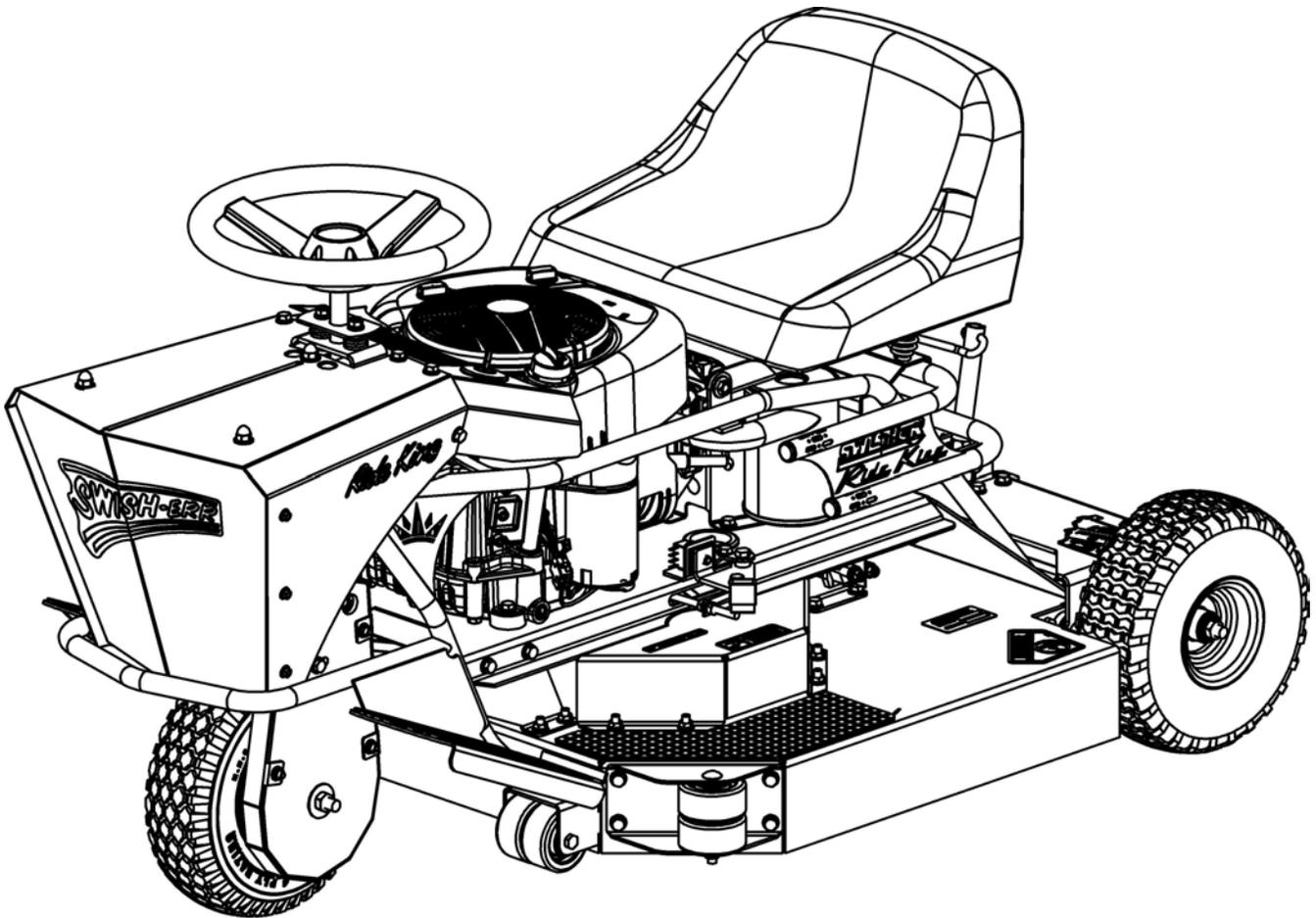


SWISHER®

TWR10532BS, TWR10532BS-CA

10.5 HP (Briggs & Stratton) – 32" Deck

Ride King



SWISHER ACQUISITION INC.
1602 CORPORATE DRIVE, WARRENSBURG MISSOURI 64093
PHONE: 660-747-8183 FAX: 660-747-8650
TOLL FREE: 1-800-222-8183

Manufacturing quality lawn care equipment since 1945,
Celebrating over 70 years of innovation



OWNER'S MANUAL

STARTING SERIAL # L116-315001

LIMITED WARRANTY

The manufacturer's warranty to the original consumer purchaser is:

This product is free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original consumer purchaser.

As required by CFR § 1060.120, the fuel system related components, which have been certified to this equipment by SAI are to be free of defects in material and workmanship for a period of two (2) years from the date of purchase by the original consumer purchaser.

We will repair or replace, at our discretion, parts found to be defective due to materials or workmanship. This warranty is subject to the following limitations and exclusions:

- 1) Engine Warranty All engines utilized on our products have a separate warranty extended to them by the individual engine manufacturer. Any engine service warranty is the responsibility of the engine manufacturer and in no way is Swisher or its agents responsible for the engine warranty. The Briggs & Stratton Engine Service Hotline is 1-800-233-3723.

- 2) Commercial Use **This product is not intended for commercial use and carries no commercial warranty.**

- 3) Limitations This warranty applies only to products which have been properly assembled, adjusted, and operated in accordance with the instructions contained within this manual. This warranty does not apply to any product of Swisher that has been subject to alteration, misuse, abuse, improper assembly or installation, shipping damage, or to normal wear of the product.

- 4) Exclusions Excluded from this warranty are normal wear, normal adjustments, normal maintenance, and battery*(see battery section).

In the event you have a claim under this warranty, you must return the product to an authorized service dealer. All transportation charges, damage or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any questions concerning this warranty, please contact us toll-free at 1-800-222-8183. The model number, serial number, date of purchase and the name of the authorized Swisher dealer from whom you purchased the mower will be needed before any warranty claim can be processed.

THIS WARRANTY DOES NOT APPLY TO ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR ALL EXPRESSED WARRANTIES. Some states do not allow the limitation of consequential damages or limitations on how long an implied warranty may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state-to-state. This is a limited warranty as defined by the Magnuson-Moss Act of 1975.

TABLE OF CONTENTS

LIMITED WARRANTY	2	OPERATION & FEATURES	14
TABLE OF CONTENTS	3	Features	14
INTRODUCTION	4	Starting	15
General	4	Grass Height of Cut	16
Before Operating	4	Deck Adjustment	16
Uncrating & Assembly	5	Drive Wheel Detent	16
SYMBOLS & DECALS	6	Steering	17
SAFETY INSTRUCTIONS	7	Fuel Shut-Off Valves	17
General use & Safety Rules	7	SERVICE & ADJUSTMENTS	18
Children Safety	8	Jackshaft Belt Replacement	18
Slope Operation	8	Deck Belt Replacement	19
General use & Safety Rules	9	Drive Belt Replacement	20
CUSTOMER RESPONSIBILITY	10	WIRING SCHEMATIC	21
Operator Presence	10	PARTS BREAKDOWN	22-30
Tires	10	TROUBLESHOOTING	31-32
Blade Maintenance	10	MOWER IDENTIFICATION	33
Battery /Charging Tips	10 - 11	REPLACEMENT PARTS	34
V-belts	12	NOTES	35
Engine	12	SWISHER HISTORY	36
Maintenance Schedule	13		
Transporting Safety	12		
SPECIFICATIONS	13		
Maintenance	13		

INTRODUCTION

Congratulations!

Thank you for purchasing a Swisher Three Wheel Rider. This machine is built for the greatest efficiency in smaller residential settings and is perfect for saving on storage space. Innovative 360° turning drive wheel coupled with a worm style gearbox contributes to the machine's performance and maneuverability.

This manual is a valuable document. Following the instructions for use, service, maintenance, etc. can greatly increase the lifespan of your machine.

NOTE:

If you have never used a lawn mower before, refer to the Operation Controls section of this manual before attempting to operate one for the first time.

General:

In this operator's manual, left and right, backward and forward are used in relation to the normal operator's position.

Read Before Operating:

- This machine is constructed only for mowing grass on lawns and other free and even ground without obstacles. This machine is not intended for commercial use. The manufacturer's directions concerning operation, maintenance and repairs must be carefully followed.
- This machine must only be operated, maintained and repaired by persons that are familiar with the machine's special characteristics and who are well versed in safety instructions.
- Accident prevention regulations, other general safety regulations, occupational safety rules and traffic regulations must be followed without fail.
- Unauthorized modifications to the design of the machine may absolve the manufacturer from liability for any resulting personal injury or property damage.
- Read engine manufacturer's operating and maintenance instructions.
- Read and observe all safety instructions on your mower and in the manual.
- Check engine oil.
- Check the fuel cap to ensure that it is in place.
- Know how to control the "drive" of the machine with the pedal.
- Be sure mower blades are off – Lever in disengaged position.
- Know how to stop the engine – Turn key to off.
- Know how to allow the machine to mow in reverse – Key position.
- Know how to stop the unit – Return pedal to disengaged position.

IMPORTANT:

This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

INTRODUCTION

Uncrating & Assembly:

Tools Required:

- Tire pressure gauge
- Nail bar or claw hammer
- Wire snips

To remove the mower from the crate:

- Dispose of top and side panels of the crate.
- Remove loose parts and packing material.
- Cut any banding or strapping that may be holding the mower to the crate.
- Disconnect the spark plug wire and place where it cannot make a connection.
- Raise the mower deck to its highest position.
- Disengage the drive wheel by detenting the pin from the drive sprocket on the wheel. **SEE INSTRUCTION ON PAGE 16.**
- Carefully push the mower off the crate to a safe and level area.
- Check engine oil. All engines are filled with oil and tested at the factory. Verify oil level and add if necessary before starting engine. **SEE ENGINE OWNER'S MANUAL.**
- Prepare and install the battery. Follow the instructions provided with the battery. If the battery is put into service after the "month & year" of the date on the battery, then it may need to be charged with a 12 volt charger for a minimum of one hour, but no more than 2 hours at a rate of 6 to 10 amps. **SEE CHARGING TIPS ON PAGE 11.**
- Re-engage the pin into the drive wheel until you hear it click into position on the sprocket. Check to make sure the pin is secure by pushing on the machine to see if it will roll. If the machine does not roll freely then the pin is secure. **SEE INSTRUCTION ON PAGE 16.**
- Reconnect spark plug wire.
- Check tire pressure on all three wheels. **REFER TO UNIT SPECIFICATIONS TABLE ON PAGE 12.**
- **Read all operating instructions, safety instructions, and customer responsibilities before operating this machinery.**

SYMBOLS & DECALS

⚠ WARNING

AVOID SERIOUS INJURY OR DEATH

- Read and follow owner's manual.
- Keep hands and feet away from discharge area and blades.
- Avoid sudden turns, sudden changes in direction, and sudden changes in speed.
- Go up and down hills (15° maximum), not across.
- If machine stops going uphill, stop blades and back down slowly.
- Look down and behind before and while moving backwards.
- Do not operate when children or others are around.
- Never carry children or others as passengers.
- Keep safety devices (guards, shields, deflectors, switches, etc.) in place and operating.
- Remove objects that could be thrown by blades.
- Always disengage drive pedal before leaving seat.
- Be sure blades and engine have stopped before placing hands or feet near blades.
- Know safe operating instructions before starting engine.

21011

21011 - Warning Decal

IMPORTANT

Operator must be seated
to start engine.

OD73

Operator Must Be Seated Decal - OD73

NOTICE

DO NOT ALTER ELECTRICAL SYSTEM
WRONG WIRING CONNECTIONS WILL DAMAGE
ELECTRICAL COMPONENTS AND MAY MAKE
THE SAFETY SWITCHES INOPERATIVE

OD74

Notice Do Not Alter Wiring Decal - OD74

⚠ CAUTION

UNSTABLE SURFACE

NO STEP

OD11

No Step Decal - OD11

⚠ WARNING

FLYING DEBRIS

EYE INJURY AND/OR CUTS
POSSIBLE.
KEEP PEOPLE CLEAR OF AREA
WHEN MOWING.
USE CHUTE GAURD/COVER OR
COMPLETE GRASS CATCHER
WHEN MOWING.
DEBRIS MAY CAUSE INJURY

OD43

Flying Debris Decal - OD43

DANGER

KEEP HANDS and FEET AWAY

OD55

Triangle Danger Decal - OD55

SWISHER

A TRADITION OF QUALITY SINCE 1945

www.swisherinc.com

MODEL NO.

SERIAL NO.

Serial # ID Tag

SWISHER

EMISSION CONTROL INFORMATION
THIS EQUIPMENT MEETS US EPA EVAP STANDARDS:

EPA / CARB Certification Decal

SAFETY INSTRUCTIONS

These instructions are for your safety. Read them carefully.



This Safety Alert Symbol indicates important messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury.

General Use:

- Read all instructions in this operator's manual and on the machine before starting it. Ensure that you understand them and then abide by them.
- Learn how to use the machine and its controls safely and learn how to stop quickly. Also learn to recognize the safety decals.
- Only allow the machine to be used by adults who are familiar with its use.
- Make sure nobody else is in the area of the machine when you start the engine, engage the blades, or drive the machine.
- Stop the machine if someone enters the work area.
- Clear the area of objects such as stones, toys, steel wire, etc. that may become caught in the blades or thrown.
- **DO NOT use this machine without the Discharge Chute in place.**
- Stop the engine and disconnect the spark plug before cleaning the discharge deck.
- Never take passengers. The machine is only intended for use by one person.
- Always look around before and during reversing maneuvers.
- Slow down before turning.
- Disengage the blades when not mowing.
- Be careful when rounding fixed objects, so that the blades do not hit them.
- Only operate the machine in daylight or other well-lit conditions.
- Keep the machine a safe distance from holes or other irregularities in the ground.
- Never use the machine if you are tired, if you have consumed alcohol or if you are taking other drugs or medications that can affect your vision, judgment or coordination.
- Beware of traffic when working near or crossing a road.
- Never leave the machine unsupervised with the engine running.
- Always shut down the blades, disengage the drive pedal, stop the engine and remove the ignition key before leaving the machine.
- Never allow children or other persons not trained in the use of the machine to use or service it. Local laws may regulate the age of the user.
- Make sure that you have first aid equipment close at hand when using the machine.
- Never use the machine when barefoot. Always wear protective shoes or boots.
- Always wear protective glasses or a full visor when assembling or driving.
- Always wear ear protection.
- Never wear loose clothing that can get caught in moving parts.

NOTE:

Refer to the Operation Controls section of this manual before attempting to operate the mower for the first time.

SAFETY INSTRUCTIONS

Children:

- Serious accidents may occur if you fail to be on guard for children in the area of the machine. Children are often attracted to the machine and mowing work.
- Never assume that children will stay put where you last saw them.
- Keep children away from the mowing area and under close supervision by another adult.
- Shut off the machine if children enter the work area.
- Never allow a child to ride with you.
- Never allow children to operate the machine.
- Be extra cautious near corners, bushes, trees or other objects that block your view.

Slope Operation:

- Remove obstacles such as stones, tree branches, etc.
- Mow up and down, not side to side. Never drive the mower on terrain that slopes more than 15 degrees. **SEE SLOPE GUIDE ON PAGE 35.**
- Avoid starting or stopping on a slope. If the tires begin to slip, shut down the blades and drive slowly down the slope.
- Always drive evenly and slowly on slopes.
- Make no sudden changes in speed or direction.
- Avoid unnecessary turns on slopes, and if it proves necessary, turn slowly and gradually downward, if possible.
- Watch for holes, ruts or bumps. On uneven terrain, the machine can tip more easily. Long grass can hide obstacles.
- Drive slowly and use small movements of the steering wheel.
- Do not mow wet grass. It is slippery, and the tires can lose their grip, allowing the machine to slide.
- Do not try to stabilize the machine by putting a foot on the ground.
- Never attempt to operate the machine while standing/walking next to it or not being properly seated in the operators position. Doing so could lead to injury or loss.

Remember:

The operator is responsible for avoiding dangers or accidents.

WARNING



When using the machine, approved personal protective equipment shall be used. Personal protective equipment cannot eliminate the risk of injury, but it will reduce the degree of injury if an accident does occur. Ask your retailer for help in choosing the right equipment.



Remember:

The operator is responsible for avoiding dangers or accidents.

SAFETY INSTRUCTIONS

General Use Continued...

Mowing Safety:

- **WARNING – Gasoline is highly flammable.**
 - Store fuel in containers specifically designed for this purpose.
 - Refuel outdoors only and do not smoke while refueling.
 - Add fuel before starting the engine. Never remove the cap of the fuel tank or add gasoline while the engine is running or when the engine is hot. Allow the engine and exhaust to completely cool down before filling.
 - If gasoline 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 gasoline vapors have dissipated.
 - Replace all fuel tanks and container caps securely.
- Replace faulty or damaged muffler.
- Before operating, 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.
- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.

Maintenance & Storage:

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Never store equipment with gasoline in the tank inside a building(s) where fumes can reach an open flame or spark.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the engine, muffler, battery compartment and gasoline in storage area free of grass, leaves or excessive grease.
- Check the grass chute frequently for wear or deterioration. Replace if necessary.
- Replace worn or damaged parts for safety.
- If the fuel tank has to be drained, this should be done outdoors in an approved gasoline container and properly disposed of.

Training:

All drivers should seek and obtain professional and practical instruction. Such instruction should emphasize:

- The need for care and concentration when working with ride-on machines.
- 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.

Operation:

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
- Never operate the machine with defective guards or without safety protective devices in place.
- Do not change the engine governor settings or over-speed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.
- Disengage the mower blades, stop the engine and disconnect the spark plug wire(s) and remove the ignition key:
 - Before clearing blockages or unclogging chute.
 - Before checking, clearing or working on the machine.
 - After striking a foreign object, inspect the machine for damage and make repairs before restarting and operating the equipment.
 - If the machine starts to vibrate abnormally (check immediately), stop the engine and disengage drive to attachment.
 - Before refueling.
 - Before removing the grass chute.
 - Before making height adjustment.

CUSTOMER RESPONSIBILITIES

Operator Presence System:

Be sure to check that the operator presence and interlock systems are working properly before each use. If your mower does not function as described, repair the problem immediately.

- The engine should not start unless the drive pedal is disengaged, the blade lever is disengaged (forward) and the operator is in the seat.
 - See OPERATION FEATURES section of this manual.
- When the engine is running any attempt by the operator to leave the seat will cause the engine to shut off, regardless of the blades being engaged.
- When the engine is running and the blades are engaged any attempt by the operator to mow in a generally rearward direction will shut off the engine unless the key is first turned to the “mow in reverse” position.
 - See OPERATION FEATURES section of this manual.

Tires:

- Maintain proper air pressure in all tires (SEE SPECIFICATIONS section).
- Keep tires free of gasoline, oil or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

Blade Maintenance:

For best results, mower blades must be kept sharp.
Replace bent or damage blades.

- Safely raise front of mower and place on secure jack stands.
- Hold or block blade from turning.
- Loosen blade bolt and remove blade.
- Replace blade (SEE SPECIFICATIONS).

Battery:

To clean battery and terminals

- Remove the BLACK terminal guard.
- Disconnect the BLACK battery cable and locate it where it cannot come into contact with the battery.
- Remove the RED terminal guard.
- Disconnect the RED battery cable and locate it where it cannot come into contact with the battery.
- Remove the battery.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until shiny.
- Coat terminals with Dielectric Grease or Petroleum Jelly. (This helps seal and prevent corrosion.)
- Reinstall battery.
- Reconnect the battery cables. Attach the RED cable first then the BLACK cable.



CAUTION

Stop engine, disengage drive pedal, and remove ignition key for safety. Disconnect spark plug wire. Wear heavy, thick gloves when holding onto blade. Avoid the sharp edge of the blade.



WARNING

When it is necessary to raise the mower for any repair or service, use jackstands to provide adequate support. DO NOT rely on hydraulic or mechanical jacks.



WARNING

The battery contains sulfuric acid and electrolytes which are poisonous and corrosive.

CHARGING TIPS

- To avoid a battery explosion, never attempt to charge a frozen battery.
- **Warning:** Gel and AGM (Absorbed Glass Mat) batteries require a voltage-limited charger. Charging a Gel or AGM battery on a typical shop charger, even one time, may greatly shorten its life.
- **Important:** Never overcharge batteries. Excessive charging will shorten battery life.
- Prior to charging, read the manufacturer's instructions for proper charger hook-up and use.
- Turn off charger prior to hookup to avoid dangerous sparks. **PROTECT YOUR EYES!**
- **Warning:** If the electrolyte is accessible, verify that plates are covered before beginning to charge. At the end of charge, add distilled water as needed to bring levels to the proper height. If water is added, charge for an additional 30 minutes to mix. If electrolyte levels are low but battery is not accessible, remove battery from service.
- The maximum charge rate in amperes should be no more than 1/3 of the battery's reserve capacity minute rating. If the terminal voltage exceeds 16.0 volts while charging, reduce the charge rate.
- Continue charging and reduce the rate as needed until a 2 hour period results in no increase in voltage or decrease in current.
- If violent gassing or spewing of electrolyte occurs or the battery case feels hot to the touch, temporarily reduce or halt charging.

VOLTAGE		STATE OF CHARGE	APPROX. BATTERY CHARGING TIME * TO FULL CHARGE AT 80°F/27°C			
STANDARD BATTERY			MAXIMUM RATE AT			
6 V	12 V		50 AMPS	30 AMPS	20 AMPS	10 AMPS
6.3	12.6	100%	FULL CHARGE			
6.2	12.4	75%	20 MIN.	35 MIN.	48 MIN.	90 MIN.
6.1	12.2	50%	45 MIN.	75 MIN.	95 MIN.	180 MIN.
6	12	25%	65 MIN.	115 MIN.	145 MIN.	280 MIN.
5.9	11.8	0%	85 MIN.	150 MIN.	195 MIN.	370 MIN.

* Test wet batteries every 4-6 months and recharge if necessary. Always test and charge if necessary before installation.

CUSTOMER RESPONSIBILITIES

V-Belts:

Check V-belts for deterioration and wear before each use and replace if necessary. Replace belts if they begin to slip from wear. SEE SPECIFICATION for belt part numbers and SERVICE section of this manual for instructions on how to replace the belt.

Engine:

REFER TO YOUR ENGINE OWNERS MANUAL.

Overall Unit Care:

- Reduce the risk of fire by removing grass, leaves and other debris that may have accumulated on the machine.
- Allow the machine time to cool before cleaning or putting it in storage.
- Wash mower periodically. Clean above and below deck.
- Keep all electrical connections clean and tight.

Driving & Transport on Public Roads:

- Check applicable road traffic regulations before driving and transporting on public roads.
- If the machine is transported, you should always use approved fastening equipment and ensure that the machine is well anchored to the towing vehicle.
- The cutting deck should also be lowered to the lowest position and the drive pedal disengaged during transport.

Specifications

GASOLINE CAPACITY AND TYPE	2 Qt. PLASTIC TANK; UNLEADED REGULAR
OIL TYPE (SPI-SF-SJ):	SEE ENGINE MANUAL
SPARK PLUG	SEE ENGINE MANUAL
SPEED	0 – 3 mph
TIRE SIZE	FRONT: 4.10 / 3.50 – 5 REAR: 11 x 4.00 – 4
TIRE PRESSURE	FRONT: 50 psi Max REAR: 24 psi Max
BATTERY	12V / Lead Acid / Type 14A-A2
BLADE BOLT TORQUE	35 ft. lbs
CUTTING HEIGHT	Approximately 1.5" – 5"
DECK WIDTH	32"
BLADES	Left: 17 ½" High Lift Right: 15 ½" High Lift
PARKING BRAKE	Integrated into the disengage side of the drive pedal
REAR AXLE	Welded / 3/16" sheet metal; pivoting for deck adjustment
SEAT	Low back, Non-adjustable
TRANSMISSION	90° worm gearbox, 10:1 ratio
DECK LIFT	Hand operated crank style
UNIT MEASUREMENTS	LENGTH: 57" WIDTH: 41.5" (Including Grass Chute) HEIGHT: 30.25" WEIGHT: 340 lbs

CUSTOMER RESPONSIBILITIES

Maintenance Schedule

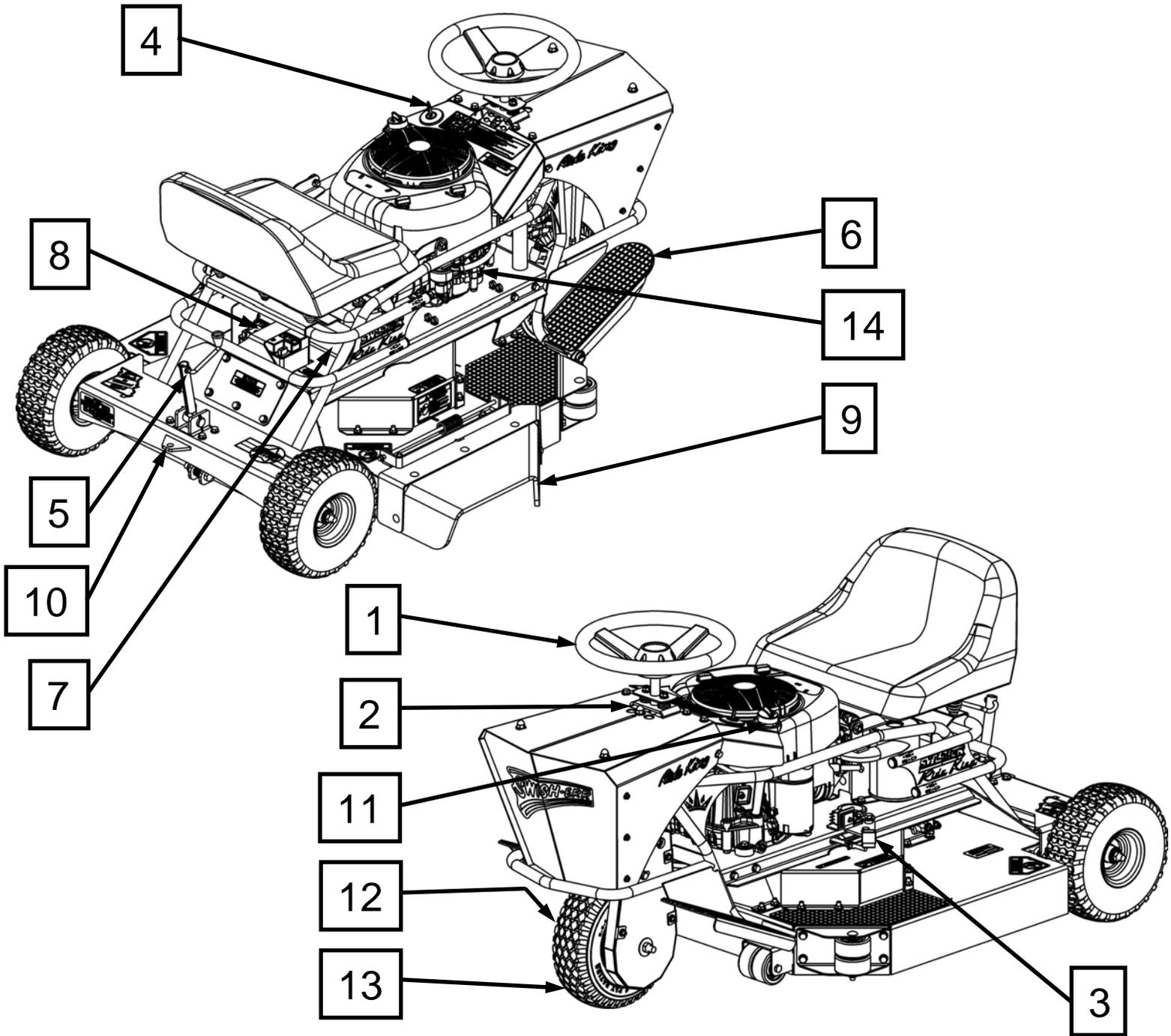
	Before Each Use	8 Hours	25 Hours	50 Hours	100 Hours	Season	Before Storage
Check Brake Pad Operation	X		X				
Check Tire Pressure	X	X					
Check Operator Presence	X						
Check for Loose Fasteners	X				X		X
Sharpen/Replace Mower Blades			X3				
Check Battery			X				X
Clean Battery & Terminals			X				X
Check Belts	X						
Check Engine Oil	X	X					
Change Engine Oil w/ filter				X1,2			
Change Engine Oil w/o filter			X1,2				
Replace Oil Filter					X1,2		
Clean Air Filter			X2				
Inspect Muffler				X			
Clean Engine Cooling Fins					X2		
Replace Spark Plug					X	X	
Replace Fuel Filter						X	

1 – Change more often when operating under a heavy load or in high ambient temperatures.

2 – Service more often when operating in dirty or dusty conditions.

3 – Replace blades more often when mowing in sandy soil.

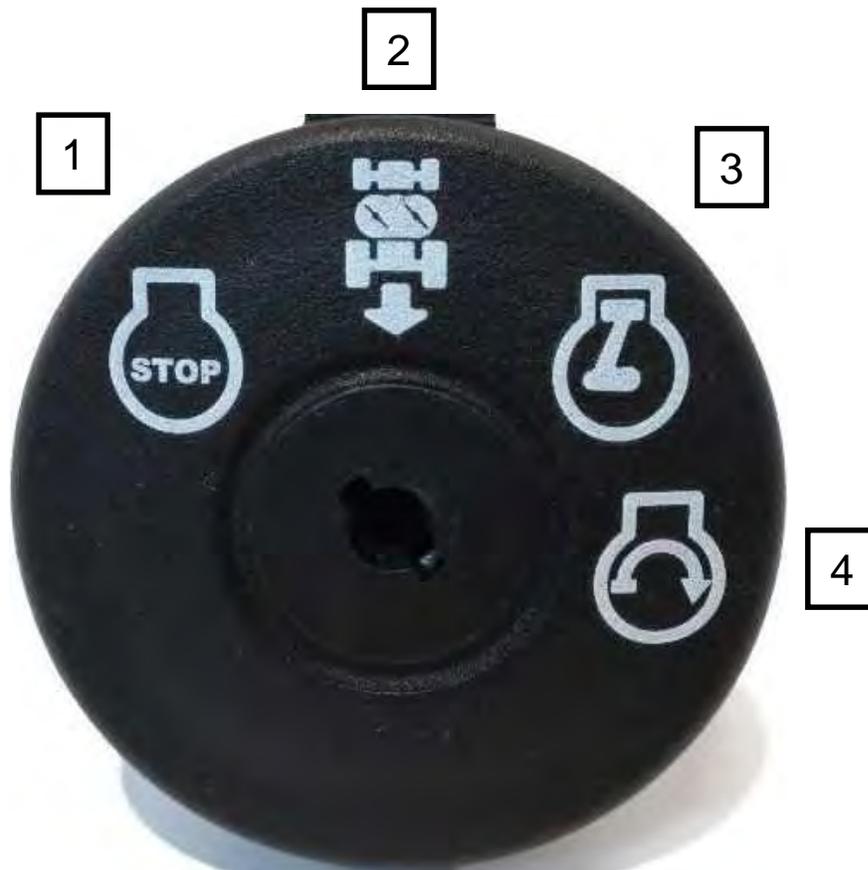
OPERATION & FEATURES



1. Steering Wheel – Used to control the direction of the machine.
2. Tiltable Steering Wheel Adjustment
3. Blade Engage Lever – Used to engage or disengage the deck blades.
4. Ignition Switch – Used to start or stop the engine.
5. Deck Lift adjustment – Used to raise and lower the cutting deck.
6. Drive Pedal – Sets the speed of the mower (in both forward and reverse directions).

7. Fuel Tank – 2 Qt.
8. Battery
9. Discharge Chute – Directs debris
10. Rear Hitch Mount
11. Oil Dipstick – Check oil fluid level
12. Drive Wheel Detent Latch/Pin (not shown) – used to allow machine to roll freely
13. 360° Drive Wheel
14. Choke & Throttle Control – Controls speed/RPM of engine.

OPERATION & FEATURES



KEY SWITCH

1. Power Off position
2. Mow-in-reverse position – will NOT shut off engine when mowing in a generally rearward direction.
3. Engine Run position – Engine WILL shut off if mowing in a generally rearward direction.
4. Engine Start position

NOTE:

If you have never used a tractor or zero turn mower before, refer to the Operation Controls section of this manual before attempting to operate one for the first time.

Starting:

- Before starting the vehicle, be sure all people are clear of the area.
- Operator must be sitting in the seat. Drive pedal must be disengaged (up position). Blade engagement lever must be in the disengage position (forward position).
- Turn the ignition key to position four and hold until engine runs. Depending on weather and run conditions the choke lever may need to be engaged until the engine is running.
- Once started, the key will automatically return to position three. Set engine RPM to maximum (Fast) and then engage the blades. Depress the drive pedal to begin mowing.
- In order to mow in a generally rearward direction you must first turn the key to position two. Return the key to position three when finished mowing in reverse.

OPERATION

Grass Height & Cutting Suggestions:

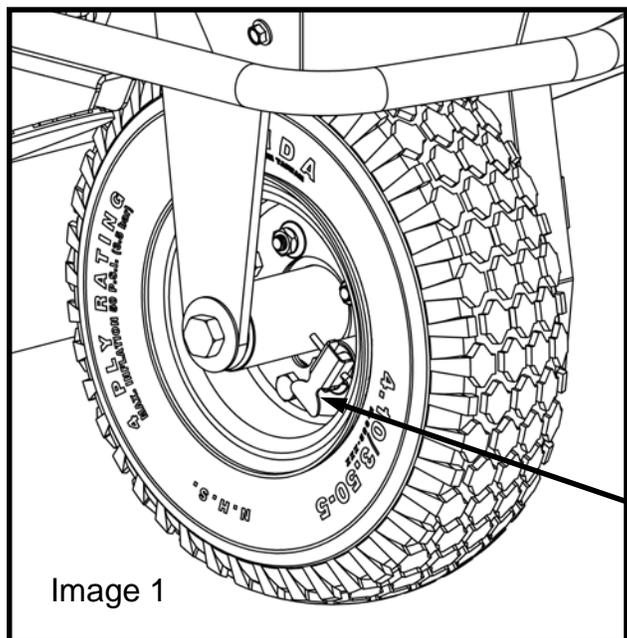
- Do not attempt to cut wet grass.
- The average lawn should be cut to 2 ½” during the cool season and to over 3” during the hot months. For healthier and better looking lawns, mow often and after moderate growth.
- As a rule, never cut more than 1/3 of the total grass blade length. Correct mowing height can reduce weeds and lawn disease.
- For best performance, grass over 6 inches in height should be mowed twice. The first cut should be set relatively high and the second set to the desired height.
- For best looking results and a healthier lawn, mow in different directions each time you mow.
 - Example: If you mow going north and south, the next time you should mow going east and west.

Deck Adjustment

- The deck adjustment is done at one single point on the rear axle of the mower.
- To raise the deck, turn the adjustment handle clockwise. To lower the deck, turn the handle counter-clockwise.
- Additional adjustment can be made by repositioning the blade spacers located on the blade spindle.

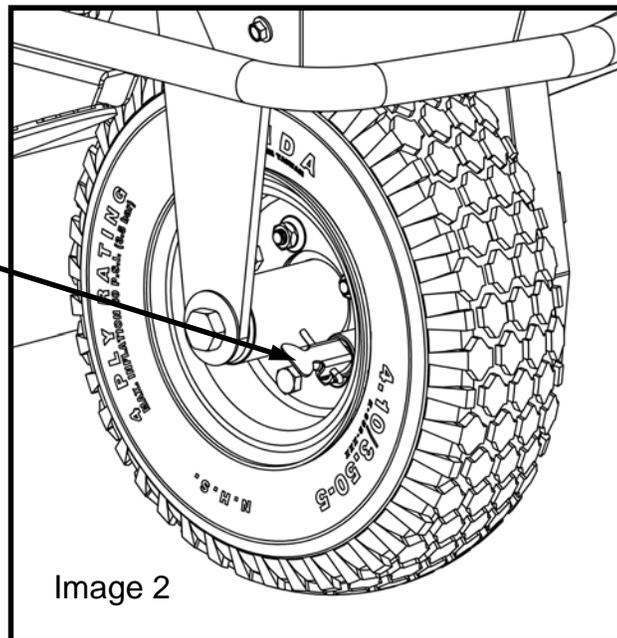
Drive Wheel Detent

- Before ever attempting to disengage the drive wheel from the sprocket, first make certain that the engine is shut off, key is removed and the machine is resting on level ground.
- Image one shows the wheel with the pin/latch engaged into the sprocket. This allows the machine to drive when the engine is running and the drive pedal is depressed.
- Image two shows the wheel with the pin/latch disengaged. This allows the wheel to spin freely from the sprocket, enabling the machine to roll freely.
- When reengaging the pin/latch, the pin should have an audible “click” once it is finally engaging the sprocket. To check this you can push on the machine, it should not roll freely at this point.



disengaged

engaged

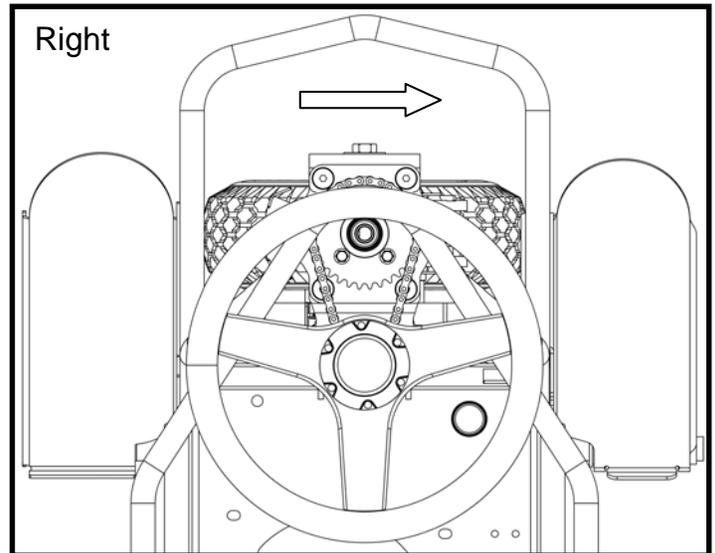
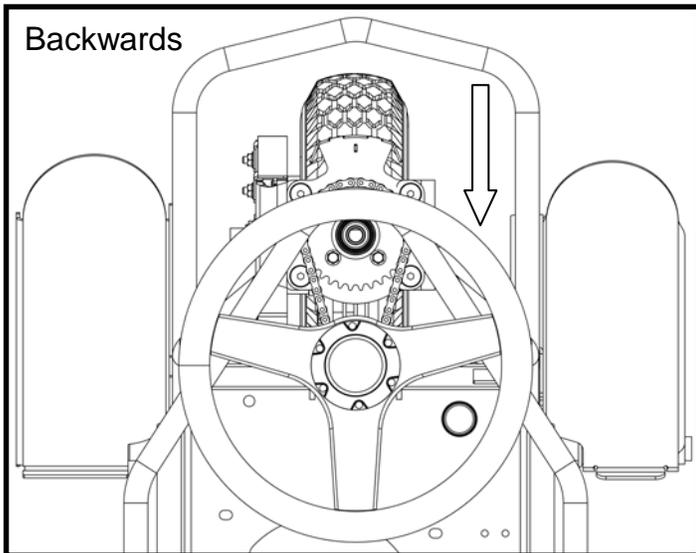
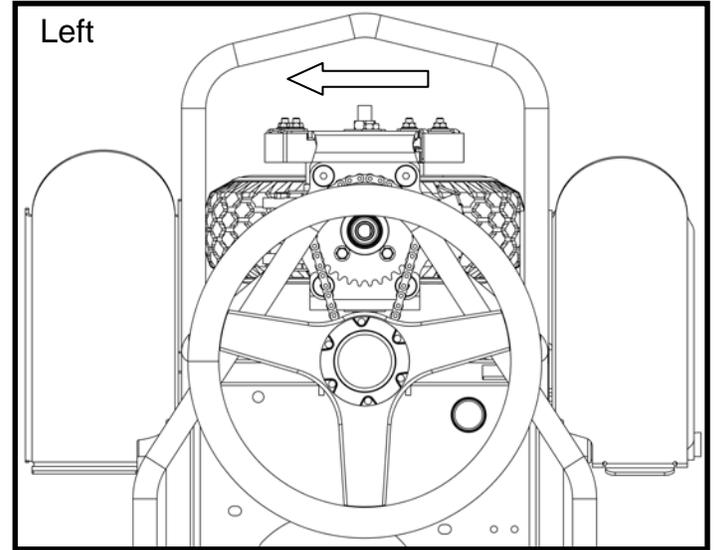
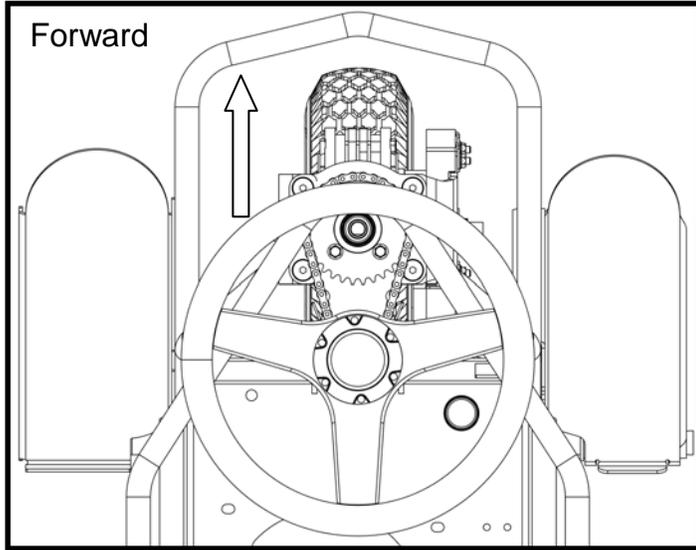


OPERATION

Steering

- Be familiar with all steering, its function and how to operate the machine before beginning to operate.
- The drive wheel turns 360° but the steering wheel is a 2:1 ratio to the drive wheel. This means for every two turns of the steering wheel the drive wheel will turn one complete revolution (360°).
- **IMPORTANT:** Always be aware of which direction the drive wheel is facing before engaging the drive pedal.

Drive Wheel Direction



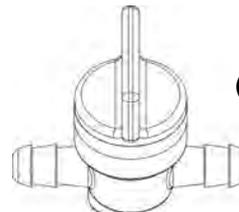
Fuel Shut-Off Valves

- The Swisher Three Wheel Rider is equipped with a fuel shut-off valve. It is located near the front right corner of the engine.
- It is good practice to turn the valve to the “OFF” position during transport or storage. This can help prevent from engine flooding and also help extend the life of engine components.

“ON” Position
(Parallel with fuel line)



“OFF” Position
(Perpendicular with fuel line)



SERVICE & ADJUSTMENTS

Jackshaft Belt Routing & Replacement

For replacement belt part number refer to Replacement Parts Quick Reference Chart in this manual.

Removal

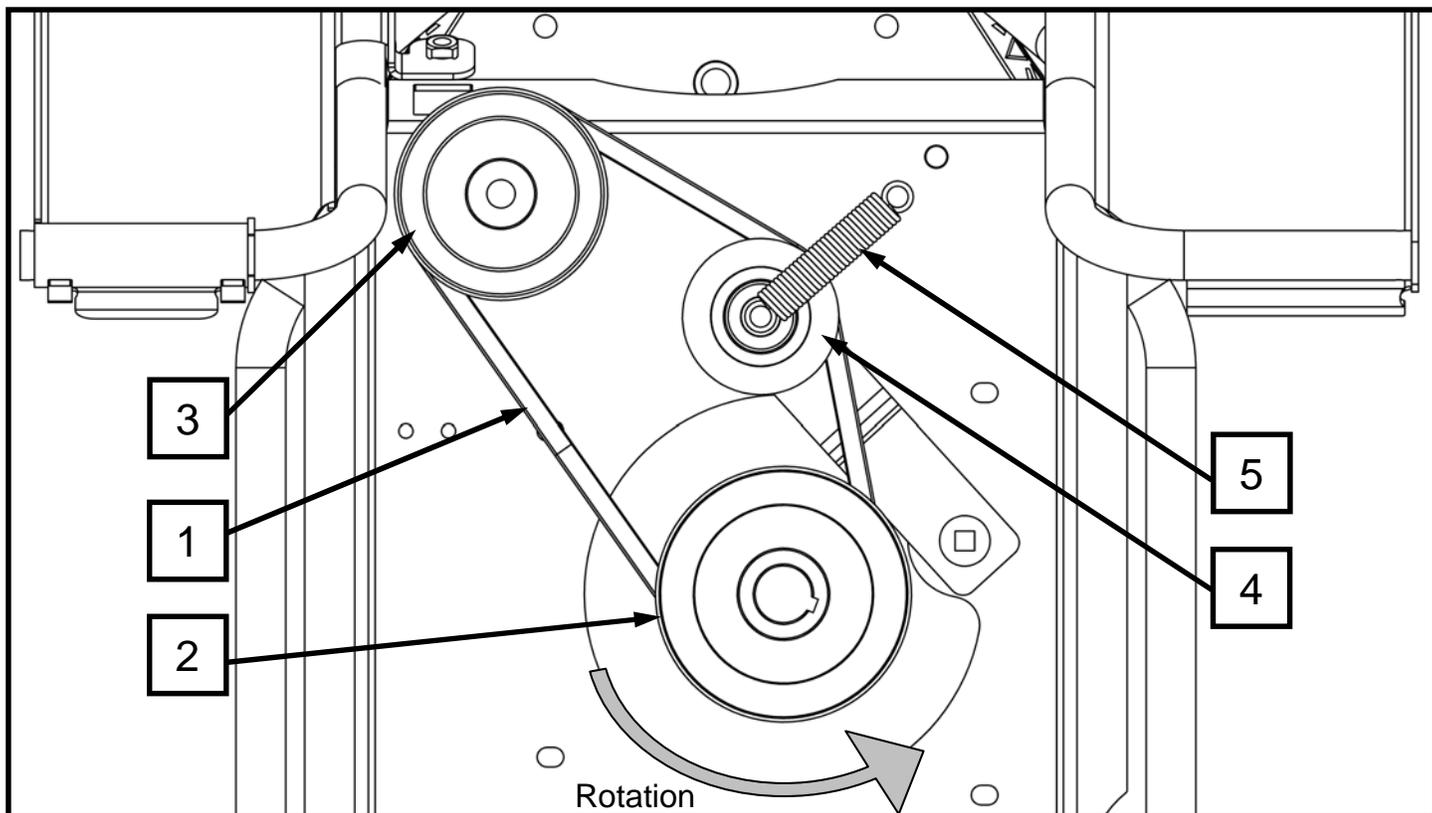
- Disconnect spark plug wire.
- Make sure machine is on level ground.
- Jack up the front of the machine to gain access to the belt.
- Release the tension from the idler.
- Roll the belt over the top of the jackshaft pulley.

1. Engine-to-Jackshaft belt
2. Engine pulley
3. Jackshaft pulley
4. Inside idler pulley
5. Tensioning spring

Replacement

- Install new belt by placing it around the engine and jackshaft pulley. Refer to routing diagram below.
- The belt will be loose at this time.
- Tightly secure the belt tension back to its original position.
- Check for sufficient tension on all belts.
- Reconnect the spark plug.

Front of machine (bottom view)



WARNING

When it is necessary to raise the mower for any repair or service, use jack stands to provide adequate support. DO NOT rely on hydraulic or mechanical jacks.

SERVICE & ADJUSTMENTS

Deck Belt Routing & Replacement

For replacement belt part number refer to Replacement Parts Quick Reference Chart in this manual.

Removal

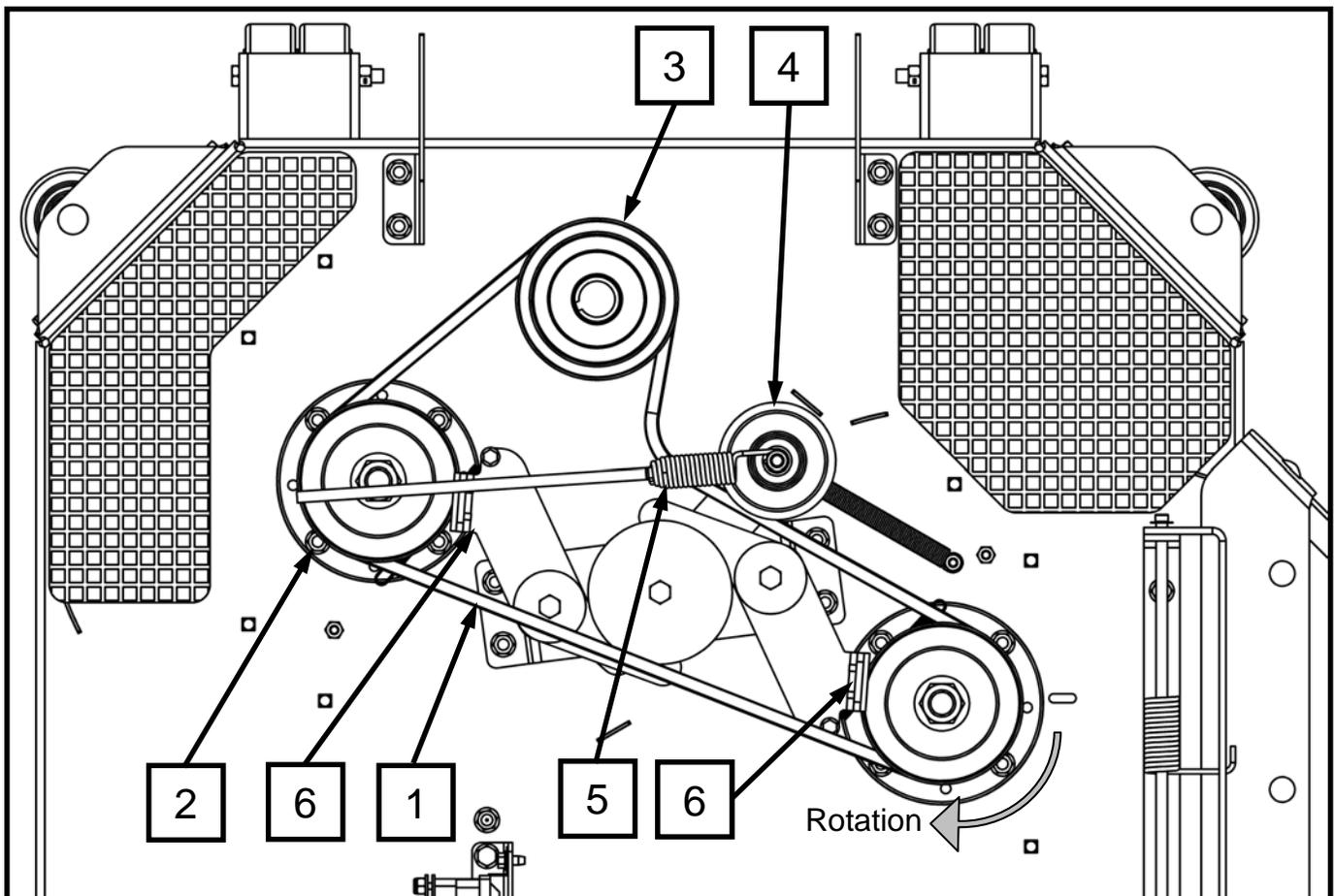
- Disconnect spark plug wire.
- Make sure machine is on level ground
- Disengage the deck engagement lever.
- Remove the belt covers.
- Roll the belt over the top of the deck pulleys then the engine pulley.

1. Engine-to-Deck belt
2. Deck pulleys
3. Engine pulley
4. Backside deck idler
5. Idler tension spring
6. Brake pads

Replacement

- Install new belt by placing it around the engine and deck pulleys. Refer to routing diagram below.
- The belt will be loose at this time.
- Manually engage the deck engagement lever to make sure there is adequate belt tension.
 - The belt tension may need to be tightened or loosened using the linkage rod.
 - **Important:** When the lever is completely disengaged the brake pads should be fully engaging the deck pulleys.
- Reinstall the belt covers.
- Reconnect the spark plug.

Front of Unit (Top View)



SERVICE & ADJUSTMENTS

Drive Belt Routing & Replacement

For replacement belt part number refer to Replacement Parts Quick Reference Chart in this manual.

Removal

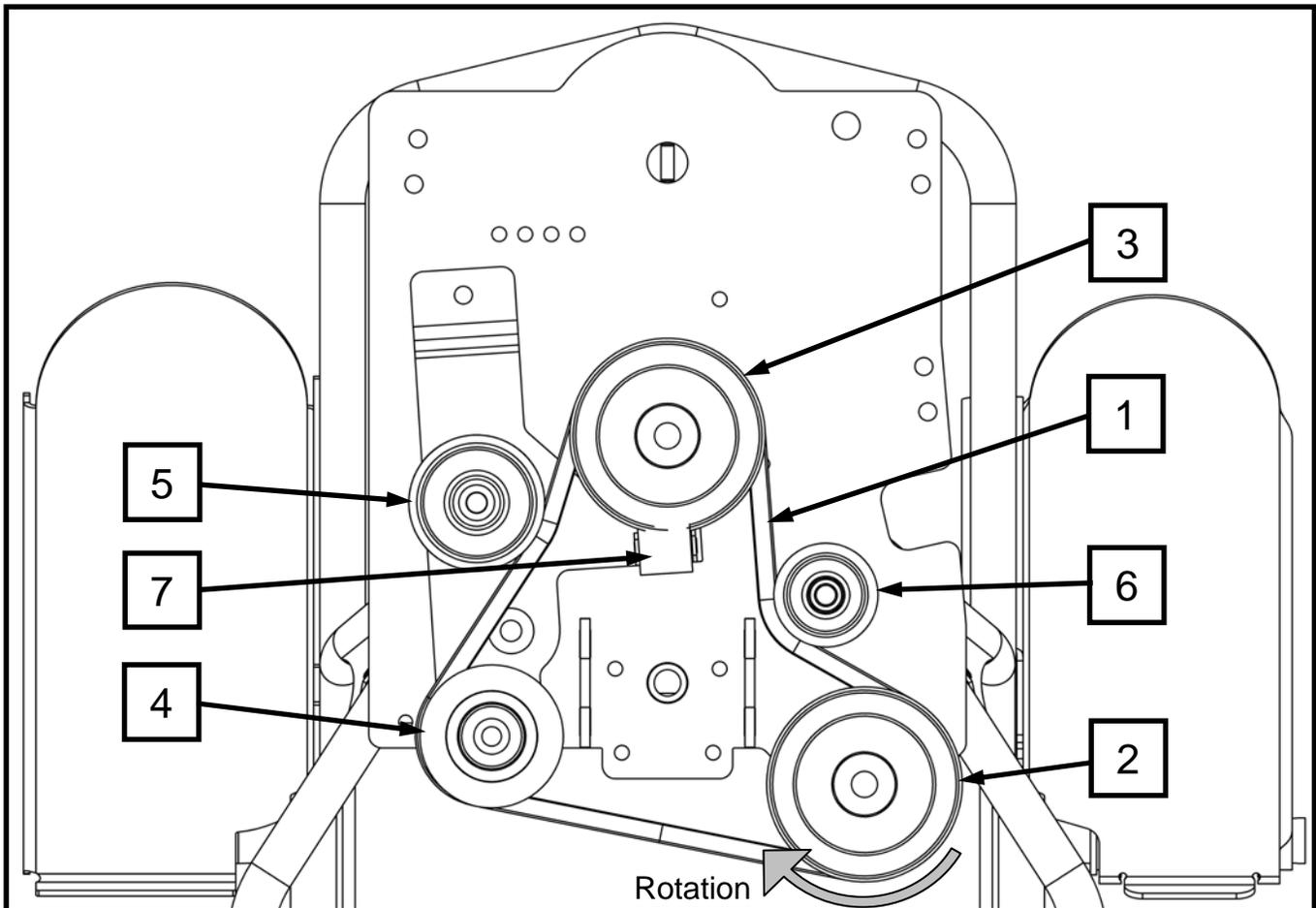
- Disconnect spark plug wire.
- Make sure machine is on level ground.
- Remove hood.
- Make sure the drive pedal is disengaged.
- Remove belt from the drive and jackshaft pulleys.
 - If the belt tension is too tight to remove, one of the pulleys may need to be removed as well.

- | | |
|----|---------------------|
| 1. | Drive belt |
| 2. | Jackshaft pulley |
| 3. | Drive pulley |
| 4. | Inside idler pulley |
| 5. | Backside idler #1 |
| 6. | Backside Idler #2 |
| 7. | Brake Pad |

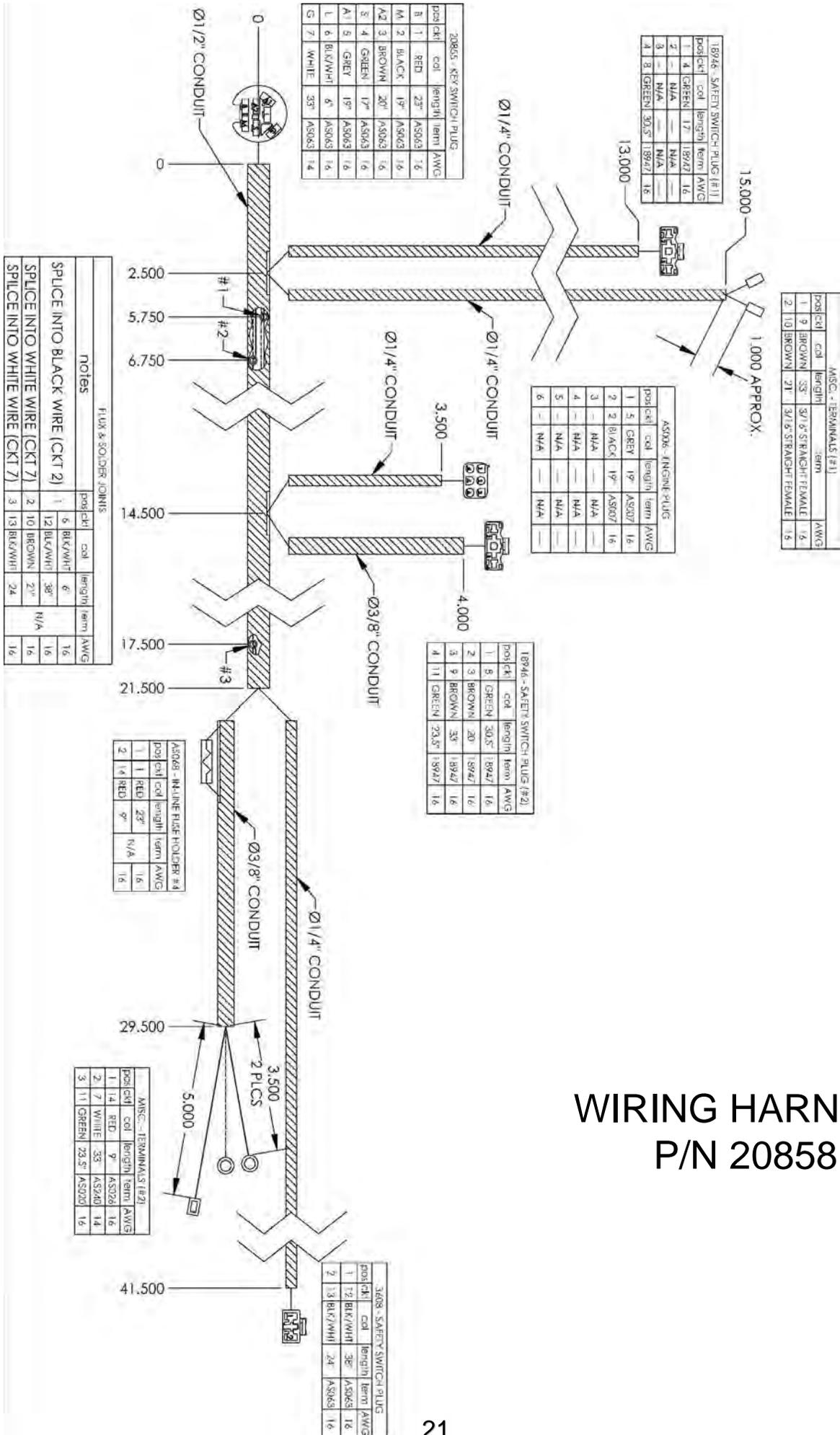
Replacement

- Install new belt by placing it around the jackshaft pulley first, then around the idler pulleys and drive pulley. Refer to routing diagram below.
- The belt will be loose once installed. This is by design.
- Manually engage the drive pedal to make sure there is adequate belt tension.
 - The belt tension may need to be tightened or loosened using the pedal linkage rods.
 - **Important:** When the pedal is completely disengaged the brake pad should be fully engaging the drive pulley.
- Reinstall the hood.
- Reconnect spark plug wire.

Front of Unit (Top View)

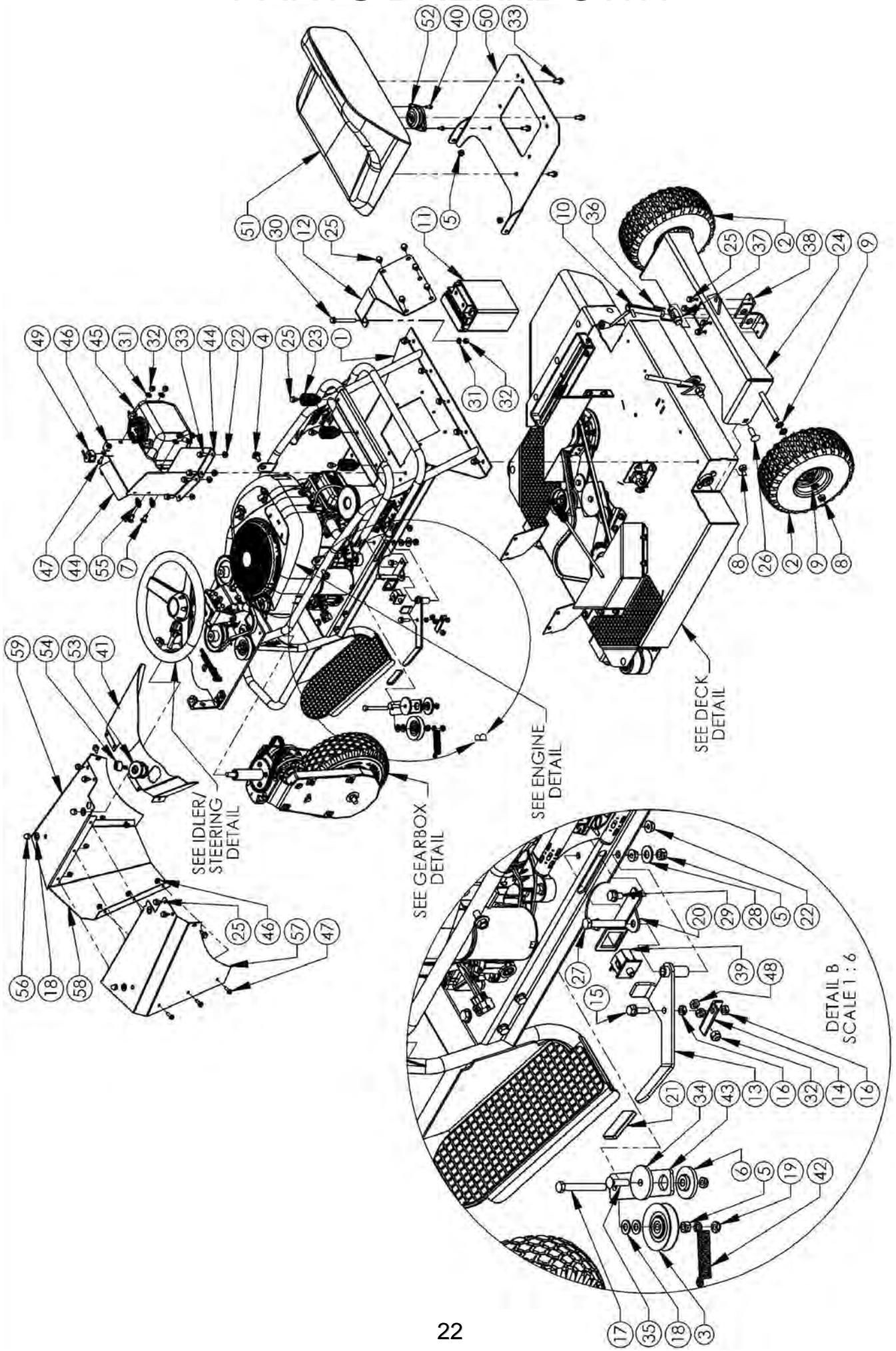


WIRING HARNESS



WIRING HARNESS P/N 20858

PARTS BREAKDOWN



PARTS BREAKDOWN

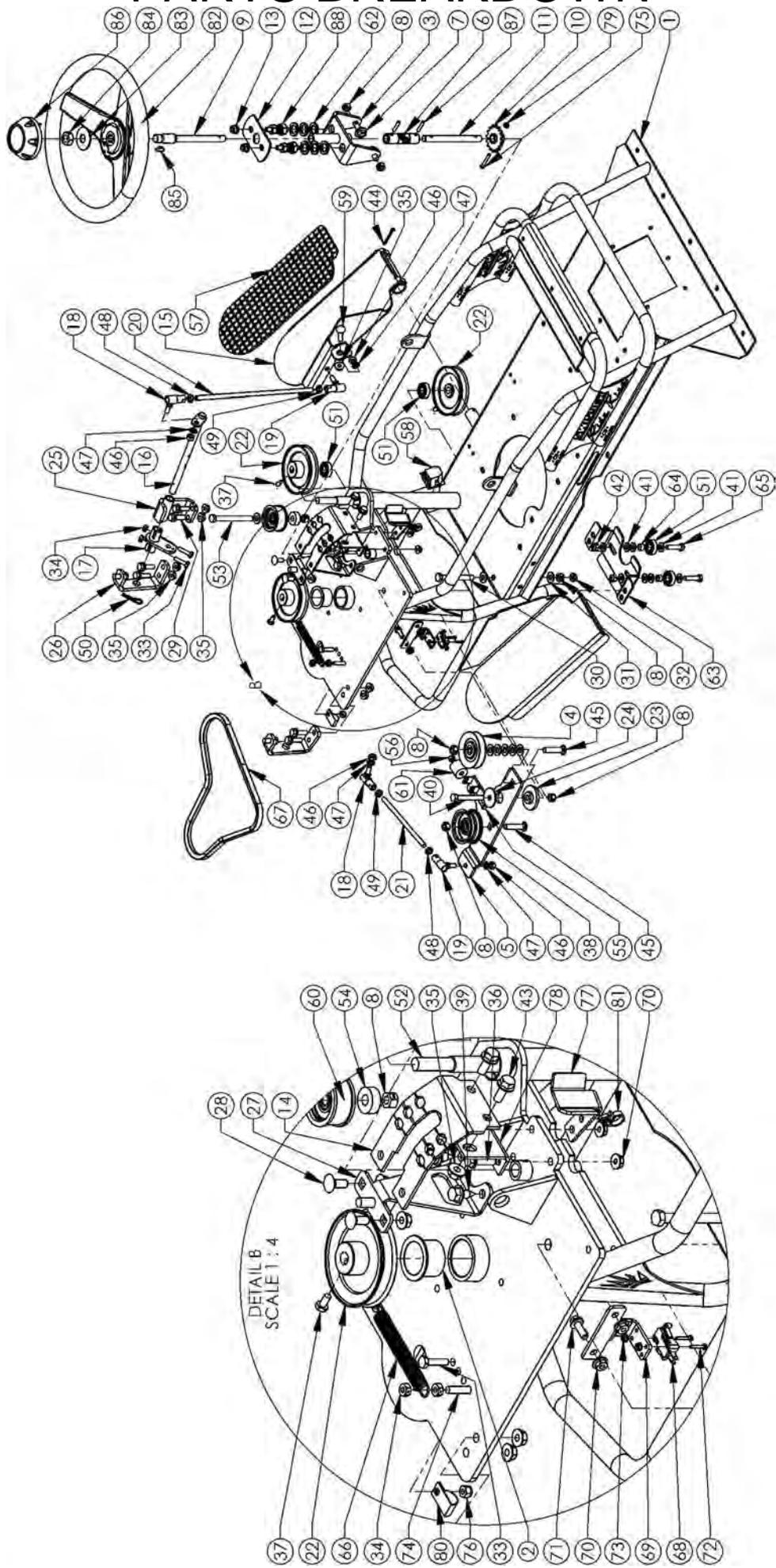
ITEM #	PART #	DESCRIPTION
1	20709*	Weldment - Main Frame Ride King
2	20717	Tire/Wheel - 11 x 4.00 - 4, Turf Tread
3	T30V	Pulley - Idler Clutch, 2 3/4 OD
4	009X42	Bolt - Shd. 38-16X.600D
5	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
6	6037	Bushing - Idler
7	10216	Bolt - Carriage 5/16-18X3/4 GR5 ZY
8	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
9	NB177	Washer - Mach 1/2 NR 14 GA
10	H7N	Assembly - Height Adjustment
11	N/A	Battery
12	20766*	Bracket - Battery Hold Down
13	20794*	Weldment - Deck Idler Handle
14	4578*	Pivot - Engage
15	10548	Bolt - Serr Flange, 5/16-18 X 1 GR5 ZY
16	11158	Nut - Jam, Two-Way Lock, 5/16-18
17	NB164	Bolt - HTC 3/8-16 X 3 GR5 ZY (Flt Thrd)
18	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
19	NB207	Nut - Jam, Nyloc 3/8-16 ZY
20	20783*	Bracket - Deck Idler Mount
21	2077	Pivot - Handle Grip, Yellow
22	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
23	3609	Spring - Tapered
24	20808*	Weldment - Rear Axle
25	26X249	Screw - .312-18 X .75 Black Zinc
26	20057	Bolt - Carriage, 1/2-13 X 1 1/2 GR5 ZY
27	NB221	Bolt - 3/8-16 X 2 1/2 HCC GR5 ZY
28	NB271	Washer - USS Flat 3/8, ZY Carbn Stl
29	NB252	Bolt - Serr Flange, 5/16-18 X 1/2 ZY Gr5
30	18580	Bolt - Serr Flange, 5/16-18 x 3; GR5 ZP

ITEM #	PART #	DESCRIPTION
31	NB275	Washer - SAE Flat 5/16 ZY
32	NB181	Nut - Nyloc 5/16-18 ZY
33	NB596	Bolt - Serr Flange, 5/16-18 X 3/4 Gr 5
34	6040Z	Washer - Idler, ZP
35	10501	Bolt - Carriage 3/8-16 X 1 1/4 GR5 ZY
36	19035	Pin - Cotter, 1/8 X 1-1/4; ZP
37	20806Z	Swivel - Rear Axle, Height Adjust ZP
38	20810*	Bracket - Rear Axle Adjust Pivot
39	18945	Switch - 2 Pole, NC/NO
40	0025X3	Screw - 1/4-20 x 1/2, Thread Form Hex
41	20820*	Cover - Jackshaft Pulley
42	18728	Spring - Deck Idler, Short
43	20818*	Idler - Engine to Jackshaft
44	20821*	Deflector - Heat Shield
45	20856	Tank - Plastic, 2 Qt.
46	NB524	Nut - Serr Flange, 1/4-20 Grade 5 ZY
47	NB690	Bolt - Serr Flange, 1/4-20 X 3/4 GR5 ZY
48	NB173	Nut - Jam 5/16-18 ZY
49	20857	Valve - Remote, Roll-Over
50	20805*	Bracket - Seat Pan, Rider
51	20761	Seat - Low Back, Black
52	20859	Switch - Assembly, Seat; NC
53	20853	Switch - Key, 4 Position
54	20854	Key - For 20853 Switch
55	NB683	Clip - Nylon 1/2"
56	20997	Nut - 3/8-16, Acorn Two-Way; ZP
57	20727*	Cover - Front Hood, Left
58	20729*	Cover - Front Grill
59	20726*	Cover - Front Hood, Right

When ordering replacement parts

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PARTS BREAKDOWN



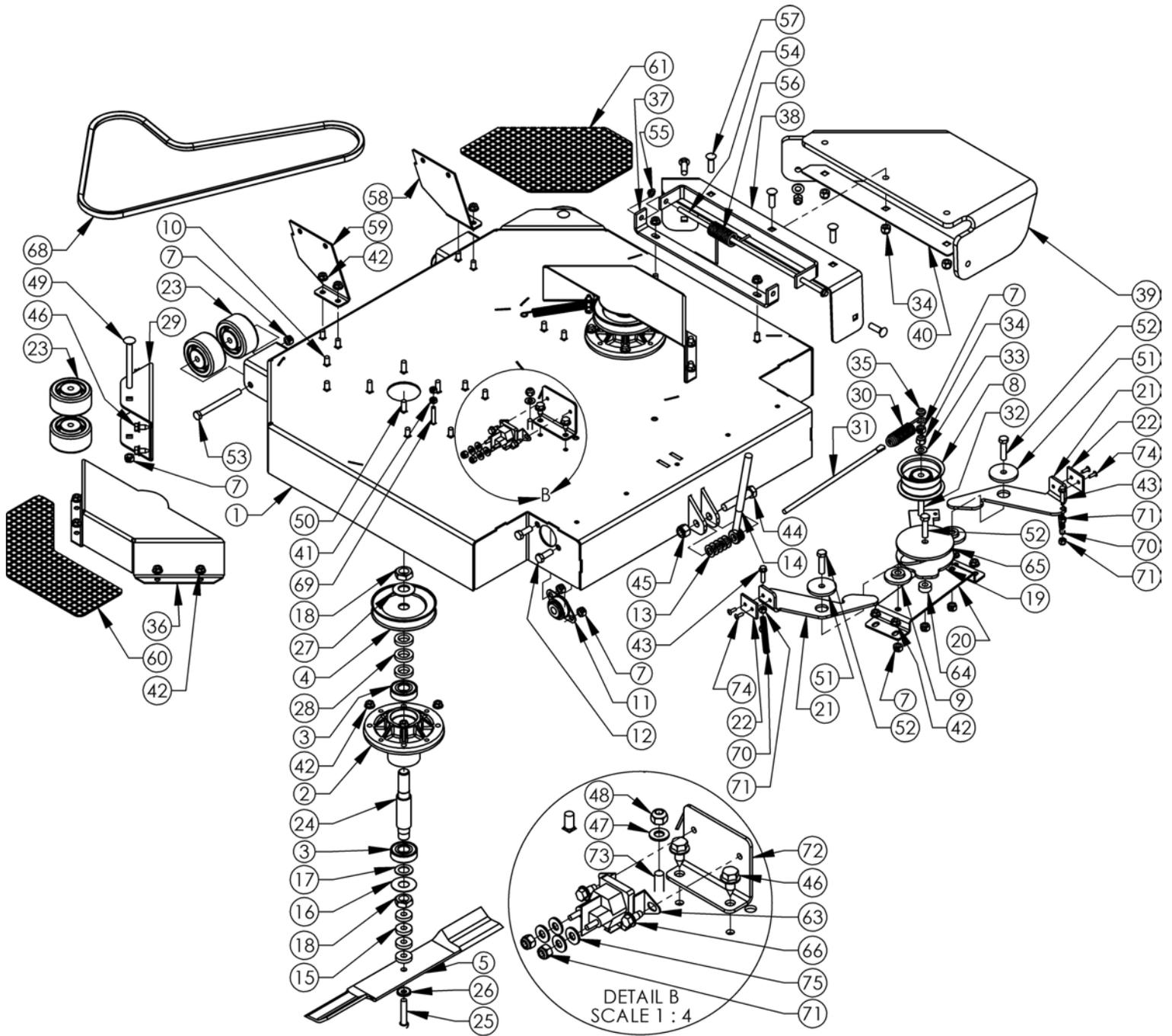
PARTS BREAKDOWN

ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	20709*	Weldment - Main Frame Ride King	45	10502	Bolt - Carriage 3/8- 16 X 13/4 GR5 ZY
2	A124B	Bushing - Flanged (Up/Low) Ea.	46	NB215	Nut - Hex 5/16-24 ZY Grade 2
3	20716*	Weldment - Steering Wheel Tilt	47	NB159	Washer - Split Lock 5/16 ZY Medium Duty
4	T30V	Pulley - Idler Clutch, 2 3/4 OD	48	NB265	Nut - Jam 5/16-24 Lft-Hand Thrd ZY Gr2
5	20843*	Weldment - Speed Tension Idler	49	NB190	Nut - Jam 5/16-24 ZY Grade 2
6	20860	U-Joint - Ø1/2" x 2 7/8", Drilled	50	NB127	Pin - Hair, #39 (A155H) ZY Std
7	009X42	Bolt - Shd. 38- 16X.600D	51	AS010	Bearing - (1) 1616ZZ (TR150, T137)
8	NB280	Nut - 2 Way Lock 3/8- 16 ZY & Wax Gr A	52	20812Z	Shaft - Jackshaft, Input ZP
9	20861Z	Shaft - Steering Control, Top; ZP	53	NB649	Bolt - 3/8- 16 X 3 1/2 GR5 ZY
10	20802Z	Weldment - Steering Gear, Small ZP	54	20825Z	Spacer - Ø3/8 X Ø1X .375 ZP
11	20862	Shaft - Steering Control, Bottom	55	NB710	Screw - 10-24 X 1 1/2 MSC Unslot Hex ZY
12	20735*	Plate - Pin, Steering Wheel Tilt	56	NB172	Nut - Kep 10-24 ZY
13	12394	Nut - Flanged, M8 X Nyloc Gr 10.9	57	20829	Mat - Foot Rest, Right
14	20732*	Bracket - Steering Adjust, Top	58	18945	Switch - 2 Pole, NC/NO
15	20745*	Weldment - Throttle Pedal	59	10217	Bolt - Carriage 5/16- 18 X 1.25 GR5 ZY
16	20751Z	Weldment - Throttle Linkage Rod ZP	60	19107	Pulley - Backside Idler, 1.87"OD .375"ID
17	20750Z	Weldment - Throttle Linkage Mount ZP	61	9114	Pad - Brake, Cylindrical
18	NB263	Linkage - Ball, Right; Moridge# 265615	62	NB178	Washer - 5/8 ID X 1OD 10 GA ZY
19	NB264	Linkage - Ball, Left; Moridge # 265616	63	20845*	Bracket - Steering Chain Tension
20	20752	Linkage - 5/16-24 LHT & RHT x 10.75"	64	AS165	Bushing - (F/Security p) T230
21	20753	Linkage - 5- 16-24 LHT & RHT X 6.5"	65	NB504	Bolt - 5/16- 18 X 1 1/4 HCC GR5 ZY
22	20746	Pulley - Main Drive, Gearbox	66	BRS6	Spring - Idler Arm
23	6037	Bushing - Idler	67	20846	Belt - Wrapped, 34.5"
24	10177	Washer - Fender 3/8 X 1.5, Crbn Stl GR 2	68	19451	Switch - Micro Lever, NC/NO
25	20757*	Weldment - Throttle Pivot	69	20849*	Bracket - Reverse Switch Mount
26	20759*	Weldment - Front Hood Mount	70	NB524	Nut - Serr Flange, 1/4-20 Grade 5 ZY
27	20760*	Weldment - Steering & Hood Mount	71	NB690	Bolt - Serr Flange, 1/4-20 X 3/4 GR5 ZY
28	10216	Bolt - Carriage 5/16- 18X3/4 GR5 ZY	72	19601	Screw - 4- 40 X 5/8, Pan Head
29	10548	Bolt - Serr Flange, 5/16- 18 X 1GR5 ZY	73	19602	Nut - Kep, 4-40
30	NB164	Bolt - HTC 3/8- 16 X 3 GR5 ZY (Flt Thrd)	74	NB560	Bolt - 1/4-20 X 1 1/4 HCC GR5 ZY
31	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel	75	NB703	Screw - MSC, 10-24 X 1 1/4 ZP
32	NB207	Nut - Jam, Nyloc 3/8-16 ZY	76	NB180	Nut - Nyloc 1/4-20
33	NB102	Bolt - 1/4-20 X 1HCC GR5 ZY	77	20851*	Snubber - Belt Finger, 2X2
34	20294	Nut - 1/4-20 2-Way Lock ZClear	78	20733*	Bracket - Steering Adjust Bottom
35	NB170	Nut - Serr Flange 5/16- 18 ZY Case Hrd	79	024900	Nut - 10-24 Nylon Lock ZClear
36	13182	Bolt - Serr Flange, 1/4-20 X 1GR5 ZY	80	14316	Clamp - Conduit, 3/8" x 1/4" Hole
37	NB134	Bolt - 1/4-20 X 1/2 HCC GR5 ZY	81	NB683	Clip - Nylon 1/2"
38	B27	Pulley - Idler, OD-2.16", ID-3/8"	82	20772	Steering Wheel - Ø13" (Daytona)
39	26X249	Screw - .312- 18 X .75 Black Zinc	83	19814	Washer - Belleville 5/8 X 13/4 X .098 ZP
40	NB221	Bolt - 3/8- 16 X 2 1/2 HCC GR5 ZY	84	19370	Nut - Hex Jam, 5/8- 18 ZY
41	NB275	Washer - SAE Flat 5/16 ZY	85	NB638	Key - Woodruff, 3/16 X 3/4 #9
42	NB181	Nut - Nyloc 5/16- 18 ZY	86	20990	Cap - Steering Wheel, 20772
43	NB596	Bolt - Serr Flange, 5/16- 18 X 3/4 Gr 5	87	NB123	Pin - Roll, 3/16 X 1
44	19035	Pin - Cotter, 1/8 X 1- 1/4; ZP	88	20734	Pin - Retractable Spring Plunger

When ordering replacement parts

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PARTS BREAKDOWN



PARTS BREAKDOWN

ITEM #	PART #	DESCRIPTION
1	20739*	Weldment - 32" Deck
2	19924*	Housing - Cast Iron Blade Driver
3	B98	Bearing
4	B4104*	Pulley - Blade 4 1/2"
5	20740	Blade - 17.5" Flat, High Lift
6	20741	Blade - 15.5" Flat, High Lift
7	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
8	7509	Pulley - Idler OD-2.75", ID-3/8"
9	6037	Bushing - Idler
10	10216	Bolt - Carriage 5/16-18X3/4 GR5 ZY
11	4005	Bearing - Side Flange
12	NB604	Bolt - 3/8-16 X 1 GR5 ZY
13	NB177	Washer - Mach 1/2 NR 14 GA
14	10038	Eyebolt - 1/2-13X7 3/4,5-1/8 Thrd Lngth
15	20776Z	Spacer - Blade, Ø1/4" ZP
16	B98W	Washer - Flat 3/4 ID X 1 3/4 OD, ZY
17	NB179	Washer - 3/4 ID X 1 1/4 OD 18 GA ZY
18	NB175	Nut - Jam 3/4-16 Gr 2
19	20771Z	Weldment - Idler/Brake Cam ZP
20	20768*	Bracket - Brake Idler
21	20767Z	Bracket - Brake Pad Mount ZP
22	056054	Pad - Brake 1.25X1.62
23	AS001	Roller - Anti-Scalp 3/8 ID
24	20774	Shaft - Blade Driver, 5.635
25	20777	Bolt - Hex 3/8-24 X 2 GR8; Full Thread
26	NB607	Washer - SP Bellvl. PLN .413 X.945 X.118
27	AS155	Washer - Belleville .760 X 1.5 X .098
28	20778Z	Washer - 1.25 X .75 X .25 ZP
29	20779*	Bracket - Vert Anti-Scalp Roller
30	4422	Spring - Idler Tension, Bent Leg
31	NB260	Bolt - Spade, 5/16-18 X 10.5 ZY
32	NB164	Bolt - HTC 3/8-16 X 3 GR5 ZY (Flt Thrd)
33	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
34	NB182	Nut - Nyloc 3/8-16 ZY
35	NB207	Nut - Jam, Nyloc 3/8-16 ZY
36	20784*	Cover - Deck Pulley; Txt Red
37	19297*	Bracket - Grass Chute Mount
38	20787*	Weldment - Grass Chute, Top

ITEM #	PART #	DESCRIPTION
39	20788	Rubber - Grass Chute, 3/8"
40	20789*	Plate - Grass Chute Support
41	20294	Nut - 1/4-20 2-Way Lock ZClear
42	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
43	13182	Bolt - Serr Flange, 1/4-20 X 1 GR5 ZY
44	NB510	Bolt - 1/2-13 X 2 1/2 HCC GR5 ZY
45	NB281	Nut - Nyloc 1/2-13 ZY
46	26X249	Screw - .312-18 X .75 Black Zinc
47	NB275	Washer - SAE Flat 5/16 ZY
48	NB181	Nut - Nyloc 5/16-18 ZY
49	NB707	Bolt - Carriage,3/8-16X4 Full Thread Gr2
50	10197	Bolt - Carriage 5/16-18 X 1 GR5
51	6040Z	Washer - Idler, ZP
52	NB107	Bolt - 3/8-16 X 1 1/2 HCC GR5 ZY
53	NB316	Bolt - 3/8-16 X 4 HCC GR2
54	18595	Rod - Deck, Grass Chute; ZP
55	NB117	Nut - Push, 5/16; ZP
56	166x34	Spring - Torsion
57	10501	Bolt - Carriage 3/8-16 X 1 1/4 GR5 ZY
58	20822*	Bracket - Deck Hanger, Right
59	20824*	Bracket - Deck Hanger, Left
60	20826	Mat - Floor, Left
61	20827	Mat - Floor, Right
62	NB199	Bolt - 3/8-16 X 5 HCC GR5 ZP
63	1002004	Solenoid - 3 Pole
64	20837Z	Spacer - .870 OD X .390 ID X .375 ZP
65	20838Z	Washer - 3/8 ID X 4 OD X 3/16 ZP
66	NB114	Bolt - TCS 1/4-20 X 1/2 Unslot ZY Gr2
67	BRS6	Spring - Idler Arm
68	18638	Belt - Deck Idler; 1/2 X 54
69	NB583	Bolt - Carriage 1/4-20 X 1 1/2 GR2 ZY
70	T2SM	Spring - (2 speed)
71	NB180	Nut - Nyloc 1/4-20
72	20864	Bracket - Solenoid Mount
73	10543	Screw - Rolok 5/16-18 X 1 ZY STD
74	NB219	Rivet - Pop, AD66ABS
75	NB274	Washer - SAE Flat 1/4 ZY

When ordering replacement parts

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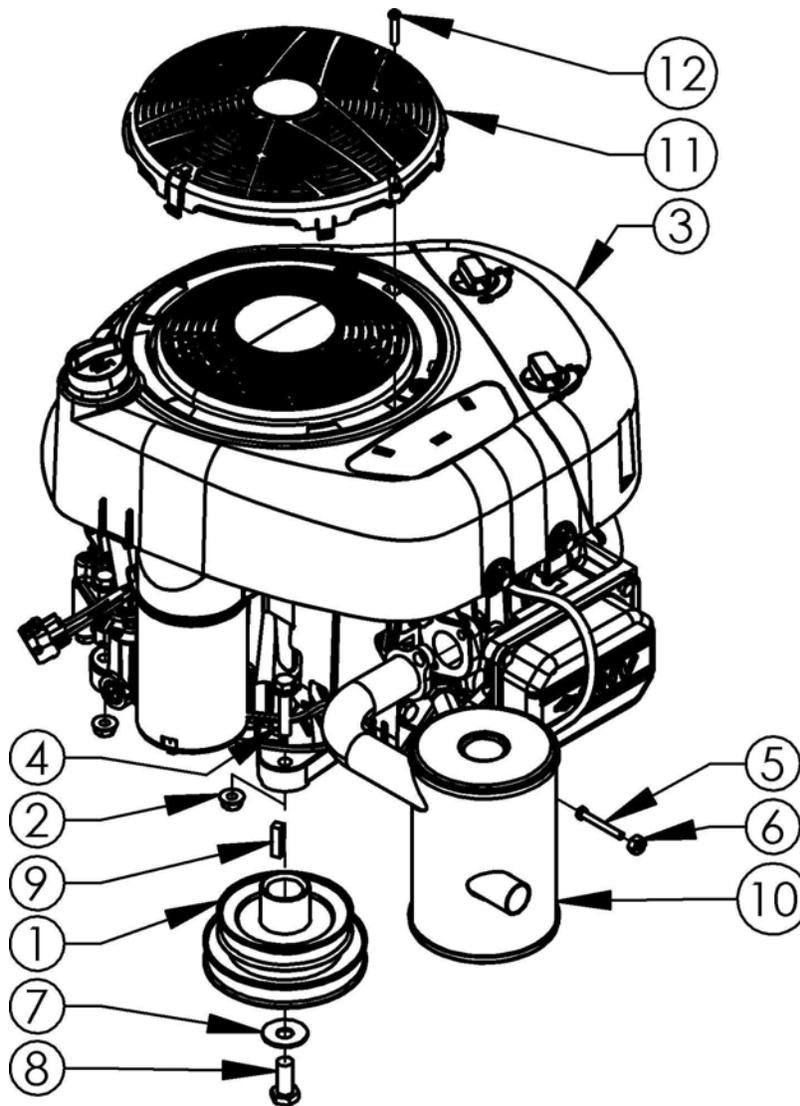
PARTS BREAKDOWN

ITEM #	PART #	DESCRIPTION
1	20797Z	Weldment - Drive Sprocket/Hub ZP
2	AS010	Bearing - (1) 1616ZZ (TR150, T137)
3	TR150W	Washer - .531IDX1 1/2ODX.062(Ht Trtd)ZY
4	NB156	Bolt - 1/2-13 X 7-1/2 HCC GR5 ZP
5	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
6	NB275	Washer - SAE Flat 5/16 ZY
7	NB503	Bolt - 5/16-18 X 1 3/4 HCC GR5 ZP
8	NB181	Nut - Nyloc 5/16-18 ZY
9	NB177	Washer - Mach 1/2 NR 14 GA
10	20799*	Guard - Chain, Front Wheel
11	NB524	Nut - Serr Flange, 1/4-20 Grade 5 ZY
12	10547	Bolt - Carriage 1/4-20X3/4 GR5ZYFullThrd
13	AS165	Bushing - (F/Security p) T230
14	NB641	Washer - 5/16 ID X 1 3/4 OD X 14 GA
15	20848	Chain - Roller, 77 Link Loop
16	20866*	Guard - Rear Chain, Front Wheel
17	20713*	Bracket - Front Wheel Mount Right
18	20712*	Bracket - Front Wheel Mount Left
19	NB280	Nut - 2 Way Lock 3/8-16 ZY & Wax Gr A
20	NB130	Bolt - 3/8-16 X 1 FL SKT HD Leg, Gearbox
21	20832	Gearbox - 90°, 10:1 Ratio
22	20819Z	Weldment - Gearbox Pivot ZP
23	20816Z	Sprocket - Steering Drive ZP
24	20817Z	Spacer - Sprocket Plate ZP
25	20798Z	Shaft - Gearbox, Input ZP
26	12473	Key Stock - Sq 3/16 X 3/16 X 1/2"
27	20835	Screw - Flange; M6X1 X 30MM, Medium
28	20836Z	Sprocket - Wheel Drive ZP
29	NB620	Bolt - 1/4-28 X 3/4 GR5 ZY
30	14399	Washer - Belleville 1/4"
31	20840Z	Washer - 1/4 ID X 3/4 OD X 14 GA ZP
32	20710	Tire & Wheel - 4.10/3.50-5 w/ Pin Drive
33	TR148PW	Pin - Lock
34	TR148S	Spring - For Lock Pin
35	20839Z	Lever - Wheel Pin Lock ZP
36	NB126	Pin - Cotter, 1/8 X 1, Crbn Stl Ext Prng

When ordering replacement parts

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PARTS BREAKDOWN



ITEM #	PART #	DESCRIPTION
1	20718	Pulley - Stacked, Engine to Deck
2	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
3	N/A	Engine - B&S 10.5 HP
4	NB254	Nut - Serr Flange, 1/4-20 Grade 5 ZY
5	NB710	Screw - 10-24 X 1 1/2 MSC Unslot Hex ZY
6	NB172	Nut - Kep 10-24 ZY
7	699	Washer - Belleville 7/16 X 1 1/4
8	NB452N	Bolt - 7/16-20 X 1 HCF GR5 ZP Nyloc
9	9031	Key Stock - 1/4 X 1 Undr Sz Plain Fin
10	20831	Muffler - Briggs, 10.5 HP
11	20871	Guard - B&S Static Engine Cover
12	20872	Hardware - Static Guard 20871

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
<p>Engine Will Not Start</p>	<ol style="list-style-type: none"> 1. Out of fuel. 2. Engine flooded. 3. Bad spark plug. 4. Dirty air filter. 5. Dirty fuel filter. 6. Water in fuel. 7. Loose or damaged wiring. 8. Carburetor out of adjustment. 9. Engine valves out of adjustment. 10. Extreme cold conditions. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. Wait several minutes before attempting to restart. 3. Replace spark plug. 4. Clean or replace air filter. 5. Replace fuel filter. 6. Drain fuel tank & carburetor, refill tank with fresh gas and replace fuel filter. 7. Check all wiring. 8. See Engine Manual. 9. Contact an authorized service center. 10. See Engine Manual.
<p>Engine Hard To Start</p>	<ol style="list-style-type: none"> 1. Bad spark plug. 2. Dirty air filter. 3. Dirty fuel filter. 4. Weak or dead battery. 5. Carburetor out of adjustment. 6. Engine valves out of adjustment. 7. Loose or damaged wiring. 8. Stale or dirty fuel. 	<ol style="list-style-type: none"> 1. Replace spark plug. 2. Clean or replace air filter. 3. Replace fuel filter. 4. Recharge or replace battery. 5. See Engine Manual. 6. Contact an authorized service center. 7. Check all wiring. 8. Drain fuel tank & refill with fresh gasoline.
<p>Engine Will Not Turn Over</p>	<ol style="list-style-type: none"> 1. Weak or dead battery. 2. Blown fuse. 3. Corroded battery terminals. 4. Loose or damaged wiring. 5. Faulty ignition switch. 6. Faulty solenoid. 7. Faulty operator presence switch/switches. 	<ol style="list-style-type: none"> 1. Recharge or replace battery. 2. Replace fuse. 3. Clean battery terminals – See Battery section of this manual. 4. Check all wiring. 5. Check/replace ignition switch. 6. Check/replace solenoid. 7. Contact an authorized service center.
<p>Engine Clicks but Will Not Start</p>	<ol style="list-style-type: none"> 1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid. 	<ol style="list-style-type: none"> 1. Recharge or replace battery. 2. Clean battery terminals – See Battery section of this manual. 3. Check all wiring. 4. Check/replace solenoid.
<p>Excessive Vibration</p>	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Bent blade driver. 3. Loose/damaged part or parts. 4. Faulty blade driver assembly. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Replace blade driver. 3. Tighten loose part or parts. Replace damaged parts. 4. Replace blade driver assembly.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
<p>Loss of Power</p>	<ol style="list-style-type: none"> 1. Cutting too much grass / too fast. 2. Buildup of grass, leaves and trash under deck. 3. Dirty air filter. 4. Low oil level/dirty oil. 5. Faulty spark plug. 6. Dirty fuel filter. 7. Stale or dirty fuel. 8. Water in fuel. 9. Spark plug wire loose. 10. Dirty engine air screen/fins. 11. Dirty/clogged muffler. 12. Loose or damaged wiring. 13. Carburetor out of adjustment. 14. Engine valves out of adjustment. 15. Loose drive belt. 	<ol style="list-style-type: none"> 1. Raise deck height / reduce speed. 2. Clean underside of mower deck. 3. Clean or replace air filter. 4. Check oil level/change oil. 5. Clean and re-gap or change plug. 6. Replace fuel filter. 7. Drain fuel tank & refill tank with fresh gas. 8. Drain fuel tank & carburetor, refill tank with fresh gas and replace fuel filter. 9. Connect and tighten spark plug wire. 10. Clean engine air screen/fins. 11. Clean/replace muffler. 12. Check all wiring. 13. See Engine Manual. 14. Contact an authorized service center. 15. Adjust idler/replace belt.
<p>Engine Backfires When Turning Engine OFF</p>	<ol style="list-style-type: none"> 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	<ol style="list-style-type: none"> 1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.
<p>Poor Cut - Uneven</p>	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Buildup of debris under deck. 3. Bent deck. 4. Faulty blade driver assembly. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Clean underside of mower deck. 3. Replace deck. 4. Replace blade driver assembly.
<p>Battery Will Not Charge</p>	<ol style="list-style-type: none"> 1. Bad battery. 2. Poor cable connections. 3. Faulty solenoid. 	<ol style="list-style-type: none"> 1. Replace battery. 2. Check/clean all connections. See section in this manual. 3. Replace solenoid.
<p>Loss of Drive</p>	<ol style="list-style-type: none"> 1. Damaged or broken drive belt. 2. Drive pedal loose or broken. 3. Wheel detent pin disengaged. 4. Damaged or broken chain. 	<ol style="list-style-type: none"> 1. Replace the drive belt. 2. Repair or replace components. 3. Re-engage detent pin. 4. Replace the drive chain.

MOWER IDENTIFICATION

Mower Identification

Each mower has its own model number. Each engine has its own model number. The model number for the mower will be found behind the seat. The model number for the engine will be found on the top of the blower fan housing.

All mower parts listed herein may be ordered directly from Swisher or your nearest Swisher dealer. All engine parts may be ordered from the nearest dealer of the engine supplied with your mower.

Unauthorized Replacement Parts

Use only Swisher replacement parts. The replacement of any part on this unit with anything other than Swisher authorized replacement part may adversely affect the performance, durability and safety of this unit and may void the warranty. Swisher disclaims liability for any claims or damages, whether warranty, property damage, personal injury or death arising out of the use of unauthorized replacement parts.

WHEN ORDERING PARTS, PLEASE HAVE THE FOLLOWING INFORMATION AVAILABLE:

- Date Purchased _____
- Purchased From _____
- PRODUCT - _____
- SERIAL NUMBER - _____
- ENGINE MODEL NUMBER - _____
- TYPE - _____
- PART NUMBER WITH PAINT CODE _____
- PART DESCRIPTION _____

SWISHER ACQUISITION INC.
1602 CORPORATE DRIVE
WARRENSBURG, MO 64093

www.swisherinc.com
TELEPHONE - 1-800-222-8183
FAX - 1-660-747-3160

cust.serv@swisherinc.com

REPLACEMENT PARTS

Quick Reference

Swisher Part #	Part Description
20846	Belt - Wrapped, 34.5"
37X129	Belt - 30" Drive
18638	Belt – Deck Idler, ½ x 54
20710	Tire & Wheel - 4.10/3.50-5 w/ Pin Drive
20717	Tire/Wheel - 11 x 4.00 - 4, Turf Tread
20848	Chain - Roller, 77 Link Loop
20740	Blade - 17.5" Flat, High Lift
20741	Blade - 15.5" Flat, High Lift
AS069	Fuse – 10 Amp
19924TK	Housing - Cast Iron Blade Driver; Txt Blk
20774	Shaft - Blade Driver, 5.635
B98	Bearing - Blade
056054	Pad - Brake 1.25 X 1.62
9114	Pad - Brake, Cylindrical



CAUTION

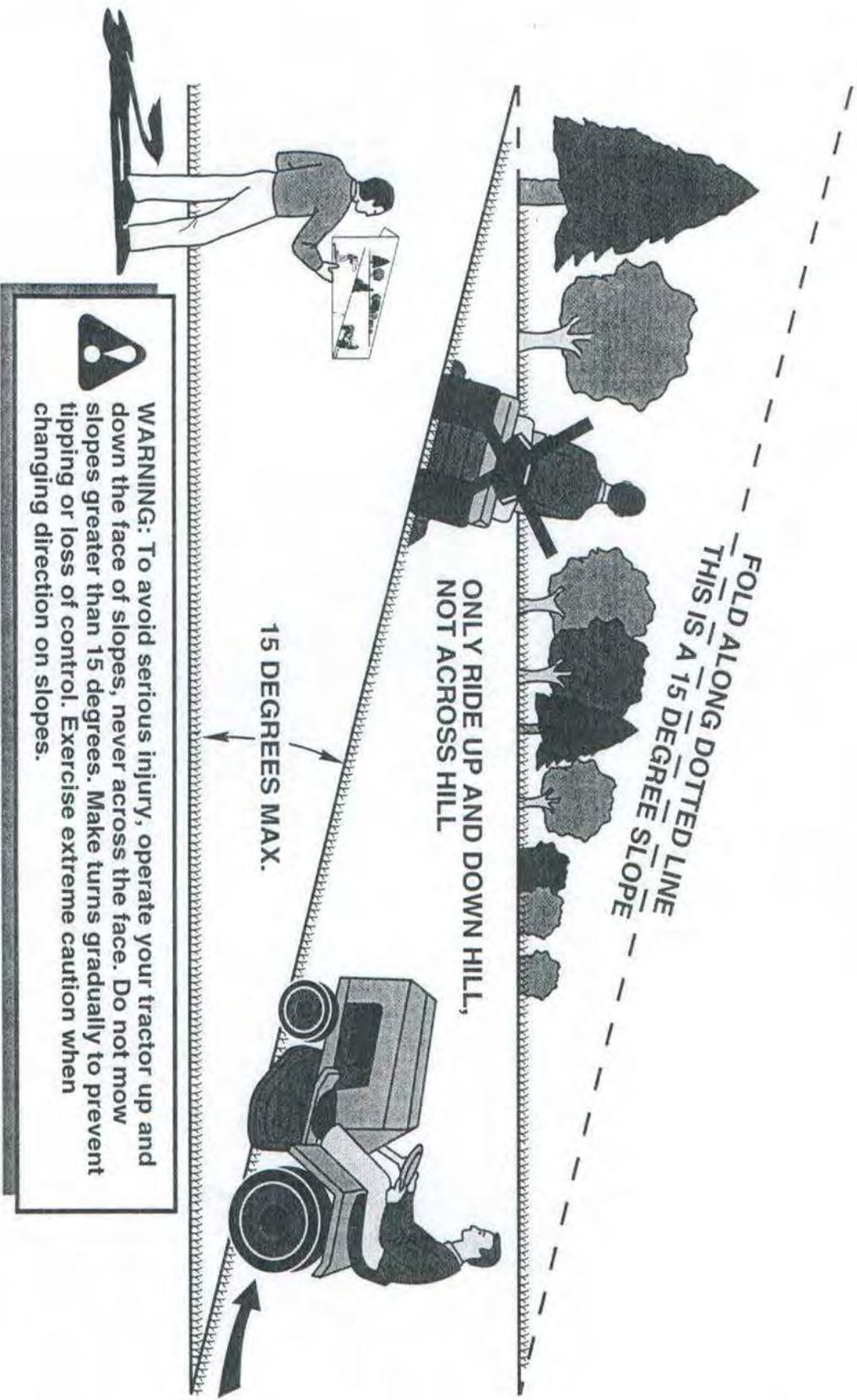
Use extreme care when working on machinery.

Before performing any maintenance, turn off engine, allow the unit to cool and remove the key. Disconnect spark plug wire.

Completely disengage the drive pedal and make sure the machine is on level ground.

Do not wear watch or jewelry. Do not wear loose fitting clothes. Observe all common safety practices with tools.

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



1. Fold this page along dotted line indicated above.
2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
3. Sight across the fold in the direction of hill slope you want to measure.
4. Compare the angle of the fold with the slope of the hill.

SWISHER HISTORY



Back before electricity came to rural Missouri Max Swisher was producing lawn mowers from his mother's chicken house. Max never liked to mow grass. He installed a gearbox on his family's lawn mower creating a self-propelled unit. By tying one end of a rope to the mower and the other end to a tree in the center of the yard the mower circled the tree, shortening the rope and guiding the mower in concentric circles. Max enjoyed relaxing under a shade tree while his invention did all the work.

Max had designed his first self-propelled rotary lawn mower to do his dirty work for him. Neighbors noticed his new invention and began asking him to make more. Today, over 65 years later, Swisher is still producing innovative lawn and garden and ATV/UTV equipment designed to give us all more "relaxing in the shade" time.

Swisher products have been featured nationally on television programs such as Regis and Kathie Lee and seen in publications like ATV Magazine, Country Journal, Popular Mechanics Magazine and others. In January 2000 Popular Mechanics Magazine named Max's zero turning radius riding mower one of the 20th century's top household inventions.

Swisher offers value and function in its products to meet your grounds maintenance needs.

**CELEBRATING OVER 70 YEARS OF INNOVATION
SINCE 1945**

