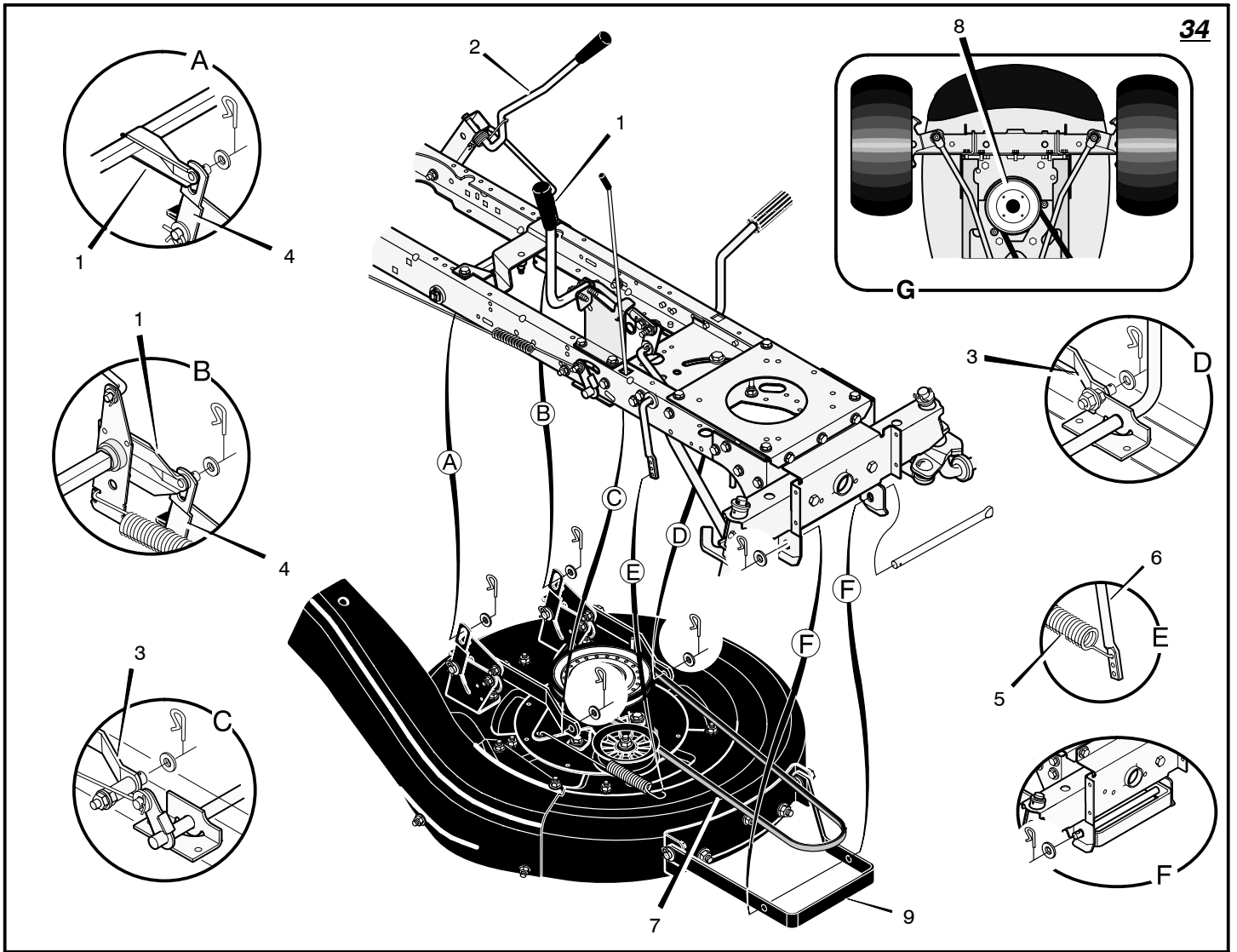


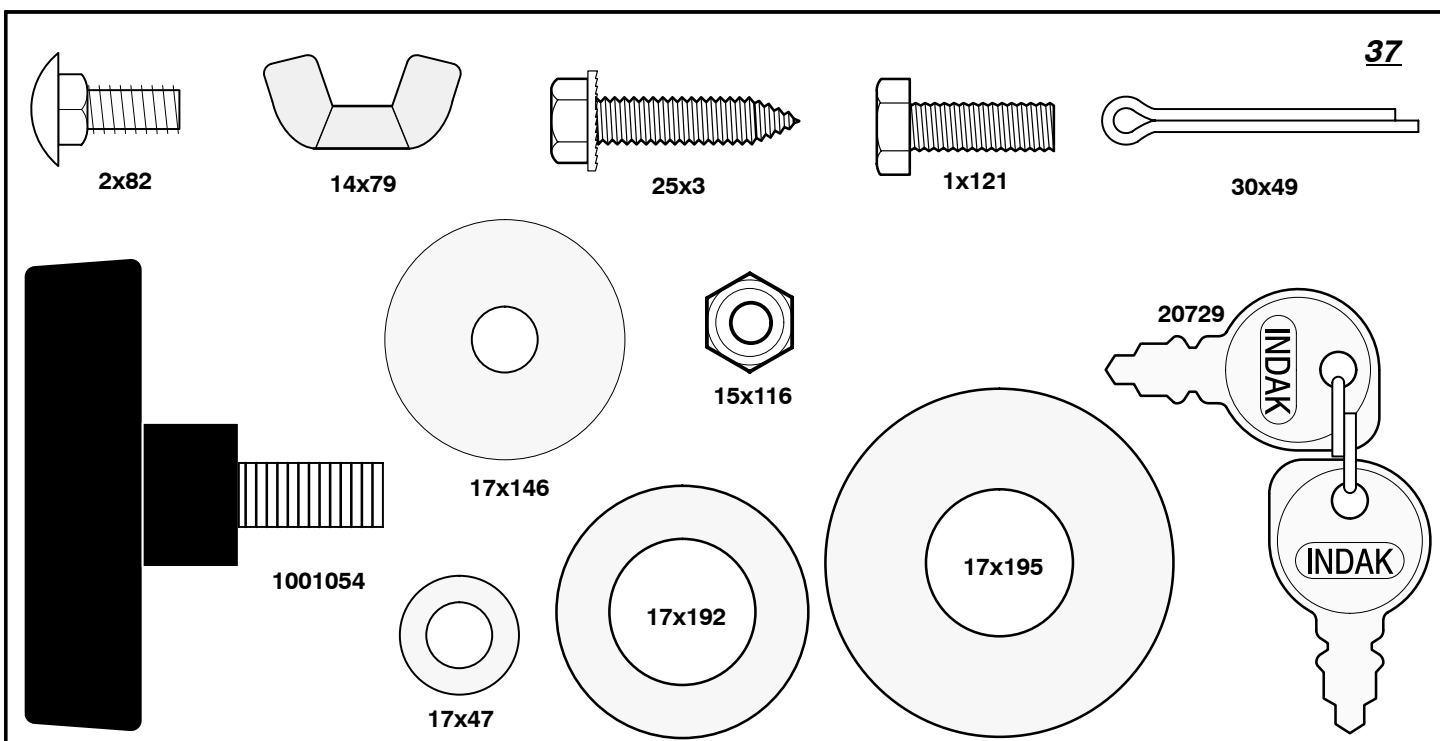
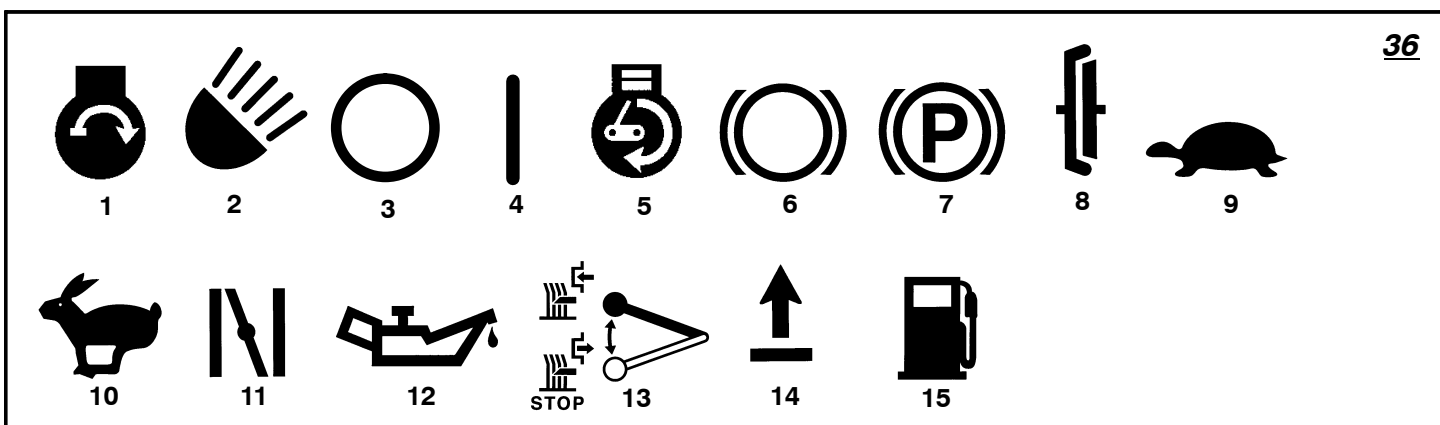
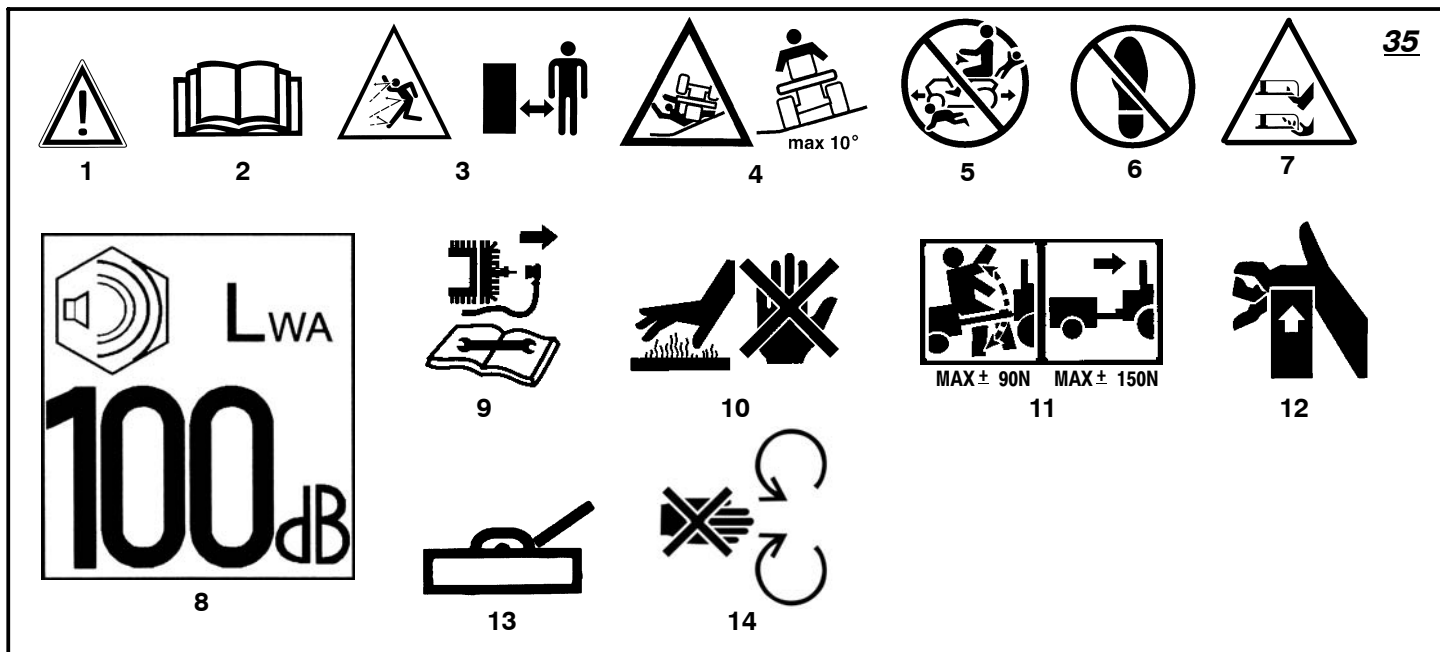












CONTENTS

INTERNATIONAL PICTORIALS	10
OWNER'S INFORMATION	11
SAFE OPERATION PRACTICES	11
ASSEMBLY	12
OPERATION	13
MAINTENANCE CHART	15
MAINTENANCE	15
TROUBLE SHOOTING CHART	19

INTERNATIONAL PICTORIALS

IMPORTANT: The following pictorials are located on your unit or on literature supplied with the product. Before you operate the unit, learn and understand the purpose for each pictorial.

NOTE: Illustrations and pictorials begin on page 2.

Safety Warning Pictorials (Figure 35)

- | | |
|--|--|
| <p>1 WARNING</p> <p>2 IMPORTANT: Read Owner's Manual Before Operating This Machine.</p> <p>3 WARNING: Thrown Objects. Keep Bystanders Away. Read User Instructions Before Operating This Machine.</p> <p>4 WARNING: Do Not Use This Machine On Slopes Greater Than 10 Degrees.</p> | <p>5 DANGER: Keep People, Especially Children, Away From Unit.</p> <p>6 DANGER: No Step.</p> <p>7 DANGER: Keep Feet And Hands Away From Rotating Blade.</p> <p>8 Declared airborne sound power level of 100 dB(A) is in accordance with Directive 2000/14/EC.</p> <p>9 DANGER: Disconnect Spark Plug Wire Before Servicing Unit.</p> <p>10 WARNING: Hot Surface.</p> <p>11 WARNING: Use Caution When Connecting Or Disconnecting Accessories.</p> <p>12 WARNING: Crushed Fingers.</p> <p>13 IMPORTANT: Follow Instructions In Owner's Manual To Level The Deck.</p> <p>14 WARNING: Stay Clear Of Mower Blade As Long As Engine Is Running.</p> |
|--|--|

Control And Operating Pictorials (Figure 36)

- | |
|---|
| <p>1 Engine Start</p> <p>2 Lights</p> <p>3 Engine Run</p> <p>4 Engine Stop</p> <p>5 Engine Run</p> <p>6 Brake</p> <p>7 Parking Brake</p> <p>8 Clutch</p> <p>9 Slow</p> <p>10 Fast</p> <p>11 Choke</p> <p>12 Oil</p> <p>13 Blade Rotation Control</p> <p>14 Raise</p> <p>15 Fuel</p> |
|---|

MURRAY



MODEL NO.: 312006x190A

SKU No.:

YYYY MM DD: _____

SERIAL NO.:

2850 min-1
182 kg

Assembled in USA by Swisher for Briggs & Stratton Corp

1740335SM

Declared vibration emission values in accordance with Directive 98/37/EC.

Vibration Emission according to BS EN 1032: Seat 1.64 m/s²,

Right Running Board 2.19 m/s², Left Running Board 2.90 m/s²

Vibration Emission according to BS EN 1033: Steering Wheel 4.39 m/s²

Values determined with operator in operating position when the machine was operated stationary on a concrete surface at 2850 min-1.

Declared airborne sound power level of 100 dB(A) is in accordance with Directive 2000/14/EC.

Sound Pressure Level at operator position 86 dB.

Values determined at ear according to the specifications of EN 836/A2:2001.

OWNER'S INFORMATION

Know your product: If you understand the unit and how the unit operates, you will get the best performance. As you read this manual, compare the illustrations to the unit. Learn the location and the function of the controls. To help prevent an accident, follow the operating instructions and the safety rules. Keep this manual for future reference.



WARNING: Look for this symbol to indicate important safety precautions. This symbol indicates: "Attention! Become Alert! Your Safety Is At Risk."

Responsibility Of The Owner



WARNING: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death to the operator or bystanders.

The responsibility of the owner is to follow the instructions below.

SAFE OPERATION PRACTICES

For Ride-On (Riding) Rotary Mower Machines

Training

1. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
2. Never allow children or people unfamiliar with these instructions to use the mower. Local regulations may restrict the age of the operator.
3. Never mow while people, especially children, or pets are nearby.
4. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
5. Do not carry passengers.
6. All drivers should seek and obtain professional and practical instruction. Such instruction should emphasize:
 - a. the need for care and concentration when working with ride-on machines;
 - b. control of a ride-on machine sliding on a slope will not be regained by the application of the brake. The main reasons for loss of control are:
 - insufficient wheel grip;
 - being driven too fast;
 - inadequate braking
 - the type of machine is unsuitable for its task;
 - lack of awareness of the effect of ground conditions, especially slopes;
 - incorrect hitching and load distribution.

Preparation

1. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
2. Thoroughly inspect the area where the

equipment is to be used and remove all objects which may be thrown by the machine.

3. **WARNING – Petrol is highly flammable.**
 - a. Store fuel in containers specifically designed for this purpose.
 - b. Refuel outdoors only and do not smoke while refuelling.
 - c. Add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.
 - d. If petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.
 - e. Replace all fuel tanks and container caps securely.
4. Replace faulty silencers.
5. Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
6. On multi-blade machines, take care as rotating one blade can cause other blades to rotate.

Operation

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
2. Mow only in daylight or in good artificial light.
3. Before attempting to start the engine, disengage all blade attachment clutches and shift into neutral.
4. Do not use on slopes of more than 10 degrees.
5. Remember there is no such thing as a "safe" slope. Travel on grass slopes requires particular care. To guard against overturning:
 - a. do not stop or start suddenly when going up or downhill;
 - b. engage clutch slowly, always keep machine in gear, especially when travelling downhill;
 - c. machine speeds should be kept low on slopes and during tight turns;
 - d. stay alert for humps and hollows and other hidden hazards;
 - e. never mow across the face of the slope, unless the mower is designed for this purpose.
6. Use care when pulling loads or using heavy equipment.
 - a. Use only approved drawbar hitch points.
 - b. Limit loads to those you can safely control.
 - c. Do not turn sharply. Use care when reversing.
 - d. Use counterweight(s) or wheel weights when suggested in the Instruction Book.
7. Watch out for traffic when crossing or near roadways.
8. Stop the blades rotating before crossing surfaces other than grass.
9. Never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
10. Never operate the mower with defective guards or shields, or without safety protective devices in place.
11. Do not change the engine governor settings or overspeed the engine. Operating an engine at excessive speed may increase the hazard of personal injury.
12. Before leaving the operator's position
 - a. disengage the drive to the attachment(s) and lower it (them);
 - b. change into neutral and set the parking brake;
 - c. stop the engine, disconnect the spark plug wire(s) and remove the ignition key.
13. Disengage drive to attachments, stop the engine, disconnect the spark plug wire(s) and remove the ignition key
 - a. before cleaning blockages or unclogging chute;
 - b. before checking, cleaning or working on the mower;
 - c. after striking a foreign object. Inspect the mower for damage and make repairs before restarting and operating the equipment;
 - d. if the machine starts to vibrate abnormally (check immediately).
14. Disengage drive to attachments when transporting or not in use.
15. Stop the engine and disengage drive to attachment
 - a. before refuelling;
 - b. before removing the grass catcher;
 - c. before making height adjustment unless adjustment can be made from the operator's position.
16. Reduce the throttle setting during engine run-out and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.
17. Before and when backing, look **behind and down** for small children.
18. Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure vision.

Maintenance and Storage

1. On multi-blade machines, take care as rotating one blade can cause other blades to rotate.
2. When machine is to be parked, stored or left unattended, lower the cutting means unless a positive mechanical lock is used.
3. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
4. Never store the equipment with petrol in the tank inside a building where fumes may reach an open flame or spark.
5. Allow the engine to cool before storing in any enclosure.
6. To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
7. Check the grass catcher frequently for wear or deterioration.
8. Replace worn or damaged parts for safety.
9. If the fuel tank has to be drained, this should be done outdoors.
10. Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.

ASSEMBLY

All fasteners are in the parts bag. Do not discard any parts or material until the unit is assembled.



WARNING: Before doing any assembly or maintenance to the mower, remove the wire from the spark plug.

NOTE: In this instruction book, left and right describe the location of a part with the operator on the seat.

NOTE: Illustrations and pictorials begin on page 2.

NOTE: To assemble the following loose parts, use the fasteners shown at full size in Figure 37.

How To Install The Front Wheels (Figure 1)

NOTE: Use a piece of wood about 4 feet (1.25 meters) long to raise the front of the tractor. If a piece of wood cannot be found, get another person to help lift the tractor. Be careful, do not let the vzwtractor fall.

1. Raise the front of the tractor. Set a support (block of wood) under the tractor.
2. Make sure the **valve stem (2)** is to the outside of the tractor. Slide the **front wheel (1)** on the **spindle (3)**.
3. Fasten each **front wheel (1)** with **washer (4)**, **washer (7)**, and **cotter pin (5)**. Bend the ends of the **cotter pin (5)** apart to keep the **front wheel (1)** on the **spindle (3)**.
4. After the **front wheels (1)** are installed, lift the tractor from the support. Roll the tractor off of the container.
5. If your tractor has **hub caps (6)**, install the **hub caps (6)**. Make sure the **washers (4)** hold the **hub caps (6)** in place.

How To Install The Seat (Figure 2)

1. Carefully remove the plastic bag from the **seat (1)**.
2. Align the holes in the **seat hinge (2)** to the holes in the **seat (1)**. Fasten the **seat (1)** to the **seat hinge (2)** with the **fasteners (4)** and **(5)**.
3. Check the operating position of the **seat (1)**. If the **seat (1)** needs to be adjusted, loosen the two **wing bolts (5)**. Slide the **seat (1)** forward or backward along the **seat adjusting holes (3)**. Tighten the **wing bolts (5)**.

How To Assemble The Steering Wheel (Figure 3)

1. Make sure the front wheels point forward.
2. Slide the **cover (3)** over the **steering post (2)**. Make sure the collar of the **cover (3)** is on top.
3. Slide the **steering wheel (1)** onto the **steering post (2)**.
4. Attach the **steering wheel (1)** to the **steering post (2)** with **screw (4)** and **washer (6)**.
5. Some models have an *optional insert (7)* in the parts bag. Attach the **insert (7)** to the center of the **steering wheel (1)**.

1740335SM

How To Assemble The Grass Bag

1. (Figure 5) Slide the **top tube (1)** onto the **wire frame (2)**. Make sure the **handles (3)** on the **top tube (1)** and the **wire frame (2)** are on top.
2. Attach the **struts (4)** to the *INSIDE* of the **mounting tabs (5)** with **bolt (6)** and **nut (7)**. Make sure the head of **bolt (6)** is on the outside and **nut (7)** is locked against the **strut (4)**.
3. (Figure 6) Slide the **frame assembly (8)** into the **grass bag (9)**. Make sure the **Velcro flap (10)** is on top.
4. (Figure 7) Open the **Velcro flap (10)**. Slide the **handle (3)** through the opening and secure the **Velcro flap (10)** under the **handle (3)**.
5. Attach the **clips (11)** to the **frame assembly (8)**.

How To Mount The Grass Bag

1. (Figure 8) To lift the grass bag assembly, use the grass bag **handles (3)**.
2. (Figure 9) Mount the top of the **grass bag assembly (12)** onto the **rear plate hinges (13)**.
3. (Figure 8) When mounting the top of the **grass bag (9)**, hold the bottom of the **grass bag (9)** slightly away from the **rear plate (14)**.
4. (Figure 10) Then, lower the **grass bag (9)** until the bottom is against the rear plate.
5. (Figure 9) Push down on the rear handle. A **locking spring (15)** on the rear plate will secure the bottom of the **grass bag assembly (12)**.

Maintenance Free Battery (Figure 4)

IMPORTANT: Before you attach the battery cables to the battery, check the battery date. The battery date tells if the battery must be charged.

1. Check the top and the side of the **battery (1)** for the location of the battery date.
2. If the **battery (1)** is put into service *before* the battery date, the battery cables can be attached without charging the **battery (1)**. See "How To Install The Battery Cables".
3. If the **battery (1)** is put into service *after* the battery date, the **battery (1)** must be charged. See "How To Charge The Maintenance Free Battery".

How To Charge The Battery (Figure 4)



WARNING: When you charge the battery, do not smoke. Keep the battery away from any sparks. The fumes from the battery acid can cause an explosion.

1. Remove the **battery (1)** and **battery tray (3)**.
2. Remove the protective cap from the battery terminal.
3. Use a 12 volt battery charger to charge the **battery (1)**. Charge at a rate of 6 amperes for one hour. If you do not have a battery charger, have an authorized service centre charge the battery.

4. Install the **battery (1)** and **battery tray (3)**. Make sure the **positive (+) terminal (4)** is on the left side.

How To Install The Battery Cables (Figure 4)



WARNING: To prevent sparks, fasten the red cable to the positive (+) terminal before you connect the black cable.

1. Remove the protective cap from the battery terminal.
2. Slide the **terminal cover (2)** onto the **red cable (5)**. Fasten the **red cable (5)** to the **positive (+) terminal (4)** with the **fasteners (6)** and **(7)**.
3. Fasten the **black cable (8)** to the negative (-) terminal with the **fasteners (6)** and **(7)**.

Check The Tyres

Check the air pressure in the tyres. Tyres with too much air pressure will cause the unit to ride rough. Also, the wrong air pressure will keep the mower housing from cutting level. The correct air pressure is: Front Tyres 0,97 BAR (14 PSI), Rear Tyres 0,69 BAR (10 PSI). The tyres were over inflated for shipment.

Check The Level Of The Mower Housing

Make sure the level of cut is still correct. After you mow a short distance, look at the area that was cut. If the mower housing does not cut level, see the instructions on "How To Level The Mower Housing" in the Maintenance section of this instruction book.

How To Prepare The Engine

NOTE: The engine was shipped from the factory filled with oil. Check the level of the oil. Add oil as needed.

See the engine manufacturer's instructions for the type of petrol and oil to use. Before you use the unit, read the information on safety, operation, maintenance, and storage.



WARNING: Follow the engine manufacturer's instructions for the type of petrol and oil to use. Always use a safety petrol container. Do not smoke when adding petrol to the engine. When inside an enclosure, do not fill with petrol. Before you add petrol, stop the engine. Let the engine cool for several minutes.

Important! Before You Start Mowing

- ☐ Check the engine oil.
- ☐ Fill the fuel tank with petrol.
- ☐ Check the air pressure of the tyres.
- ☐ Check the level of the mower housing.
- ☐ Attach the battery cables.

OPERATION

NOTE: Illustrations and pictorials begin on page 2.

Location Of Controls (Figure 13)

Blade Rotation Control (1): Use the blade rotation control to start and stop the rotation of the blade.

Clutch / Brake Pedal (2): The pedal has two functions. The first function is a clutch. The second function is a brake.

Headlight Switch (3): The headlight switch is the first part of the ignition switch. To use the lights with the engine running, turn the key to the position for the lights.

Ignition Switch (3): Use the ignition switch to start and stop the engine.

Shift Lever (4): Use the shift lever to change the speed of the unit.

Lift Lever (5): Use the lift lever to change the height of cut.

Parking Brake Lever (6): Use the parking brake lever to engage the brake when you leave the unit.

Throttle Control Lever (7): Use the throttle control lever to increase or decrease the speed of the engine.

How To Use The Throttle Control (Figure 13)

Use the **throttle control (7)** to increase or decrease the speed of the engine.

1. The FAST position is marked with a detent. For normal operation and when using a grass bagger, move the throttle control to the FAST position. For maximum charging of the battery and for a cooler running engine, operate the engine in the FAST position.
2. The engine governor is set at the factory for maximum performance. Do not adjust the governor to increase the speed of the engine.

How To Use The Blade Rotation Control (Figure 13)

Use the **blade rotation control (1)** to engage the blade(s).

1. Before you start the engine, make sure the **blade rotation control (1)** is in the DISENGAGE position.
2. Move the **blade rotation control (1)** to the ENGAGE position to rotate the blade(s).

NOTE: If the engine stops when you engage the blade(s), the seat switch or the grass bag switch is not activated.

3. Move the **blade rotation control (1)** to the DISENGAGE position to stop the blade(s). Before you leave the operator's position, make sure the blade(s) has stopped rotating.
4. Before you ride the unit across a sidewalk or a road, move the **blade rotation control (1)** to the DISENGAGE position.

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WARNING: Always keep your hands and feet away from the blade, deflector opening, and the mower housing when the engine runs.

How To Use The Shift Lever (Figure 13)

To change the forward speed or the direction of the unit, follow the steps below.

CAUTION: Before you move the shift lever, completely push the clutch/brake pedal forward to stop the unit. If the unit is not stopped, the gearbox can be damaged.

1. Completely push the **clutch/brake pedal (2)** forward to stop the unit. Keep your foot on the pedal.
2. Move the **throttle control lever (7)** to the SLOW position.
3. To go forward, move the **shift lever (4)** to a forward speed setting. To go backward, move the **shift lever (4)** to reverse.
4. Slowly release the **clutch/brake pedal (2)**. Do not keep your foot on the pedal.
5. Move the **throttle control (7)** to the FAST position.

How To Use The Parking Brake (Figure 13)

1. Completely push the **clutch/brake pedal (2)** forward.
2. Lift the **parking brake lever (6)**.
3. Remove your foot from the **clutch/brake pedal (2)** and then release the **parking brake lever (6)**. Make sure the parking brake will hold the unit.
4. To release the **parking brake (6)**, completely push the **clutch/brake pedal (2)** forward. The parking brake will automatically release.



WARNING: Before you leave the operator's position, move the shift lever to the neutral (N) position. Set the parking brake. Move the blade rotation control to the DISENGAGE position. Stop the engine and remove the ignition key.

How To Change The Cutting Height (Figure 13)

To change the cutting height, raise or lower the **lift lever (5)** as follows.

1. Move the **lift lever (5)** forward to lower the mower housing and back to raise the mower housing.
2. When you ride on a sidewalk or road, move the **lift lever (5)** to the highest position and move the **blade rotation control** to the DISENGAGE position.

How To Stop The Unit (Figure 13)

1. Completely push the **clutch/brake pedal (2)** forward to stop the unit. Keep your foot on the pedal.
2. Move the **blade rotation control (1)** to the DISENGAGE position.
3. Move the **shift lever (4)** to the NEUTRAL position.
4. Set the **parking brake (6)**.



WARNING: Make sure the parking brake will hold the unit.

5. Move the **throttle control (7)** to the SLOW position.
6. To stop the engine, turn the **ignition key (3)** to the OFF position. Remove the key.

How To Transport The Unit

To transport the unit, follow the steps below.

1. Move the blade rotation control to the DISENGAGE position.
2. Raise the lift lever to the highest position.
3. Move the throttle control to a position between SLOW and FAST.
4. To go faster, move the shift lever to a faster speed.

How To Operate With The Mower Housing

IMPORTANT: When you operate with the mower housing, always operate with the throttle control in the FAST position.

1. Start the engine.
 2. Move the lift lever to a height of cut position. In high or thick grass, cut the grass in the highest position first and then lower the mower housing to a lower position.
 3. Move the throttle control to the SLOW position.
 4. Slowly move the blade rotation control to the ENGAGE position.
 5. Push the clutch/brake pedal completely forward.
 6. Move the shift lever to one of the speed settings.
- NOTE:** When you mow in heavy grass or mow with a bagger, put the shift lever in the slowest speed.
7. Slowly release the clutch/brake pedal.
 8. Move the throttle control to the FAST position. If you need to go faster or slower, stop the unit and move the shift lever to another speed setting.
 9. Make sure the level of cut is still correct. After you mow a short distance, look at the area that was cut. If the mower housing does not cut level, see the instructions on "How To Level The Mower Housing" in the Maintenance section.



WARNING: For better control of the unit, select a safe speed.

How To Operate On Hills



WARNING: Do not ride up or down slopes that are too steep to back straight up. Never ride the unit across a slope.

1. Before you ride up or down a hill, move the shift lever to the slowest speed.
2. Do not stop or change speed settings on a hill. If you must stop, quickly push the clutch/brake pedal forward and set the parking brake.
3. To start again, make sure the shift lever is in the slowest speed. Move the throttle control to the SLOW position. Slowly release the pedal.

4. If you must stop or start on a hill, always have enough space for the unit to roll when you release the brake and engage the clutch.
5. Be very careful when you change directions on a hill. When on a slope or in a turn on a hill, move the throttle control to the SLOW position to help prevent an accident.

How To Use The Grass Bagger



WARNING: Do not ride up or down slopes that are too steep to back straight up. Never ride the unit across a slope.

Operation

To operate with the grass bagger, follow the steps below.

1. Start the engine.
2. Move the throttle control to FAST position.
3. Move the shift lever to FIRST (1) position. To fill the grass bag, always operate at the slowest speed.
4. If the height of the grass is more than 3 1/2 inches (9cm), cut the grass with the mower housing in the highest position. Then, lower the mower housing and cut the grass again. You can also cut at 1/2 to 2/3 of the full cutting width of the mower housing.

How To Clear The Connector Tube And The Extension Tube

If the **connector tube** or the **extension tube** becomes filled with grass, clear as follows.

1. Move the blade rotation control to the DISENGAGE position.
2. Move the shift lever to the neutral (N) position.
3. Engage the parking brake.
4. Stop the engine.
5. **(Figure 8)** Remove the **grass bagger (9)**.
6. **(Figure 11)** Use a long **stick (1)** to push any grass and debris from the **connector tube (2)** or the extension tube.
7. If the connector must be removed, see "How To Remove The Connector Tube" in the maintenance section.

How To Empty The Grass Bagger

1. Move the blade rotation control to the DISENGAGE position.

2. Move the shift lever to the neutral (N) position.
3. Engage the parking brake.
4. **(Figure 12)** Raise the rear of the **grass bag (9)**.

Before Starting The Engine

Check the oil

NOTE: The engine was shipped from the factory filled with oil. Check the level of the oil. Add oil as needed. See the engine manufacturer's instructions for the type of petrol and oil to use.

1. Make sure the unit is level.

NOTE: Do not check the level of the oil while the engine runs.

2. Check the oil. Follow the procedure in the engine manufacturer's instructions.
3. If necessary, add oil until the oil reaches the FULL mark on the dipstick. The quantity of oil needed from ADD to FULL is shown on the dipstick. Do not add too much oil.

Add Petrol



WARNING: Always use a safety petrol container. Do not smoke when adding petrol to the fuel tank. Do not add petrol when you are inside an enclosure. Before you add petrol, stop the engine and let the engine cool for several minutes.

(Figure 14) Fill the **fuel tank (1)** to the **FULL (2)** position with regular unleaded petrol. Do not use premium unleaded petrol. Make sure the petrol is fresh and clean. Leaded petrol will increase deposits and shorten the life of the valves.

How To Start The Engine



WARNING: The electrical system has an operator presence system that includes a sensor switch for the seat. These components tell the electrical system if the operator is sitting on the seat. This system will stop the engine when the operator leaves the seat. For your protection, always make sure this system operates correctly.

NOTE: The engine will not start unless you depress the clutch/brake pedal and move the blade rotation control to the DISENGAGE position.

1. Push the clutch/brake pedal completely forward. Keep your foot on the pedal.
2. Move the shift lever to the neutral (N) position.
3. Make sure the blade rotation control is in the DISENGAGE position.
4. Move the throttle control completely forward to the CHOKE or FAST position. Some models have a separate choke knob. Pull the choke knob to the full CHOKE position.
5. Turn the ignition key to the START position.

NOTE: If the engine does not start after four or five tries, move the throttle control to the FAST position. Again try to start the engine. If the engine will not start, see the TROUBLE SHOOTING CHART.

6. Slowly move the throttle control to the SLOW position.
7. To start a hot engine, move the throttle control to a position between FAST and SLOW.

Mowing And Bagging Tips

1. For a lawn to look better, check the cutting level of the mower housing. See "How To Level The Mower Housing" in the Maintenance section.
2. For the mower housing to cut level, make sure the tyres have the correct amount of air pressure.
3. Every time you use the unit, check the blade. If the blade is bent or damaged, immediately replace the blade. Also, make sure the nut for the blade is tight.
4. Keep the blade(s) sharpened. Worn blades will cause the ends of the grass to turn brown.
5. If the grass is very high, cut two times to decrease the load on the engine. First cut with the mower housing in the highest position and then lower the mower housing for the second cut.
6. Operate the engine with the throttle in FAST position and the shift lever in first or second gear.
7. For better cutting performance and a quality cut, mow with the shift lever in one of the slower speeds.
8. After each use, clean the bottom and top of the mower housing for better performance. Also, a clean mower housing will help prevent a fire.

MAINTENANCE CHART

FREQUENCY	MAINTENANCE REQUIRED	COMMENTS
Daily or before each use	Maintenance engine.	Refer to the Engine Owner's Manual .
	Examine blade(s).	Check for cracks, wear, and excessive damage.
	Remove debris from unit and mowing area.	
	Examine all rotating and sliding parts.	
	Check tire inflation.	Refer to the Maintenance section.
	Verify that the mower housing is level.	Refer to the Maintenance section.
	Examine V-belts.	Check for cracks, wear, and excessive damage.
	Check brake operation.	Refer to the Operation and Maintenance sections.
After completion of first 5 hours	Change oil.	Refer to the Engine Owner's Manual .
After 25 hours	Maintenance engine.	Refer to the Engine Owner's Manual .
	Remove, examine, sharpen, and balance blade(s).	Refer to Maintenance section.
	Check adjustments: a. Blade Rotation Control b. Brake c. Clutch d. Steering	Refer to Maintenance section.
	Lubricate chassis and mower housing.	Refer to Where to Lubricate instructions.
	Check the muffler: a. Torque b. For wear or burn out c. Condition of spark arrestor, (if applicable).	Refer to Maintenance section.
Before storage of 30 days or more	Prepare engine for storage.	Refer to the Engine Owner's Manual .
	Drain fuel system.	Refer to warnings in the Owner's Manual .
	Add fuel stabilizer.	Refer to the Engine Owner's Manual .
	Prepare battery for storage: a. Remove from unit. b. Fully charge. c. Move to cool dry place.	

MAINTENANCE

NOTE: Illustrations and pictorials begin on page 2.

General Recommendations

- The owner's responsibility is to maintain this product. This will extend the life of the product and is also necessary to maintain warranty coverage.
- Check the spark plug, drive brake, lubricate the unit, and clean the air filter once a year.
- Check the fasteners. Make sure all fasteners are tight.
- Follow the Maintenance section to keep the unit in good operating condition.



WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the wire from the spark plug to prevent the engine from starting by accident.

NOTE: Torque is measured in metric N-m (foot pounds). This measurement describes how tight a nut or bolt must be. The torque is measured with a torque wrench.

How To Remove The Connector Tube

For good bagging performance, the connector tube must be clean and free from grass and debris. Remove and clean the connector tube as follows.

bris. Remove and clean the connector tube as follows.

To Remove

- Move the blade rotation control to the DIS-ENGAGE position.
- Move the shift lever to the neutral (N) position.
- Engage the parking brake.
- Stop the engine.
- Move the lift lever to the middle cutting position.
- (Figure 15 and Figure 16) Disconnect the rubber strap (1) from the latch pin (2) on the connector tube (3).
- (Figure 17) Hold the handles (4). Remove the grass bag (5).
- (Figure 18) Pull the connector tube (3) through hole in rear plate (6).
- Clean the connector tube (3) with soap and water.

To Install

- (Figure 16 and Figure 18) Slide the flange (7) end of the connector tube (3) through hole in rear plate (6).
- (Figure 16) Slide the flange (7) end of the connector tube (3) over the extension tube (8).

- (Figure 15 and Figure 16) Attach the rubber strap (1) to the latch pin (2) on the connector tube (3).
- Install the grass bag.

Inspect Blade (Figure 19)



WARNING: Before you inspect or remove the blade, disconnect the wire to the spark plug. If the blade hits an object, stop the engine. Check the unit for damage. The blade has sharp edges. When you hold the blade, use gloves or cloth material to protect your hands.

If you keep the blade (1) sharp and inspect the blade for damage, the blade will cut better and be more safe to operate. Frequently check the blade for excessive wear, cracks, or other damage. Frequently check the nut (3) that holds the blade (1). Keep the nut (3) tight. If the blade hits an object, stop the engine. Disconnect the wire to the spark plug. See if the blade is bent or damaged. Check the blade adapter (5) for damage. Before you operate the unit, replace damaged parts with original equipment parts. See the authorized service centre in your area. Every three years, have an authorized service person inspect the blade or replace the old blade with an original equipment part.

How To Remove And Install The Blade (Figure 19)

- Remove the mower housing. See the instructions on "How To Remove The Mower Housing".

2. Use a piece of wood to keep the blade from rotating.
3. Remove the **nut (3)** that holds the **blade (1)**.
4. To remove the **blade (1)** from the **air assist fan (8)**, remove **fasteners (9) and (10)**.
5. Check the **blade (1)** and the **blade adapter (5)** according to the instructions for "Inspect Blade". Check the **air assist fan (8)** for damage. Replace badly worn or damaged parts with original equipment parts. See an authorized service centre in your area.
6. Clean the top and bottom of the mower housing. Clean the **air assist fan (8)**. Remove all the grass and debris.
7. Assemble the **blade (1)** and **air assist fan (8)** with **fasteners (9) and (10)**. Tighten the **bolt (9)** that holds the **blade (1)** to a torque of 6,8 N-m (5 foot pounds).
8. Mount the **blade (1)** and **blade adapter (5)** on the **mandrel (6)**.
9. Mount the **blade (1)** so that the **hi-lift edges (7)** are up. If the **blade** is upside down, the **blade** will not cut correctly and can cause an accident.
10. Fasten the **blade (1)** with the original washers and **nut (3)**. Make sure the outside rim of the **Belleville washer (2)** is against the **blade (1)**.



WARNING: Always keep the nut (3) tight that holds the blade (1). A loose nut or blade can cause an accident.

11. Tighten the **nut (3)** that holds the **blade (1)** to a torque of 41,5 N-m (30 foot pounds).
12. Install the mower housing. See "How To Remove The Mower Housing".

How To Adjust The Blade Rotation Control



WARNING: To prevent an injury, the blade rotation control must operate correctly.

In normal usage, the blade rotation control will not require an adjustment. However, if the cutting performance decreases or the quality of cut is poor, make the following changes.

1. When you mow, make sure the throttle control is in the FAST position.
2. **(Figure 20)** Move the blade rotation control to the **DISENGAGE position (1)**.
3. Stop the engine. Disconnect the wire from the spark plug.
4. Check the blade(s). Keep a sharp edge on the blade(s). A blade that is not sharp will cause the tips of the grass to become brown.
5. **(Figure 21)** Disconnect the **blade drive spring (2)** from the **blade control rod (1)**. Move the **blade drive spring (2)** to the **middle hole (4)**. This will increase the tension on the mower drive belt.
6. Attach the wire to the spark plug. Mow for a short distance and again check the quality of cut. If necessary, move the **blade drive spring (2)** to the **bottom hole (5)**.

7. Again check the quality of cut. If the quality of cut has not improved, replace the mower drive belt. See "How To Replace The Mower Drive Belt". If replacing the belt does not correct the problem, take the unit to an authorized service centre.
8. Move the blade rotation control to the **DIS-ENGAGE position**. Stop the engine.
9. **(Figure 22)** Check the operation of the blade brake. Rotate the **mandrel pulley (5)** with your hand. Make sure the **brake pad (7)** is pressed tightly against the **mandrel pulley (5)**.



WARNING: If the brake pad (7) does not press tightly against the mandrel pulley (5), take the unit to an authorized service centre.

10. **(Figure 20)** Move the blade rotation control to the **ENGAGE position (2)**.
11. **(Figure 22)** Check the pad for the **blade brake (7)**. If the pad is excessively worn or damaged, replace the brake pad assembly. Correct replacement parts and assistance are available from an authorized service centre.
12. Attach the wire to the spark plug. Mow for a short distance and again check the operation of the blade rotation control.
13. When you move the blade rotation control to the **DIS-ENGAGE position**, all movement will stop within five seconds. If there is movement of the belt or the blade(s) continue to rotate, engage and disengage the blade rotation control five times to remove any excess rubber from a new mower drive belt. If you need assistance, take the unit to an authorized service centre.
14. **(Figure 21)** If you replace the mower drive belt, move the **blade drive spring (2)** to the **top hole (3)**.

How To Adjust The Shift Lever **(Figure 30)**

If the **NEUTRAL** position on the shift lever does not match neutral on the gearbox, adjust the shift lever as follows.

1. Stop the engine.
2. Disconnect the **adjuster nut (2)** from the **shifter bracket (3)**.
3. Make sure the shift lever is in the **NEUTRAL position**.
4. Push the unit forward. Make sure the gearbox is in neutral.
5. To align the **adjuster nut (2)** with the hole in the **shifter bracket (3)**, turn the **adjuster nut (2)**.
6. Connect the **adjuster nut (2)** to the **shifter bracket (3)**.
7. Make sure the **NEUTRAL** position on the shift lever matches neutral on the gearbox.

How To Check And Adjust The Clutch **(Figure 23)**

If the motion drive belt is loose, the clutch will slip when: going up a hill, pulling a heavy load, or the unit will not move forward. Adjust the clutch as follows.



WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the wire from the spark plug to prevent the engine from starting by accident.

1. Check the routing of the motion drive belt. Make sure the belt is installed correctly and is inside all the belt guides.
2. Remove the **cotter pin (1)**, **washer (2)**, and **brake spring (3)** from the **adjustable nut (4)**.
3. Disconnect the **adjustable nut (4)** from the **brake lever assembly (5)** and the **parking brake latch (6)**.
4. Align the hole in the **brake lever (5)** with the hole in the **frame**. Hold the **brake lever (5)** in place with a 6 mm **pin or bolt (7)**.
5. Pull the clutch rod forward until tight. Turn the **adjustable nut (4)** until the nut will fit through the hole in the **brake lever (5)**.
6. Assemble the **adjustable nut (4)** to the **parking brake latch (6)**, **brake lever (5)** and **brake spring (3)**. Fasten with the **washer (2)** and **cotter pin (1)**.
7. Remove the 6 mm **pin or bolt (7)**.
8. If the belt still slips after the clutch has been adjusted, then the motion drive belt is worn or damaged and must be replaced. See "How To Replace The Motion Drive Belt".

How To Check And Adjust The Drive Brake **(Figure 24)**

Completely push the clutch/brake pedal forward. Set the parking brake. Move the shift lever to the neutral (N) position. Push the unit. If the rear wheels rotate, adjust or replace the brake pads. Adjust the **drive brake (1)** as follows.

1. The location of the **drive brake (1)** is on the right side of the **gearbox (3)**.
2. Make sure the parking brake is set and the shift lever is in neutral (N). Turn the **hex nut (2)** in a clockwise direction until the rear wheels do not turn when the unit is pushed forward.
3. Release the parking brake and push the unit. If the unit does not roll, turn the **hex nut (2)** in a counter-clockwise direction until the unit rolls.
4. Set the parking brake. Push the unit. If the rear wheels do not turn, the **drive brake (1)** is correctly adjusted. Release the parking brake.



WARNING: If you cannot correctly adjust the drive brake, replace the brake pads. Correct replacement parts and assistance are available from an authorized service centre.

How To Remove The Battery **(Figure 4)**

To charge or clean the **battery (1)**, remove the **battery (1)** from the unit as follows.



WARNING: To prevent sparks, disconnect the black battery cable (8) from the negative (-) terminal before you disconnect the red cable (5).



WARNING: The battery contains sulphuric acid which is harmful to the skin, eyes and clothing. If the acid gets on the body or clothing, wash with water.

1. Disconnect the **black cable (8)** from the negative (-) terminal.

2. Disconnect the **red cable (5)** from the **positive (+) terminal (4)**.
3. Lift the **battery tray (3)** and the **battery (1)** out of the unit.

How To Charge The Battery (Figure 4)



WARNING: When you charge the battery, do not smoke. Keep the battery away from any sparks. The fumes from the battery acid can cause an explosion.

1. Before you charge the **battery (1)**, remove the **battery (1)**.
2. To charge the **battery (1)**, use a 12 volt battery charger. Charge at a rate of 6 amperes for 1 hour.
3. Install the **battery (1)**.



WARNING: To prevent sparks, fasten the red cable to the positive (+) terminal before you connect the black cable.

4. Fasten the **red cable (5)** to the **positive (+) terminal (4)** with the fasteners as shown.
5. Fasten the **black cable (8)** to the negative (-) terminal with the fasteners as shown.

How To Level The Mower Housing (Figure 25 and Figure 26)

If the mower housing is level, the blade will cut easier and the lawn will look better.



WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the spark plug wire to prevent the engine from starting by accident

1. Make sure the unit is on a hard flat surface.
2. Check the air pressure in the tyres. If the air pressure is incorrect, the mower housing will not cut level. Make sure the tyres are inflated to: Front Tyres 0,97 BAR (14 PSI), Rear Tyres 0,69 BAR (10 PSI).
3. (Figure 25) Move the **lift lever (1)** to the **lowest position (2)**.



WARNING: The lift lever (3) is spring loaded. Make sure the lift lever (1) is locked in the lowest position (2).

4. (Figure 26) Loosen the left and right **adjuster knobs (1)**. Push down on each side of the mower housing. Make sure both sides of the mower housing are setting on a flat surface. Also, make sure the **lift links (2)** are loose and can easily move up or down.
5. Push down on the **adjuster knobs (1)** and the **lift links (2)**. Tighten the left and right **adjuster knobs (1)**. Make sure the **adjuster knobs (1)** are tight. If necessary, use a wrench to tighten the **adjuster knobs (1)**.
6. (Figure 25) Raise the **lift lever (1)**.
7. Mow for a short distance. If the height of cut is not level, repeat the above steps.

Where To Lubricate (Figure 27)



Models with grease fittings:
Lubricate with grease gun.
Apply grease with a brush to the areas shown.
Lubricate the areas shown with engine oil.

NOTE: Apply grease to the steering gear assembly.

CAUTION: If the unit is operated in dry areas that have sand, use a dry graphite spray to lubricate the unit.

Check The Tyres

Check the air pressure in the tyres. Tyres with too much air pressure will cause the unit to ride rough. Also, the wrong air pressure will keep the mower housing from cutting level. The correct air pressure is: Front Tyres 0,97 BAR (14 PSI), Rear Tyres 0,69 BAR (10 PSI).

How To Replace The Motion Drive Belt

1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".
2. Completely push the pedal forward and engage the parking brake.
3. (Figure 28) Remove the **idler pulley (1)**.
4. (Figure 29) To access the **belt guides (1)**, remove the battery and battery tray. See "How To Remove The Battery".
5. Loosen the **belt guides (1)** at the **drive pulley (2)**.
6. (Figure 28) Remove the **motion drive belt (3)** from the **drive pulley (4)**.
7. (Figure 30) Remove the **adjuster nut (2)** from the **shifter bracket (3)**. Pull the motion drive belt over the **shifter bracket (3)**.
8. (Figure 31) To remove the **motion drive belt (1)** from the **stack pulley (2)**, pull the front end of the belt under the **stack pulley (2)** and then back between the stack pulley and the **steering plate (3)**.
9. (Figure 32) Remove the **access panel (1)**.
10. Remove the two **screws (4)** that attach the **steering shaft assembly (2)**. Raise the steering wheel and **steering shaft assembly (2)**. Pull the **motion drive belt (3)** under the **steering shaft assembly (2)**.
11. Remove the motion drive belt. A correct replacement part or assistance is available from an Authorized Service Centre in your area.
12. To install the motion drive belt, reverse the above steps.
13. (Figure 33) Check the routing of the **motion drive belt (1)**. Make sure the motion drive belt is installed correctly on the **idler pulley (2)**. Make sure the **steering shaft assembly (3)** is inside the **motion drive belt (1)**.

How To Replace The Mower Drive Belt (Figure 22)

1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".

2. Pull the **belt retainer (1)** away from the **idler pulley (2)** and remove the **mower drive belt (3)**.
3. Pull the **belt guide (4)** and the **brake assembly (7)** away from the **mandrel pulley (5)** and remove the **mower drive belt (3)**. A correct replacement part or assistance is available from an Authorized Service Centre in your area.
4. To install the mower drive belt, reverse the above steps.
5. Before you mow, check the blade rotation control. See the instructions on "How To Adjust The Blade Rotation Control".

How To Remove The Mower Housing (Figure 34)

1. Move the **blade rotation control (1)** to the **DISENGAGE** position.
2. Move the **lift lever (2)** to the lowest position.



WARNING: The lift lever (2) is spring loaded. Make sure the lift lever (2) is locked in the lowest position.

3. Remove the hair pins and the washers from the **adjuster arms (3)**. See illustrations "C" and "D".
4. Remove the hair pins and washers from the **suspension links (4)**. See illustrations "A" and "B".
5. Disconnect the **extension spring (5)** from the **blade control rod (6)**. See illustration "E".
6. Disconnect the **front hanger (9)** from the axle support. See illustration "F".
7. Remove the **mower drive belt (7)** from the **stack pulley (8)**. See illustration "G".
8. (Figure 16) Disconnect the **rubber strap (1)** from the **connector tube (3)**. Slide the **connector tube (3)** off the **extension tube (8)**.
9. Pull the mower housing away from the right side of the unit.
10. To install the mower housing, reverse the above steps.

How To Replace The Fuse

If the fuse is blown, the engine will not start. Remove the fuse and replace with a 15 amp. automotive fuse.

Storage (over 30 days)

At the end of each year, prepare the unit for storage as follows.

1. Drain the fuel from the carburettor and the fuel tank. Change the engine oil. See the engine manufacturer's instructions.
2. Clean the unit.
3. Charge the battery. See "How To Charge The Battery".

How To Order Replacement Parts

The replacement parts are shown either on the back pages of this Instruction Book or in a separate Parts List Book.

Use only manufacturer's authorized or approved replacement parts. The letter placed on the end of the part number denotes the type of finish for the part, C for chrome, Z for zinc, a PA for purchased assembly. It is important that you include this when ordering a part. Do not use attachments or accessories not specifically recommended for this unit. In order to obtain proper replacement parts you must supply the model number of your mower (see nameplate).

Replacement parts, except for the engine, transmission, transaxle or differential, are available from the store where the mower was purchased or a service shop recommended by the store.

Warranty service is available only through Authorized Service Dealers. Locate your nearest dealer in our locator map at www.murray.com.

Replacement parts for the engine, transaxle, or transmission, are available from the manufacturer's authorized service centre found in the commercial pages of the telephone directory. Also, see the individual engine or transmission warranties to order replacement parts.

When ordering the following information is required:

- (1) The Model Number
- (2) Serial Number
- (3) Part Number
- (4) Quantity

TROUBLE SHOOTING CHART

PROBLEM: The engine will not start.

1. Follow the steps, "How To Start The Engine" in this book.
2. Electric-Start Models: Clean the battery terminals. Tighten the cables.
3. Check for a loose wire. Tighten the limit switches. (See the wiring diagram.)
4. Drain the fuel tank. Clean the fuel line. Replace the fuel filter.
5. Remove the spark plug(s). Move the throttle to the SLOW position. Turn the ignition key to the ON position. Try to start the engine several times. Install the spark plug.
6. Replace the spark plug.
7. Adjust the carburettor.

PROBLEM: The engine will not turn over.

1. Follow the steps, "How To Start The Engine" in this book.
2. Electric-Start Models: Charge the battery.
3. Replace the fuse.
4. Check the wiring harness for damage or a loose connection. Repair the damaged wire.
5. Electric-Start Models: replace the solenoid. Recoil-Start Models: replace the module.

PROBLEM: The engine is difficult to start.

1. Adjust the carburettor.
2. Replace the spark plug.
3. Replace the fuel filter.

PROBLEM: The engine does not run smooth or has a loss of power.

1. Check the oil.
2. Clean the air filter.
3. Clean the air screen.
4. Replace the spark plug.
5. The engine is working too hard. Use a lower gear.
6. Adjust the carburettor.
7. Replace the fuel filter.

PROBLEM: The engine does not run smooth at fast speed.

1. Replace the spark plug.
2. Adjust the throttle control.

3. Clean the air filter.
4. Replace the fuel filter.

PROBLEM: The engine stops when the blades are engaged.

1. Check the wiring harness for damage or a loose connection. Repair the damaged wire.
2. Grass bag must be installed (applies only to model with rear discharge grass bag).

PROBLEM: On slopes, the engine stops.

1. Mow up and down slopes. Never mow across a slope.

PROBLEM: The engine will not idle.

1. Replace the spark plug.
2. Clean the air filter.
3. Adjust the carburettor.
4. Adjust the throttle control.
5. Drain the fuel tank. Clean the fuel line. Replace the fuel filter.

PROBLEM: A hot engine causes a decrease in power.

1. Clean the air screen.
2. Check the oil.
3. Adjust the carburettor.
4. Replace the fuel filter.

PROBLEM: Excessive vibration.

1. Replace the blade.
2. Check for loose engine bolts.
3. Decrease the air pressure in the tyres.
4. Adjust the carburettor.
5. Check for a damaged belt or damaged pulley. Replace the damaged parts.

PROBLEM: The grass does not discharge correctly.

1. Stop the engine. Clean the mower housing.
2. Raise the height of cut.
3. Replace or sharpen the blade(s).
4. Move the shift lever to a slower speed.
5. Move the throttle control to the FAST position.
6. Replace the spring for the blade idler.

7. Clean the extension tube and the connector tube (applies only to model with rear discharge grass bag).

PROBLEM: The mower housing does not cut level.

1. Check the air pressure in the tyres.
2. Adjust the level of the mower housing.
3. Check the front axle. If the front axle does not freely pivot, loosen the axle bolt(s).

PROBLEM: The mower blades will not rotate.

1. Check the mower drive belt. Make sure the belt is installed correctly.
2. Replace the mower drive belt.

PROBLEM: The unit will not move when the clutch is engaged.

1. Check the motion drive belt. Make sure the belt is installed correctly.
2. Adjust the clutch.
3. Replace the motion drive belt.

PROBLEM: The unit moves slower or stops when the clutch is engaged.

1. Adjust the clutch.
2. Replace the motion drive belt.

PROBLEM: When the clutch/brake pedal is released, belt noise can be heard.

1. Temporary belt noise does not change the operation of the unit. If belt noise is continuous, check the routing of the belt. Make sure the belt is inside all belt guides.
2. If the noise is continuous, adjust the clutch.

PROBLEM: The rear wheels spin over uneven terrain.

1. Check the front axle. If the front axle does not freely pivot, loosen the axle bolt(s).

PROBLEM: The transaxle is difficult to shift between gears with the engine running and the clutch depressed.

1. Check the clutch adjustment to make sure the belt stops when the clutch pedal is depressed with the transaxle in (N) neutral.
2. Check the belt guides around the transaxle drive pulley. Make sure the belt guides do not touch the pulley.

D	EG–Konformitätserklärung entsprechend der Richtlinie 98/37/EG entsprechend der Richtlinie 89/336/EEG entsprechend der Richtlinie 2000/14/EG entsprechend der Richtlinie 2002/88/EG	SF	EY:n vaatimustenmukaisuustodistus naudattaa direktiiviä 98/37/EY naudattaa direktiiviä 89/336/EMY naudattaa direktiiviä 2000/14/EY naudattaa direktiiviä 2002/88/EY
GB	EC Certificate of Conformity conforming to Directive 98/37/EC conforming to Directive 89/336/EEC conforming to Directive 2000/14/EC conforming to Directive 2002/88/EC	EE	EÜ vastavustunnistus Kooskõlas direktiiviga 98/37/EÜ Kooskõlas direktiiviga 89/336/EMÜ Kooskõlas direktiiviga 2000/14/EÜ Kooskõlas direktiiviga 2002/88/EÜ
F	Déclaration de conformité pour la CEE conforme à la directive 98/37/CE conforme à la directive 89/336/CEE conforme à la directive 2000/14/CE conforme à la directive 2002/88/CE	GR	Πιστοποιητικό Συμμόρφωσης ΕΚ σύμφωνα με την Οδηγία 98/37/ΕΚ σύμφωνα με την Οδηγία 89/336/ΕΟΚ σύμφωνα με την Οδηγία 2000/14/ΕΚ σύμφωνα με την Οδηγία 2002/88/ΕΚ
I	Certificato di conformita' comunitario conforme alla Direttiva 98/37/CE conforme alla Direttiva 89/336/CEE conforme alla Direttiva 2000/14/CE conforme alla Direttiva 2002/88/CE	H	EC Megfelelőségi Nyilatkozat a 98/37/EC Direktívának megfelelően a 89/336/EEC Direktívának megfelelően a 2000/14/EC Direktívának megfelelően a 2002/88/EC Direktívának megfelelően
E	Declaración de Conformidad según la directiva 98/37/CE según la directiva 89/336/CEE según la directiva 2000/14/CE según la directiva 2002/88/CE	LV	EK atbilstības sertifikāts atbilstība direktīvai 98/37/EK atbilstība direktīvai 89/336/EEK atbilstība direktīvai 2000/14/EK atbilstība direktīvai 2002/88/EK
NL	EG–Conformiteitsverklaring overeen komstig de Richtlijn 98/37/EG overeen komstig de Richtlijn 89/336/EEG overeen komstig de Richtlijn 2000/14/EG overeen komstig de Richtlijn 2002/88/EG	LT	EC atitikties sertifikatas atitinka direktyvą 98/37/EC atitinka direktyvą 89/336/EEC atitinka direktyvą 2000/14/EC atitinka direktyvą 2002/88/EC
S	EU–konformitetsintyg överensstämmande med direktiv 98/37/EG överensstämmande med direktiv 89/336/EEG överensstämmande med direktiv 2000/14/EG överensstämmande med direktiv 2002/88/EG	PL	Certyfikat zgodności EC zgodność z dyrektywą 98/37/EC zgodność z dyrektywą 89/336/EEC zgodność z dyrektywą 2000/14/EC zgodność z dyrektywą 2002/88/EC
N	EU–konformitetserklæring overholder direktiv 98/37/EF overholder direktiv 89/336/EØS overholder direktiv 2000/14/EF overholder direktiv 2002/88/EF	CZ	ES prohlášení o shodě v souladu se směrnici 98/37/ES v souladu se směrnici 89/336/EHS v souladu se směrnici 2000/14/ES v souladu se směrnici 2002/88/ES
DK	EU–overensstemmelseserklæring overholder direktiv 98/37/EF overholder direktiv 89/336/EØF overholder direktiv 2000/14/EF overholder direktiv 2002/88/EF		

erklären in alleiniger Verantwortung, daß das Produkt
declare in sole responsibility, that the product
déclarons sous notre seule responsabilité que le produit
dichiariamo sotto la nostra piena responsabilità che il prodotto
declaramos bajo responsabilidad propia que el producto
verklaren enig in verantwoording, dat het produkt
intygat med ensamansvar att nedanstående produkt
erklærer som eneansvarlig at produktet
erklærer som eneansvarlig, at produktet
ilmoitamme yksin vastaavamme, että tuote
Kinnitame omal vastutusel, et antud toode
έχοντας πλήρη ευθύνη, ότι το προϊόν
Saját kizárólagos felelősségünkre kijelentjük, hogy a termék
paziņojam ar pilnu atbildību, ka šis produkts
Pareiškiame kad gaminys
niniejszy oświadczamy, że produkt
prohlašuje na svou výlučnou odpovědnost, že produkt

312006x190A

(Fabrikat, Typ) (Make, model) (Marque, modèle) (Marca, tipo) (Marca,
modelo) (Fabricant, type) (Fabrikat, typ) (Fabrikat, type) (Mærke, type)
(Merkki, malli) (Mark, mudel) (Μάρκα, μοντέλο) (Gyártmány, modell)
(Izstrādājums, modelis) (Marké, modelis) (marka, model) (Druh, model)

auf das sich diese Erklärung bezieht, den einschlägigen Anforderungen der Richtlinie 98/37/EG, der Richtlinie 2000/14/EG (Konformitätsbewertungsverfahren gemäß Anhang VI), Richtlinie 2002/88/EG und der Richtlinie 89/336/EEG und aktuellen Ergänzungen entspricht

to which this certificate applies, conforms to the requirements of Directive 98/37/EC, Directive 2000/14/EC (conformity assessment procedure according to Annex VI), 2002/88/EC and Directive 89/336/EEC and current amendments

faisant l'objet de la déclaration est conforme aux prescriptions stipulées dans la Directive 98/37/CE, la directive 2000/14/CE (procédure d'évaluation de conformité selon l'annexe VI), la directive 2002/88/CE et la directive 89/336/CEE et ses modifications courantes

cui la presente dichiarazione si riferisce, è conforme ai requisiti di Direttiva 98/37/CE, della Direttiva 2000/14/CE (procedura di valutazione della conformità secondo l'Allegato VI), della Direttiva 2002/88/CE e della Direttiva 89/336/CEE e correnti emendamenti

al cual se refiere la presente declaración corresponde a las exigencias de la directiva 98/37/CE, de la directiva 2000/14/CE (los procedimientos de evaluación de conformidad según el Anexo VI), de la directiva 2002/88/CE y de la directiva 89/336/CEE y enmiendas vigentes

waarop deze verklaring betrekking heeft, overeenkomt met de eisen van de richtlijn 98/37/EG, de richtlijn 2000/14/EG (conformiteitsbeoordelingsprocedure volgens bijlage VI), de richtlijn 2002/88/EG en de richtlijn 89/336/EEG en huidige wijzigingen
för vilket detta intyg gäller, uppfyller kraven enligt direktiv 98/37/EG, direktiv 2000/14/EG (procedur för bedömning av överensstämmelse enligt tillägg VI), direktiv 2002/88/EG och direktiv 89/336/EEG samt allmänna tillägg

som denne erklæring vedrører, oppfyller krav i direktiv 98/37/EF, direktiv 2000/14/EF (konformitetsvurderingsprosedyre i henhold til annekset VI), direktiv 2002/88/EF og direktiv 89/336/EØS og aktuelle vedlegg

som denne erklæring vedrører, overholder krav i direktiv 98/37/EF, direktiv 2000/14/EF (konformitetsvurderingsprocedure iflg. Annex VI), direktiv 2002/88/EF og direktiv 89/336/EØF og ændringer

johon tämä ilmoitus liittyy, vastaa direktiivissä 98/37/EY, direktiivissä 2000/14/EY (Liitteen VI mukaisten yhdenmukaisuuden arviointitoimien), direktiivissä 2002/88/EY, direktiivissä 89/336/ETY ja nykyisissä muutoksissa mainittuja vaatimuksia

mille kohta tunnistus kehtib, on kooskõlas direktiiviga 98/37/EÜ, direktiiviga 2000/14/EÜ (vastavushindamismenetlus vastavalt lisale VI), 2002/88/EÜ ja direktiiviga 89/336/EMÜ koos jooksvate muudatustega

στο οποίο αφορά το παρόν πιστοποιητικό, πληροί τις απαιτήσεις της Οδηγίας 98/37/EK, της Οδηγίας 2000/14/EK (διαδικασία αξιολόγησης της συμμόρφωσης σύμφωνα με το Παράρτημα VI), 2002/88/EK και της Οδηγίας 89/336/EOK και τις τροποποιήσεις τους

amelyre ezen nyilatkozat vonatkozik, megfelel a 98/37/EC Direktíva, 2000/14/EC Direktíva (a VI Függeléknek megfelelő megfeleléség felbecsülési eljárás), 2002/88/EC valamint 89/336/EEC Direktívák és legújabb módosításai előírásainak.

Uz kuru attiecas šis sertifikāts, atbilst Direktīvas 98/37/EK, un Direktīvas 2000/14/EK prasībām (atbilstības novērtēšanas procedūra saskaņā ar Pielikumu VI), 2002/88/EK un Direktīvu 89/336/EEK un kārtējiem grozījumiem

Kuriam priklauso šis sertifikatas, atitinka direktyvos 98/37/EC, direktyvos 2000/14/EC (atitikties atestavimo procedūra pagal Annex (priedą) Nr.VI), 2002/88/EC ir direktyvos 89/336/EEC reikalavimus ir jų esamus pataisymus

którego dotyczy ten certyfikat, jest zgodny z wymaganiami dyrektywy 98/37/EC, dyrektywy 2000/14/EC (procedura oceny zgodności zgodnie z załącznikiem VI), 2002/88/EC i dyrektywą 89/336/EEC oraz bieżącymi poprawkami.

k němuž se vydává toto potvrzení, splňuje požadavky směrnice 98/37/ES, směrnice 2000/14/ES (postup posouzení shody dle přílohy VI), 2002/88/ES a směrnice 89/336/EHS v platném znění

Zursachgerechten Umsetzung der EG-Richtlinien wurde(n) folgende Norm(en) und/oder technische Spezifikation(en) herangezogen: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

To effect correct application of the EEC Directives, the following standards and/or technical specifications were consulted: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 and/or BS EN 1032:1997, ISO 11094:1991

Pour mettre en pratique les Directives de la CEE, il a été tenu compte de la/des norme(s) et/ou de la/des spécification(s) technique(s) suivante(s): EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

Per un'opportuno riscontro della normativa CEE, è (sono) stata(e) consultata(e) la(e) seguente(i) norma(e) e/o specifica(che) tecnica(che): EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

Con el fin de realizar de forma adecuada las exigencias en las normativas de la CEE (fué(ron) consultada(s) la(s) siguiente(s) normativa(s) y especificación(es) técnica(s): EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

Om de EG-richtlijnen in juiste vorm om te zetten, is/zijn van volgende norm(en) en/of technische specificatie(s) gebruik gemaakt: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

Följande norm(er) och/eller teknisk(a) specifikation(er) har legat till grund för ett fackmässigt införande av de i EU-normerna: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

Følgende normer og/eller tekniske spesifikasjoner er lagt til grunn for gjennomførelse av EU-retningslinjenes: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

Til gennemførelse af de EF-direktivet er følgende standard(er) og/eller tekniske specifikation(er) anvendt: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

ETY-direktiivin oikean soveltamisen varmistamiseksi on käytetty seuraavia standardeja ja/tai teknisiä erittelyjä: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996, EN ISO 3744:1995, EN ISO 11201; 1996

EMÜ direktiivide õiguspäraseks kohaldamiseks arvestati allpool nimetatud standardite ja/või tehniliste spetsifikatsioonidega: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 ja/või BS EN 1032:1997, ISO 11094:1991

Για λόγους ορθής εφαρμογής των Οδηγιών ΕΟΚ, ελήφθησαν υπόψη τα παρακάτω πρότυπα και/ή τεχνικές προδιαγραφές: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 και/ή BS EN 1032:1997, ISO 11094:1991

Az EEC Direktívák megfelelő alkalmazása céljából a következő szabványokat és/vagy műszaki előírásokat vizsgálták meg: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 és/vagy a BS EN 1032:1997, ISO 11094:1991

Lai panāktu pareizu EEK Direktīvu piemērošanu, ievēroti sekojoši standarti un/vai tehniskie noteikumi: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 un/vai BS EN 1032:1997, ISO 11094:1991

Tam kad pritaikyti atitinkamas Europos Sąjungos direktyvas, buvo atsižvelgta į sekančius standartus ir/arba techninius reikalavimus: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 ir/arba BS EN 1032:1997, ISO 11094:1991

Aby zapewnić właściwe zastosowanie dyrektyw EEC, sprawdzono następujące standardy i/lub specyfikacje techniczne: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 i/lub BS EN 1032:1997, ISO 11094:1991

Pro správnou aplikaci směrnic EHS bylo postupováno podle následujících norem a/nebo technických specifikací: EN 836/A2:2001, EN 836:1997, BS EN 1033:1996 a/nebo BS EN 1032:1997, ISO 11094:1991

Bauart	RASENTRAKTOR
Category	LAWN MOWER
Categorie	TONDEUSE A GAZON
Categoria	TORSAERBA
Categoría	CORTADORA DE CESPED
Categorie	GRASMAAIMACHINE
Kategori	GRÄSKLIPPARE
Kategori	GRESSKLIPPER
Kategori	GRÆSSLÅMASKINE
Kategoria	RUOHONLEIKKURI
Kategooria	MURUNIIDUK
Κατηγορία	ΧΟΡΤΟΚΟΠΤΙΚΟ LAWN
Kategória	FÜNYÍRÓGÉP
Kategorija	ZALAJA PŁĄWĖJS
Kategorija	ŽOLIAPJOVĖ
Kategoria	KOSIARKA DO TRAWY
Kategorie	SEKAČKA NA TRÁVNÍKY

Fabrikmarke / Make / Marque / Marca / Marca / Merk / Fabriksmärke /
Merke / Mærke / Merkki / Mark / Мάρκα / Gyártmány / Izstrādājums / Marké / Model / Druh

MASPORT

Typ / Type / Type / Tipo / Tipo / Model / Typ / Type / Type /
Tyypit / Tüüp / Τύπος / Tipus / Tips / Tipas / Typ / Typ

12,5 HP / 30

Erklärter Schalleistungspegel	
Declared sound power level	
Niveau de puissance acoustique déclaré	
Livello di potenza acustica dichiarato	
Nivel declarado de potencia acústica	100 dB (A)
Erkend geluidsvermogensniveau	
Angiven ljudnivå	
Deklarert lydnivå	
Deklareret lydniveau	
Ilmoitettu äänen tehotaso	
Deklareeritud helitase	
Δηλωθείσα στάθμη θορύβου	
Névleges hangerőszint	
Deklarētais skaņas jaudas līmenis	
Deklaruojamas triukšmo lygis	
Deklarowany poziom głośności dźwięku	
Deklarovaná hladina akustického výkonu	

Gemessener Schalleistungspegel	
Measured sound power level	
Niveau de puissance acoustique mesuré	
Livello di potenza acustica misurato	
Nivel medido de potencia acústica	99 dB (A)
Gemeten niveau van geluidssterkte	
Uppmätt ljudstyrksnivå	
Målt lydnivå	
Målt lydniveau	
Mitattu äänentehotaso	
Mõõdetud helitase	
Μετρηθείσα στάθμη θορύβου	
Mért hangerőszint	
Izmērītais skaņas jaudas līmenis	
Pamatuotas triukšmo lygis	
Zmierzony poziom głośności dźwięku	
Změřená hladina akustického výkonu	

Art des Räumwerks	SICHELMESSER
Type of cutting device	ROTATING BLADE
Genre du dispositif de déneigement	LAME ROTATIVE
Tipo di dispositivo di rimozione della neve	LAMA RUOTANTE
Tipo de dispositivo de remoción de nieve	CUCHILLA GIRATORIA
Type sneeuwverwijderingsapparaat	ROTEREND BLAD
Typ av snöavlägsningsanordning	ROTERANDE BLAD
Type freserredskap	ROTERENDE BLAD
Type snefjernelsesordning	ROTERENDE BLADE
Lumenpoistovälineen tyyppi	PYÖRIVÄ TERÄ
Lõikeseadme tüüp	PÖÖRLEV TERA
Τύπος διάταξης κοπής	ΠΕΡΙΣΤΡΕΦΟΜΕΝΗ ΛΕΠΙΔΑ
Vágószerkezet típusa	KÖRFORGÓ KÉS
Griezēj ierīces tips	ROTĒJOŠS ASMENS
Pjovimo prietaiso tipas	BESISUKANTIS PEILIS
Typ urządzenia tnącego	OBROTOWE OSTRZE
Typ řezného mechanismu	ROTUJÍCÍ NŮŽ

Schnittbreite / Width of cut / Largeur de coupe / Ampiezza di taglio /	
Ancho de corte / Snijbreedte / Skärbredd /	76 cm
Snittbredde / Skærebrede / Leikkuujäljen leveys / Lõike laius / Εύρος κοπής /	
Vágásszélesség / Griešanas platums / Pjovimo plotis / Szerokość cięcia / Šírka řezu	

Name und Adresse der in der Europäischen Gemeinschaft etablierten benannten Stelle für
Richtlinie 2000/14/EG
Name and address of the notified body established in the European Community for Directive
2000/14/EC
Nom et adresse de l'organisme notifié établi dans la Communauté européenne pour la directive
2000/14/CE
Nome e indirizzo dell'organismo notificato stabilito nella Comunità Europea per Direttiva
2000/14/CE
Nombre y dirección del organismo notificado establecido en la Comunidad Europea para la
Directiva 2000/14/CE
Naam en adres van de aangemelde instantie gevestigd in de Europese Gemeenschap voor
richtlijn 2000/14/EG
Namn och adress på godkännande organ inom EU för föreskrift 2000/14/EG
Navn og adresse til godkjennende organ innen EU for direktivet 2000/14/EF
Navn og adresse på det bemyndigede organ, som er etableret i De Europæiske Fællesskaber for
direktiv 2000/14/EF
Euroopan yhteisön alueella olevan ilmoitetun laitoksen nimi ja osoite direktiivin 2000/14/EY
mukaisesti
Euroopa Ühenduses registreeritud teavitatud asutuse nimi ja aadress direktiivi 2000/14/EÜ asjus
Ονομασία και διεύθυνση της αρμόδιας υπηρεσίας η οποία θεσπίστηκε στην Ευρωπαϊκή
Κοινότητα για την Οδηγία 2000/14/EK
Az Európai Közösségben a 2000/14/EC Direktívához létrehozott értesített testület neve és címe
Par Eiropas Kopienas Direktīvu 2000/14/EK atbildīgās reģistrētās institūcijas nosaukums un
adrese
Juridinio asmens pavadinimas ir adresas, pripažinto pagal Europos Sąjungos direktyvą Nr.
2000/14/EC
Nazwa i adres powiadomionego organu Wspólnoty Europejskiej odpowiedzialnego za dyrektywę
2000/14/EC
Název a adresa notifikovaného orgánu založeného v Evropském společenství dle směrnice
2000/14/ES

TÜV Industrie Service GmbH
TÜV SÜD Gruppe
Westendstrasse 199
D-80686 München

Warrensburg, MO USA 2005.01.10
YYYY MM DD

 General Manager

(Ort und Datum der Ausstellung)

(Place and date of issue)

(Lieu et date)

(Luogo e data del rilascio)

(Lugar y fecha de expedición)

(Plaats en datum van de verklaring)

(Utfärdat ort/datum)

(Sted og datum)

(Sted og dato)

(Ilmoitus annettu paikka ja päiväys)

(Väljaandmise koht ja kuupäev)

(Τόπος και ημερομηνία έκδοσης)

(Kiadás helye és dátuma)

(Izlaides vieta un datums)

(Vieta ir data)

(Data i miejsce wystawienia)

(Místo a datum vydání)

(Name, Funktion und Unterschrift des Befugten)

(Name and job function of authorized person)

(Nom, fonction et signature de la personne autorisée)

(Nome, qualifica e firma dell'incaricato)

(Nombre, función y firma del encargado)

(Naam, functie en handtekening van bevoegd persoon)

(Namn, befattning och underskrift av behörig medarbetare)

(Bemyndigtes navn, funksjon og underskrift)

(Bemyndigedes navn, funktion og underskrift)

(Valtuutetun henkilön nimi ja tehtävä)

(Volitatud isiku nimi ja ametikoht)

(Ονοματεπώνυμο και ιδιότητα του εξουσιοδοτούμενου ατόμου)

(A meghatalmazott személy neve és munkahelyi beosztása)

(Pilnvarotās personas vārds un darba funkcijas)

(Igalīoto atstovo vardas ir pareigos)

(Nazwa i stanowisko uprawnionej osoby)

(Jméno a funkce autorizované osoby)