

# **OPERATOR'S MANUAL & PARTS LIST**



**RIDING MOWER MODELS**

**124V/48 - 124V/48R**

**126V/52 - 126V/52R**

**126V/61 - 126V/61R**

**THE GRASSHOPPER COMPANY**

Moundridge, Kansas 67107 U.S.A.

(620) 345-8621

GRASSHOPPERMOWER.COM

Price \$7.00

Form 172142-190618

Printed in U.S.A.

---

---

# INTRODUCTION

Congratulations on your selection of Grasshopper equipment. We believe you have exercised excellent judgment in the purchase of Grasshopper equipment. We are most appreciative of your patronage.

We recommend that you carefully read this entire manual before operating the unit. Time spent becoming fully acquainted with its performance features, adjustments and maintenance will add a longer and more satisfactory life to your Grasshopper.

The Grasshopper equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products it will require cleaning and upkeep. Lubricate it as specified in the manual. Observe all safety information in this manual and all safety decals on the tractor and attachments.

The illustrations and data used in this manual were current at the time of printing, but due to possible in-line production changes your machine may vary slightly in detail. The manufacturer reserves the right to make changes or add improvements to its products at any time without incurring any obligation to make such changes to products manufactured previously.

As with all lawn and grounds equipment, if handled carelessly this machine is a dangerous piece of equipment. **If used incorrectly this machine can cause severe injury.** You, the operator, are responsible when operating it. Therefore, safety is of the utmost importance.

## Safety & Operation video

To view the video, scan the QR code or enter the web address

English



English [www.grasshoppermower.com/safeops](http://www.grasshoppermower.com/safeops)

Spanish



Spanish [www.grasshoppermower.com/safeops\\_span](http://www.grasshoppermower.com/safeops_span)

## "EMISSION CONTROL INFORMATION"

THIS EQUIPMENT MEETS 2018 U.S.  
EPA EVAP STANDARDS: 40 CFR PART 1060  
FOR NONROAD EQUIPMENT.

EVAPORATIVE EMISSIONS FAMILY: JMRMPNHEQGH1

MFG'D BY: MORIDGE MANUFACTURING INC.

JAN	FEB	MAR	APR	MAY	JUN	2018
JUL	AUG	SEP	OCT	NOV	DEC	

165310

Part No. 165310

## ATTENTION:

- Read the instructions and warnings carefully before using this machine.
- Read your Grasshopper warranty enclosed with the tractor manual. To validate warranty, fill in the required information and return the warranty form within 10 days of purchase to:

**THE GRASSHOPPER CO.**  
**P.O. Box 637**  
**Moundridge, Kansas 67107**

Use only genuine Grasshopper service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model and serial number of your mower.

**MODEL:** \_\_\_\_\_

**SERIAL NUMBER:** \_\_\_\_\_  
(Serial tag is located tractor frame bottom, left of engine.)

Provide this information to your dealer to obtain correct repair parts.

**FindAGrasshopperDealer.com**

**IMPORTANT:** This equipment is equipped with an evaporative emission control system (EECS) as required by the US Environmental Protection Agency (EPA). The EECS includes the carburetor, fuel tank(s), fuel hoses, fuel cap(s), valve(s), vapor hoses, filters, clamps, and connectors. These parts should be maintained properly and replaced as needed. **DO NOT** remove, or modify any part of the EECS.

**IMPORTANT:** This equipment **DOES NOT** meet the requirements of the California Air Resources Board (CARB) for evaporative emissions. **DO NOT** operate this equipment in the State of California.

**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.

The enclosed *Engine Owner's Manual* is supplied for information regarding the US Environmental Protection Agency (EPA) and the California Emission Control Regulation of exhaust emission systems, maintenance and warranty. Replacements may be ordered through the engine manufacturer.

## WARNING

Engine exhaust, and certain components of this product contain or emit chemicals known to the state of California to cause cancer, birth defects and other reproductive harm. [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Copyright © 2018, 2017, 2016, 2015, 2014, 2013 & 2012 by The Grasshopper Company. All rights reserved.

# TABLE OF CONTENTS

	PAGE
<b>SPECIFICATIONS</b>	<b>5</b>
<b>SAFETY SYMBOLS</b>	<b>6</b>
<b>SAFETY DECALS</b>	<b>7</b>
<b>SAFETY INFORMATION</b>	
Training .....	8
Preparation .....	8
Fuel Handling Safety .....	8
Filling the Fuel Tank .....	9
Operational Safety .....	9
Maintenance Safety .....	10
Storing Safely .....	11
<b>GENERAL INFORMATION</b>	
General Information .....	12
Measurement Conversion .....	13
Bolt Size and Tightening Recommendations .....	13
<b>OPERATION</b>	
Controls and Switches .....	14
Pre-start Check List .....	15
Mounting and Dismounting the Mower .....	17
Starting the Engine .....	17
Cold Weather Starting Tips .....	17
Steering Lever Operation .....	17
Cutting Height Adjustment .....	20
Mowing .....	20
Blades .....	21
Uneven Terrain .....	22
Stopping the Engine .....	22
Moving Machine Without Power .....	23
Loading / Transporting Machine .....	23
Storing Safely .....	24
<b>LUBRICATION AND MAINTENANCE</b>	
Lubrication .....	25
Capacities .....	25
Tire Air Pressure .....	25
Drive System .....	25
Crankcase Oil and Air Filter .....	25
Cooling System .....	26
Battery Maintenance .....	26
Checking Drive System Fluid Level .....	26

(continued)

## TABLE OF CONTENTS - (CONTINUED)

Drive System Fluid and Filter Maintenance .....	26
Changing Drive System Fluid .....	27
Deck Cleaning .....	27
Blade Inspection .....	28
Blade Sharpening .....	28
Blade Removal .....	28
Blade Installation .....	29

### ADJUSTMENTS AND TROUBLESHOOTING

Loss of Power in the Drive System .....	30
Drive Belt Replacement .....	30
No Positive Neutral Position .....	30
Neutral Adjustment .....	31
Steering Lever Adjustment .....	31
Engine Troubleshooting .....	32
Park Brake Adjustment .....	32
Clutch/Brake Burnishing .....	33
Clutch Removal/Replacement .....	33
Mower Deck Leveling Adjustment .....	33
Mower Deck Cut Height Setting Adjustment .....	35
Deck Belt Adjustment .....	35
Deck Belt Replacement .....	36
Blade Spindle Assembly Removal .....	36
Blade Spindle Assembly Repair/Replacement .....	37

### PARTS LIST AND ILLUSTRATION

Tractor Assembly 124V/48 & 126V/52 .....	38
Tractor Assembly 126V/61 .....	40
Drive & Steering Assembly .....	42
Brake & Linkage Assembly .....	44
Seat Assembly & OPS Tube .....	46
Wiring Diagram .....	48
Deck Carrier Linkage .....	50
Deck Assembly - Model 124V/48 .....	52
Deck Assembly - Model 124V/48R .....	54
Deck Assembly - Model 126V/52 .....	56
Deck Assembly - Model 126V/52R .....	58
Deck Assembly - Model 126V/61 .....	60
Deck Assembly - Model 126V/61R .....	62
Blade Spindle Assembly .....	64
Discharge Spindle Assembly .....	65



# SPECIFICATIONS

124V & 126V			
<b>Engine</b>		Briggs & Stratton two cylinder, 4 cycle, air cooled	
	<b>124V/48</b>	<b>126V/52</b>	<b>126V/61</b>
Horsepower (G.I.H.P.) *	24 (17.9 kw)	26 (19.4 kw)	26 (19.4 kw)
Displacement	44.2 cu. in. (724 cc)	49.4 cu. in. (810 cc)	49.4 cu. in. (810 cc)
No-load r.p.m.	3600	3600	3600
Charging System	12VDC 16 amp. negative ground	12VDC 16 amp. negative ground	12VDC 16 amp. negative ground
Starter	Electric	Electric	Electric
Electrical System	Safety interlocked	Safety interlocked	Safety interlocked
* Engine Manufacturer's Gross Hp Rating			
<b>Deck Drive</b>		Electric clutch	
<b>Drive System</b>		Dual path hydrostatic direct drive	
<b>Steering</b>		Dual levers independently control speed and direction of travel Zero turning radius	
<b>Speed</b>			
	<b>124V/48</b>	<b>126V/52</b>	<b>126V/61</b>
Forward (variable)	0-8mph (12.9km/h)	0-8mph (12.1km/h)	0-8mph (12.1km/h)
Reverse (variable)	0-6mph (9.6km/h)	0-6mph (9.6km/h)	0-6mph (9.6km/h)
<b>Fuel Tank Capacity</b>		6.5 U.S. gal. (24.6 l.)	
<b>Tire Sizes</b>			
	<b>124V/48</b>	<b>126V/52</b>	<b>126V/61</b>
Drive Wheels - 4 ply rated	20 x 10 x 10	20 x 10 x 10	20 x 12 x 10
Front Wheels - 4 ply rated	13 x 6.5 x 6 rib	13 x 6.5 x 6 rib	13 x 6.5 x 6 rib
<b>Dimensions of Tractor</b>			
	<b>124V/48</b>	<b>126V/52</b>	<b>126V/61</b>
Seat Back Height	45" (1.14 m)	45" (1.14 m)	45" (1.14 m)
Seat Cushion Height	28" (0.71 m)	28" (0.71 m)	28" (0.71 m)
Tractor Width	44" (1.12 m)	44" (1.12 m)	49" (1.24 m)
Tractor Length	75" (1.91 m)	75" (1.91 m)	78" (1.98 m)
Wheel Base	45" (1.14 m)	45" (1.14 m)	48" (1.22 m)
Weight - Uncrated	810 lbs (367 kg)	830 lbs (376 kg)	880 lbs (400 kg)
Weight - Crated	1060 lbs (481 kg)	1080 lbs (490 kg)	1130 lbs (512 kg)
<b>Hour Meter</b>		Standard	

# SAFETY SYMBOLS



This Safety Alert Symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

Throughout this manual the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING** and **DANGER** are used in conjunction with the Safety Alert Symbol [a triangle with an exclamation mark] to indicate the degree of hazard for items of personal safety.

## **CAUTION**

Is used for general reminders of good safety practices or to direct attention to unsafe practices.

## **WARNING**

Denotes a specific potential hazard.

## **DANGER**

Denotes the most serious specific potential hazard.

# SAFETY DECALS

Replace Immediately If Damaged

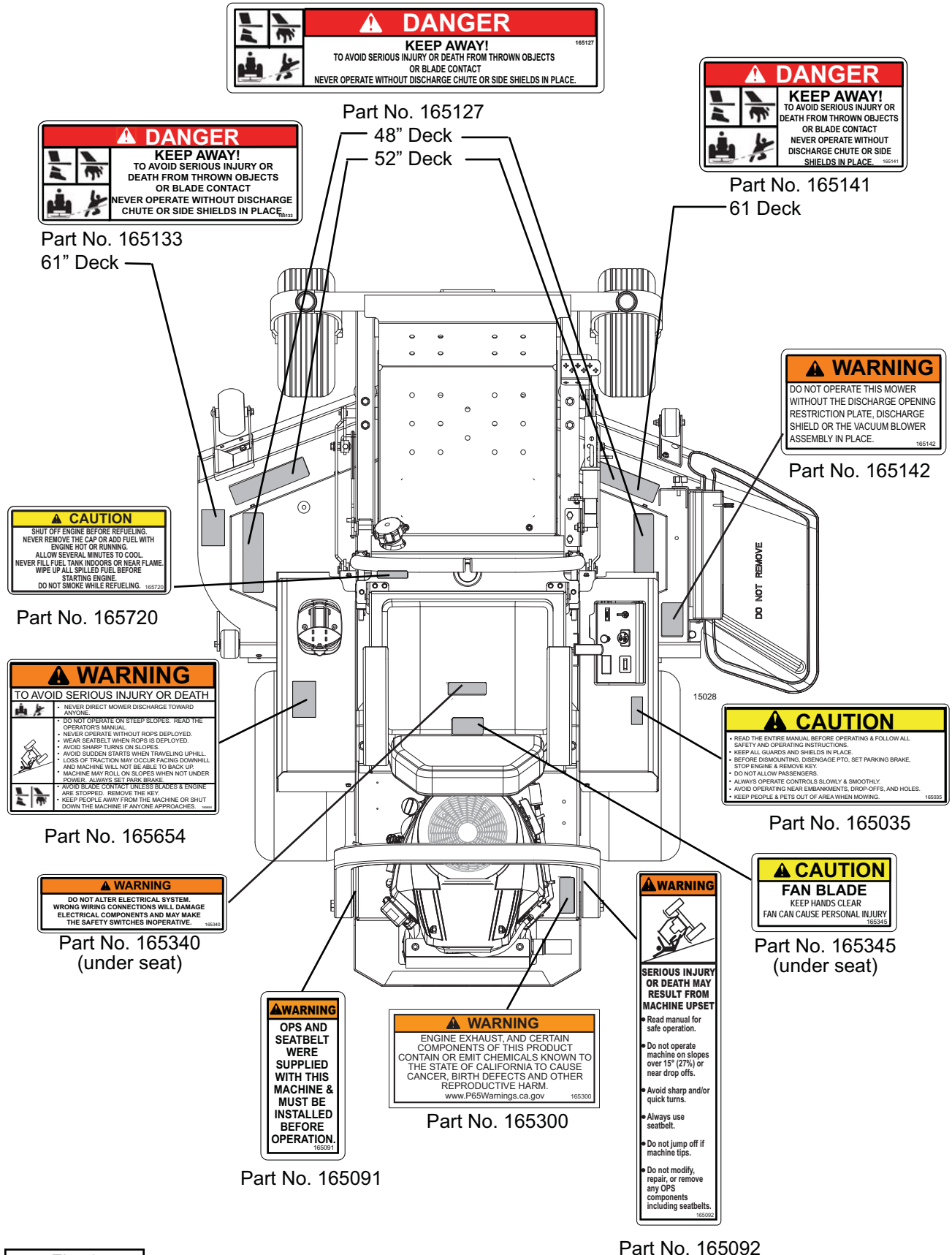


Fig. 1

# WORK SAFELY - FOLLOW THESE RULES

## CAUTION

The designed and tested safety of this machine depends on it being operated within the limitations as explained in this manual. Read manual before operating.

## TRAINING

- Safety instructions are important! **READ THIS MANUAL AND ALL SAFETY RULES.**
- Know your controls and how to stop machine, engine and mower deck quickly in an emergency.
- To avoid accident or injury, do not allow anyone to operate this machine without proper instruction. Any person who operates this machine **MUST** be instructed in and capable of the safe operation of the unit and all controls.
- Do not allow children or unqualified individuals to operate machine.

## PREPARATION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough soled work shoes. Never operate machine in bare feet, sandals or sneakers.
- This machine produces sound levels in excess of 85 dBA at the operator ear and can cause hearing loss through extended periods of exposure. Wear hearing protection when operating this machine.
- Walk around machine and visually inspect for damaged, loose, or missing components. Do not operate unless all components are properly mounted, adjusted and in good working condition.
- Ensure all safety switches function properly. See Operation section for details.
- Ensure all safety shielding is in good condition and properly installed.
- Ensure either the discharge shield, restriction plate, or complete vacuum attachment is installed.
- Ensure OPS is in good condition and installed properly. Never modify OPS with holes, notches or welding. If OPS is damaged, it must be replaced.

- Check brake action before you operate. Adjust or service brakes as necessary.
- Ensure all safety decals are installed and in good condition.
- Remove accumulated debris from machine to avoid fire hazard.
- Inspect area to be cut removing stones, branches and other debris that might be thrown causing injury or damage.
- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job.
- Low-hanging branches and similar obstacles can injure the operator or interfere with mowing operation. Before mowing, identify potential obstacles such as low-hanging branches, and trim or remove those obstacles.
- Never permit any person, other than the operator, to ride or board the mower at any time.
- Operate only in daylight or good artificial light.

## FUEL HANDLING SAFETY

- In certain conditions, gasoline, ethanol, diesel and other types of fuel are extremely flammable and highly explosive. A fire or explosion from fuel can burn you and others and can damage property.
- Fill the fuel tanks outdoors, in an open area, when the engine is cold. Wipe up any fuel that spills.
- Do not remove the fuel cap if the engine or fuel tank is hot. Allow several minutes to cool.
- Remove the fuel cap slowly to release any pressure from the fuel tank.
- Do not fill the fuel tanks completely full. Add fuel to the tank until the level is .25" to .5" (6 mm to 13 mm) below the bottom of the filler neck. This empty space in the tank allows fuel to expand.
- Never smoke when handling fuel, and stay away from an open flame or where fuel fumes may be ignited by a spark.
- Store fuel in an approved container and keep it out of the reach of children. Never buy more than a 30-day supply of fuel.
- Never store antifreeze or oil in the fuel

container.

- Always place fuel containers on the ground away from your vehicle before filling.
- Do not fill fuel containers inside a vehicle or on a truck or trailer bed because interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
- When practical, remove equipment from the truck or trailer and refuel the equipment with its wheels on the ground.
- If this is not possible, then refuel such equipment on a truck or trailer from a portable container, rather than from a fuel dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or portable container opening at all times until fueling is complete.
- Never use cellular phones or other portable electronic devices when handling fuel.

## **FILLING THE FUEL TANK**

- Always fill the fuel tank with the machine parked on a hard LEVEL surface with the engine stopped, the park brake set, and the key removed from the ignition.
- Do not fill the fuel tank completely full. Air space is required in the full tank to allow the fuel to expand and contract with temperature changes. A valve is located in the top center of the tank to allow air to enter and exit the tank.
- Never remove the fuel cap or fill the fuel tank when the engine is hot. Allow several minutes to cool.
- Filling the fuel tank, with the machine parked on a slope, can cause you to over fill the tank.

## **OPERATIONAL SAFETY**

- Read "Operation" section of this manual before attempting to operate this unit.
- This machine is equipped with an Operator Protective Structure (OPS) and a seat belt. Do not operate this machine without the OPS installed and in good condition.
- Always wear the seatbelt.
- Do not operate on slopes greater than 15

degrees (27%).

- To determine the angle of a slope, an angle measuring device (inclinometer) is readily available at your local hardware store.
- Fenders serve as shields. Do not operate without them.
- DO NOT drive machine without mower deck installed. The proper stability of the machine depends on the weight of the mower deck.
- Keep bystanders away from equipment while it is in operation.
- Keep children and pets a safe distance away. Never direct discharge toward anyone.
- Start engine from operator's seat after disengaging PTO and placing steering levers into the swing-out (neutral lock) position.
- Keep hands and feet away from underneath mower deck while engine is running. Stay clear of all moving parts on machine.
- Wear suitable hearing protection when operating this machine.
- Do not operate in reverse unless absolutely necessary and then only after careful observation of the entire area behind you.
- If operator must dismount to make adjustments the engine must not be running.
- Do not move steering levers from forward to reverse or reverse to forward position rapidly. The sudden direction change could cause loss of control, especially on slopes.
- Reduce speed on slopes and sharp turns to minimize tipping and avoid loss of control.
- The operator is responsible for safe operation on slopes, even slopes of 15 degrees (27%) or less. Only the operator can determine the stability of the mower on a given slope based on existing conditions like: machine speed and direction, slope variation, slipperiness, drop-offs, holes, obstacles, etc.
- Stay alert for holes, rocks, roots and other hidden hazards in the terrain. Keep away from drop-offs and soft embankments.
- Stop machine and mower deck immediately upon striking an obstruction. Turn

engine off, inspect machine and mower deck. Repair any damage before resuming operation.

- Disengage PTO, stop engine, set park brake, remove key and wait for all movement to stop before dismounting, making adjustments, cleaning, or unclogging the machine.
- Never transport mower with blades running. Disengage PTO before crossing streets, sidewalks, driveways, etc.
- Watch for traffic when operating near or crossing roadways.
- This machine is not equipped for highway use, especially when safety lighting and marking is required. It is not a recreational vehicle.
- This unit is not equipped with a drawbar. Do not pull loads.
- Take all possible precautions when leaving machine unattended: disengage PTO, lower mower deck, place steering levers in neutral, set parking brake, stop engine and remove key from ignition.
- Never carry passengers.
- Never run engine indoors or in an enclosed area, unless exhaust gases are safely removed to the outdoors with an exhaust pipe extension/hose combination. Exhaust gases contain carbon monoxide, an odorless and deadly poison.

## **MAINTENANCE SAFETY**

- Always perform maintenance with the machine parked on a hard level surface; with the engine stopped and the PTO disengaged; with the park brake set; and with the key removed from the ignition.
- Always remove the grounded (-) clamp from the battery when performing maintenance on the engine, clutch, or any other electrical system. The battery is located under the right fender.
- Always wear close fitting clothing and safety equipment appropriate for the job. Keep work area clean and dry.
- Never work under the machine without jack stands or other equivalent safety blocks. Do NOT rely solely on mechanical or hydraulic jacks or lifts for support.

Always use adequate wheel chocks on tires remaining on the ground.

- Never work under the attachment without holding it in the upright position with chains or straps or blocking underneath the deck. Do NOT rely solely on the electric or hydraulic system.
- Hydraulic hoses can fail due to physical damage, kinks, age, and exposure. Check hoses regularly. Replace damaged hoses.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- Never run engine indoors or in an enclosed area, unless exhaust gases are safely removed to the outdoors with an exhaust pipe extension/hose combination. Exhaust gases contain carbon monoxide, an odorless and deadly poison.
- Waste products such as used oil, fuel, coolant, and batteries can harm the environment and people. Dispose of waste products properly.
- Never attempt to disconnect or alter any part of the safety interlock systems.
- Do not change engine governor settings.
- Keep engine free of grass, leaves, or excess grease to reduce fire hazard and minimize engine overheating.
- Keep machine and mower deck in good operating condition and all safety devices in place.
- Periodically tighten all bolts, nuts and screws. Check that all locking pins are properly installed and in good condition.
- Check brake operation frequently. Adjust and service as required.

## STORING SAFELY

- Never store machine with fuel in the tank inside a building where fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer, or other gas appliance. Allow engine to cool before storing in an enclosure.
- If engine is to be unused for 30 days or more, add a fuel stabilizer to the fuel system. Fuel stabilizer (such as STABIL<sup>®</sup>) is an acceptable additive in minimizing the formation of fuel gum deposits during storage. Add stabilizer to fuel in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach the carburetor or injectors.
- If draining fuel tank, drain fuel into an approved container outdoors and away from open flame.
- Never run engine indoors or in an enclosed area, unless exhaust gases are safely removed to the outdoors with an exhaust pipe extension/hose combination. Exhaust gases contain carbon monoxide, an odorless and deadly poison.
- Never store an attachment in the raised position without securing the attachment with chains or straps or blocking underneath the attachment. It is best to remove attachment from tractor. Remove all accumulated debris from attachments and tractor.
- Clean machine with air or cloths. DO NOT high pressure wash. Never clean hot components with cold water.
- Remove all accumulated debris from mower deck and tractor.
- Sand areas where paint is chipped and repaint to prevent rust. Lubricate all locations to prevent moisture damage during storage.

# GENERAL INFORMATION

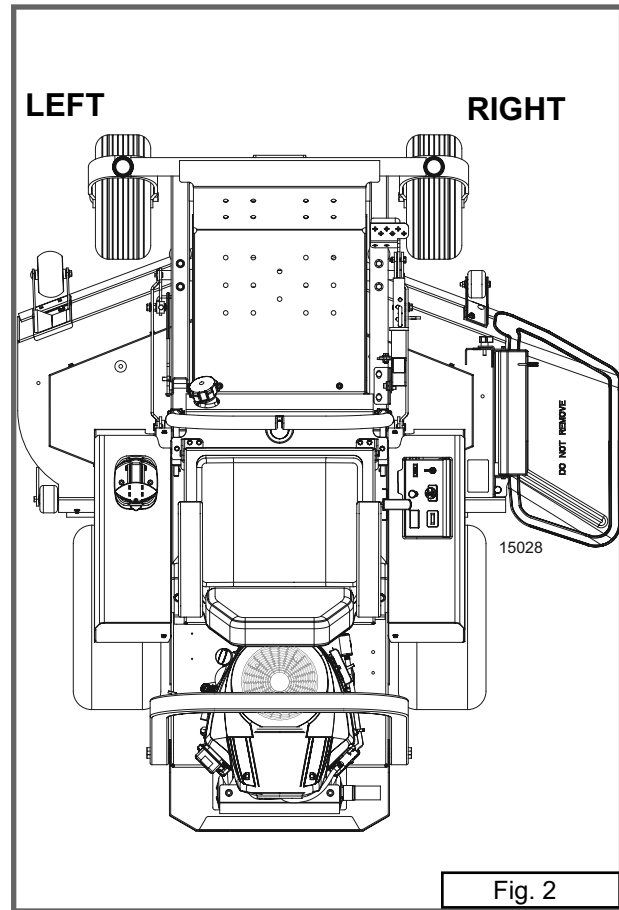
The purpose of this manual is to assist the operator in maintaining and operating **GRASSHOPPER** mowers. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance.

These operating and maintenance instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying conditions. However, through practice and these instructions you should be able to develop operating procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible in-line production changes, your machine may vary slightly in detail. **GRASSHOPPER** reserves the right to redesign and change the machine as necessary without notification.

## **WARNING**

**Some illustrations in this manual show the machinery with safety shields removed to provide a better view. The machine should never be operated with any safety shielding removed.**



Throughout this manual, references are made to right and left directions. These are determined by standing at the rear of the equipment and facing the direction of forward travel.

Mower blade rotation is clockwise as viewed from the top of mower.



## MEASUREMENT CONVERSION

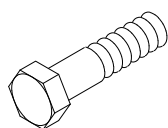
Measurements expressed in this manual are decimal values. Use the chart below if you are unsure of a measurement to obtain the fractional equivalent.

Conversion Table - Inches			
Decimal	Fraction	Decimal	Fraction
0.062	1/16	0.562	9/16
0.125	1/8	0.625	5/8
0.187	3/16	0.687	11/16
0.250	1/4	0.750	3/4
0.312	5/16	0.812	13/16
0.375	3/8	0.875	7/8
0.437	7/16	0.937	15/16
0.500	1/2	1.000	1

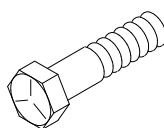
## BOLT SIZE AND TIGHTENING RECOMMENDATIONS

The chart below lists the correct tightening torque for bolts used on Grasshopper machinery. When bolts are to be tightened or replaced refer to this chart to determine the grade of bolt and proper torque (*except when specific torque values are assigned in the manual text*).

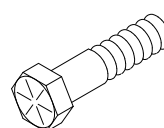
### Bolt Head Markings



SAE Grade 2  
(no dashes)



SAE Grade 5  
(3 radial dashes)



SAE Grade 8  
(6 radial dashes)

Recommended Torque in Foot Pounds				
Bolt Diameter in Inches				
Decimal	Fraction	SAE Grade 2	SAE Grade 5	SAE Grade 8
0.250	1/4	6	11	14
0.312	5/16	13	21	25
0.375	3/8	23	38	55
0.437	7/16	37	55	80
0.500	1/2	57	85	120
0.562	9/16	82	125	180
0.625	5/8	111	175	230
0.750	3/4	200	300	440
0.875	7/8	280	450	720
1.000	1	350	680	1035

# OPERATION

The safe operation of this machine is the responsibility of the operator. Any person who operates the machine **MUST** be instructed in and capable of the safe operation of the machine and all controls. Read all safety information on pages 6 through 11.

## CONTROLS AND SWITCHES

(Refer to Fig. 3)

Know your controls and how to stop the machine, engine, and mower deck quickly in an emergency. Do not operate this machine until you are completely familiar with the controls and comfortable with your ability. We recommend you practice in a flat open area at half throttle until you are comfortable with all the controls.

The two **Steering Levers** control speed, motion, and direction of the machine and are located on each side of the seat. The left lever controls flow of hydraulic oil from the left pump to the left drive wheel motor. The right lever controls flow of hydraulic oil from the right pump to the right drive wheel motor. This allows left and right drive wheels to turn independently, which provides the "zero turn" ability. Each lever has two positions: The swung "out" neutral lock position, where the lever will not activate the pump; and the swung "in" operation position, where the lever will activate the pump. For details of steering lever operation, refer to the "Steering Lever Operation" section, page 17-19.

The following controls are located on or beside the Operator's Console which is located to the right side of the seat.

- The **Ignition Switch** (A) is the key switch located on the console. The ignition switch is used to start and stop the engine. The switch has three positions OFF, RUN, and START. Insert the key into the switch and rotate clockwise to the RUN position. The **Brake Light** (B) should be on at this point. Rotate the switch clockwise to the next (START) position to engage the engine starter (key must be held against spring pressure in this position).

- The **Choke Control** (C) is the small black push/pull knob located on the console. The choke is used to aid in starting a cold engine. Pull the choke knob "up" to activate the choke on the engine. Push the choke knob "down" for the choke to be off. **DO NOT** run a warm engine with the choke on.
- The **Throttle Control** (D) is the large black lever located beside the console to the right of the seat. The throttle is used to control engine speed. Move the throttle lever forward to increase engine speed and rearward to decrease engine speed.
- The **PTO switch** (E) is the red push/pull knob located on the console. Pull PTO knob "up" to engage the electric clutch that drives the belt connected to the mower deck that drives the cutting blades. Push the PTO knob "down" to disengage the electric clutch that stops the blades from turning within a few seconds.
- The **Hour Meter** (F) is the number indicator located on the console. The electric hour meter is connected to the ignition circuit and is provided to record the number of hours the engine runs. If the ignition switch is left on, without the engine running, the hour meter will continue to record.

The **Park Brake Lever** is the lever located on the left side of the footrest. The brake lever engages compression style parking brakes on the drive tires. Pull the brake lever up and rearward until the lever over centers and locks to set the brakes "on". Push the brake lever forward and down to release the brakes "off".

Several **Safety Switches** are incorporated in this machine's design to prevent the engine from being started in certain conditions and to kill the running engine in certain conditions. These circuits should be checked before each operation to ensure they are working properly. See page 16 for check list on these circuits.

The **Start Circuits** will keep engine from starting unless:

- Both steering levers are swung out in their neutral locked position, and
- The PTO switch is down in it's disengaged position.

The **Kill Circuits** will stop the running engine if:

- The operator raises off the seat any time during operation of the machine with PTO engaged or steering levers in operating position.
- The steering levers are in their operating position and the park brake lever is moved into engaged locked (up) position.
- The park brake is set and the steering levers are moved into their operating position.
- The operator is off the seat and the steering levers are moved into their operating position.
- The operator is off the seat and the PTO switch knob is pulled up to its engaged position.

### **WARNING**

**Do not operate this machine unless all safety systems are working properly as described above.**

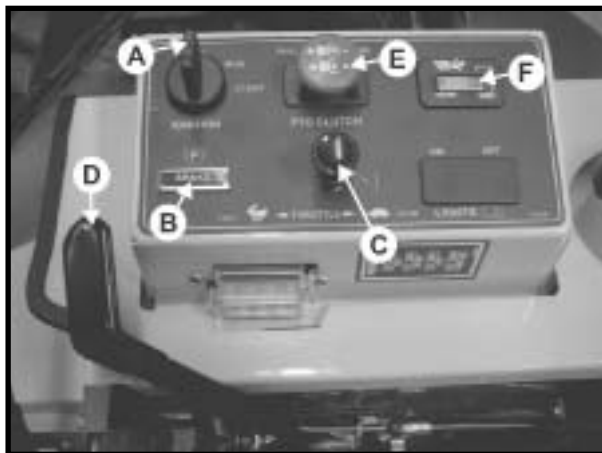


Fig. 3

## **PRE-START CHECK LIST**

Maintain desirable operational standards and help ensure the safety of the operator by routinely checking the following on a daily basis:

- Walk around the machine and visually check for loose or missing components. Make sure all components are mounted properly and are in good working condition.
- Make sure all fenders, guards and shields are safely and securely attached.
- Make sure the discharge shield or restriction plate is installed at the discharge opening on the mower deck.
- Make sure all safety decals are clearly readable (see page 7).
- Check hydrostatic transmission fluid level. DO NOT operate machine with low fluid. Low fluid could cause damage to transmission and loss of control of the machine.
- Check engine oil level (refer to "Engine Manual" for proper level and type of oil used).

### **CAUTION**

**Never attempt to check oil while engine is running.**

- Check for oil and fuel leaks.
- Clean rotating air intake screen on engine. When mowing in dusty conditions, dry grass or long grass, it may be necessary to frequently clean rotating air intake screen to prevent engine overheating.

### **WARNING**

**Never attempt to clean rotating air intake screen while engine is running.**

- Check air cleaner (refer to "Engine Manual"). When mowing in dusty conditions, dry grass or long grass, it may be necessary to frequently clean the foam pre-cleaner and paper cartridge.
- Make sure the engine is free of dirt and debris.
- Check fuel level. Refer to "Engine Manual" for correct fuel for your requirements.

- For best results, use only clean, fresh, unleaded gasoline with an octane rating of 87 or higher ((R+M)/2 rating method).
- **Do Not** use ethanol blends of gasoline (such as E15 or E85) with more than 10% ethanol by volume. Performance problems and/or engine damage may result which may not be covered under warranty.
- **Do Not** use gasoline containing methanol.

### **DANGER**

**Do not fill fuel tank while engine is running. Allow engine to cool several minutes before adding fuel. If fuel is spilled, do not start engine and avoid creating a source of ignition until the fuel is wiped clean and evaporated.**

- Check tire pressure (see page 25). Improper pressure will adversely affect traction, steering and level cutting height.

- Check tires for damage or cracking.
- Check hydrostatic pump drive belt for damage or cracking.
- Check mower deck belt for damage or cracking.
- Check mower deck level.
- Check to ensure blades are sharp and secure; the cutting edge should be positioned in the direction of blade rotation (clockwise as viewed from top of mower deck).
- Adjust cutting height if necessary.
- Check operation of park brake (see "Park Brake Adjustment" page 32).
- Remove grass and debris from machine.
- Test safety interlock systems (see chart below). Perform these tests in a clear open area and keep bystanders away. If there is a malfunction during one of these procedures, DO NOT operate machine. (See your Grasshopper dealer).

### Test Safety Interlock System Daily

Action	Left Steering Lever	Right Steering Lever	PTO Switch	Parking Brake	Proper Result
Start Circuits					
Try starting engine	Out	Out	Off	On	Engine Cranks
Try starting engine	<b>In</b>	Out	Off	On	<b>Engine will not crank</b>
Try starting engine	Out	<b>In</b>	Off	On	<b>Engine will not crank</b>
Try starting engine	Out	Out	<b>On</b>	On	<b>Engine will not crank</b>
Kill Circuits (with engine running at 1/2 throttle)					
Raise off seat	Out	Out	Off	On	Engine does not stop
Raise off seat	<b>In</b>	Out	Off	Off	<b>Engine Stops</b>
Raise off seat	Out	<b>In</b>	Off	Off	<b>Engine Stops</b>
Raise off seat	Out	Out	<b>On</b>	On	<b>Engine Stops</b>
Move left steering lever in		Out	Off	On	<b>Engine Stops</b>
Move right steering lever in	Out		Off	On	<b>Engine Stops</b>

## MOUNTING AND DISMOUNTING THE MOWER

Always mount and dismount the mower from the left side, with the brake on, the PTO disengaged (down), the engine off, and the steering levers in their swung out (neutral lock) position. Mount the mower by stepping from the ground to the left side of the deck with your left foot, then step over the deck carrier frame to the footrest with your right foot. Wait for all moving parts to stop before dismounting. Dismount the mower by standing up on the footrest, then turn to the left and step from the footrest, over the deck carrier frame, to the left side of the deck with your right foot, and then step to the ground with your left foot. The left steering lever can be used to stabilize your movement; however, it is not strong enough to support all your weight. Never leave the mower unattended with the key in the ignition.

## STARTING THE ENGINE

### **DANGER**

**Never start the engine in confined rooms. Exhaust gases contain carbon monoxide, an odorless and deadly poison.**

**Do not allow children to approach the machine while the engine is running.**

**Do not operate the machine around open flames such as trash fires.**

**Do not operate the engine when an odor of fuel is present or other explosive conditions exist.**

- Position yourself on the tractor seat.
- Engage the park brake.
- Place both steering levers in swing-out neutral position.
- Place electric clutch switch in "OFF" (down) position.
- Set the throttle at 1/3 open.
- Insert the key into the ignition switch and turn to "RUN" position.
- Check to see that the brake lamp is on.

- Turn the key to "START" position. Choke as necessary to start. When engine starts, release key immediately. Push choke knob down gradually until choke is completely off and engine is running smoothly.
- Warm the engine up at medium speed for several minutes.

You will enhance the starter life by using short starting cycles of several seconds. Engaging starter motor more than 15 seconds per minute can result in damage to starter.

## COLD WEATHER STARTING TIPS

Use proper viscosity oil for temperature expected (see "Engine Manual").

Set throttle at half open.

A warm battery has better starting capacity than a cold one.

Use fresh winter grade fuel. It is better for winter starting than leftover summer grade fuel.

## STEERING LEVER OPERATION

(Refer to page 19, Fig. 4)

### **WARNING**

**Do not move steering levers from forward to reverse or reverse to forward position rapidly. Sudden direction changes could cause loss of control or damage the machine.**

### **CAUTION**

**Help prevent personal injury. Learn use of the steering levers and practice at half throttle until becoming proficient and comfortable with the operation of the machine.**

The steering levers control speed, motion and direction of the machine. The steering levers have two positions: (1) **Neutral Lock**, where the lever(s) are swung completely outward and cannot be moved fore and aft; (2) **Operating**, where the lever(s) are swung in and can be moved fore and aft.

### **Neutral Lock Position:**

- Forward and reverse movement of the motion control levers is prevented when levers are in the swung out (neutral lock) position. Machine should not move with the steering levers in the swung out (neutral lock) position and the park brake released. If machine does move, see "Neutral Adjustment" section page 31.
- Steering levers must be in the swung out (neutral lock) position to start the engine.
- Steering levers must be in the swung out (neutral lock) position to safely enter and exit the operator seat.
- Operator can exit mower with the engine running when the steering levers are in the swung out (neutral lock) position, PTO switch is disengaged, and the park brake is engaged.

### **Operating Position:**

- Machine speed, motion and direction can be controlled when the engine is running, park brake is released, and steering levers are in the swung in (operating) position.

### **Neutral**

- When the steering levers are swung in and centered fore and aft, they are in operating (neutral). In operating (neutral), the hydrostatic pumps do not deliver fluid to the wheel motors.

### **Forward and Reverse Motion:**

- Pushing both levers forward at the same time will move the machine forward.
- Pulling both levers to the rear at the same time will move the machine in reverse.
- The further forward or rearward the steering levers are moved, the faster the machine will move in that direction.

### **Turning:**

- While moving forward, turn gently right by pushing the left lever further forward than the right.
- While moving forward, turn gently left by pushing the right lever further forward than the left.
- Make a sharp turn right by pushing the left lever forward and pulling the right lever rearward at the same time.

- Make a sharp turn left by pushing the right lever forward and pulling the left lever rearward at the same time.
- DO NOT turn the machine by leaving one lever in neutral and moving the other lever. This will cause damage to the turf under the tire that is not rotating.

### **Stopping:**

- To stop motion, move both steering levers back to neutral. Machine is equipped with springs to automatically return both levers to neutral. If levers do not automatically return to neutral, see your authorized Grasshopper dealer for adjustment.

## **IMPORTANT**

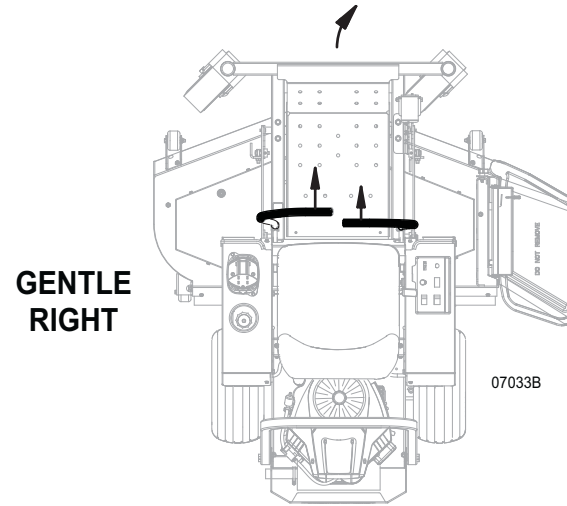
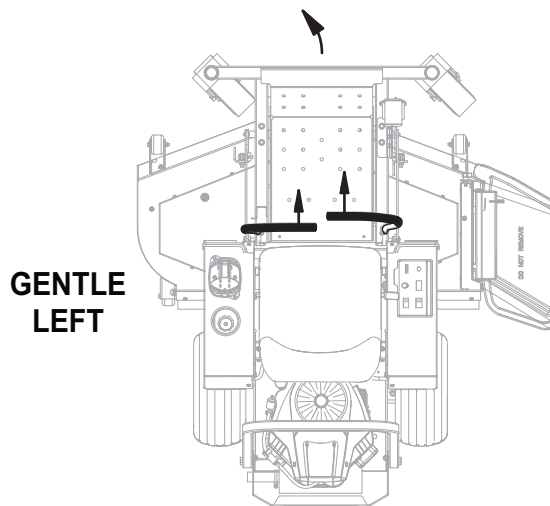
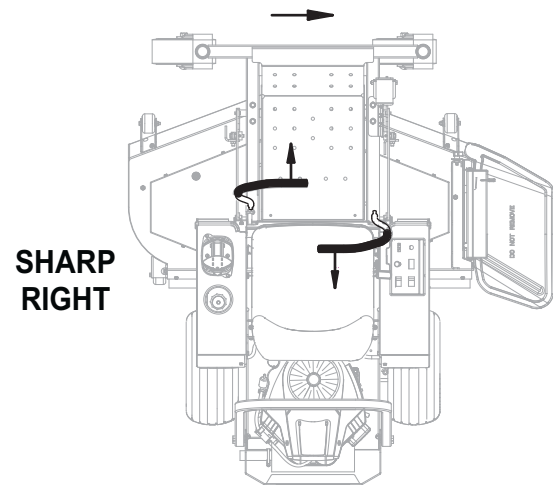
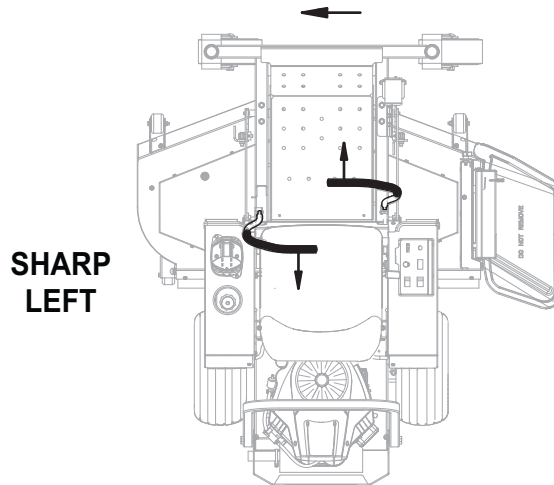
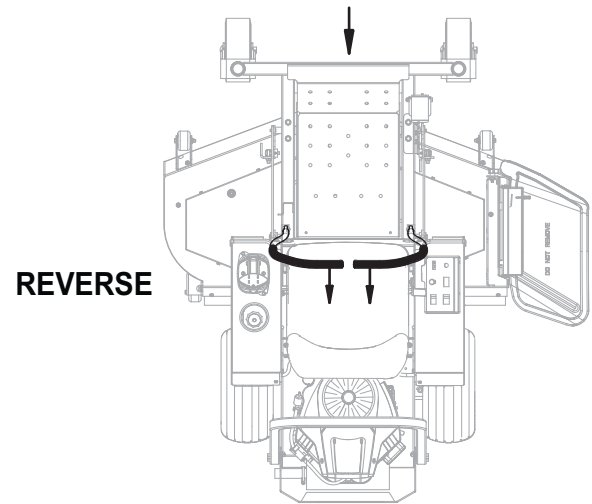
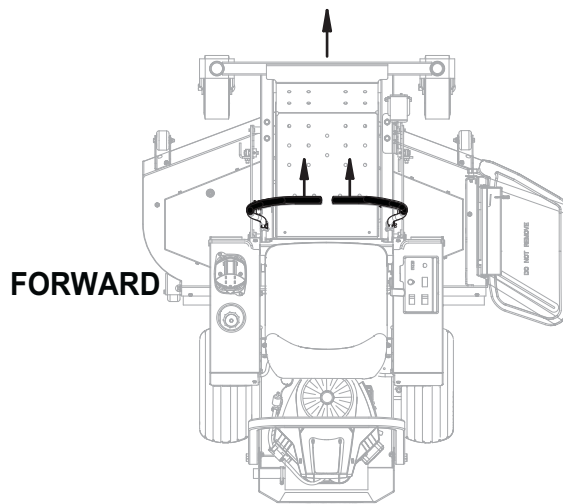
**If you become confused during operation, release both steering levers. They will automatically return to the centered neutral position and the machine will stop.**

## **IMPORTANT**

**Inspect hydrostatic drive belt(s) daily. DO NOT operate on steep slopes. DO NOT operate near drop offs or embankments.**

Since hydrostatic drive systems are a direct, hydraulic connection to the drive wheels, they provide a means of braking during operation. If the hydrostatic drive system belt breaks or comes off, the system no longer provides any control. In this condition, return steering levers to the swing out, neutral position and apply the parking brake. The pumps (in the neutral position) will provide the most resistance to the drive wheels. Do not move the steering levers from the swung out, neutral position, as this will open passage ways in the pumps and freewheeling can occur.

## STEERING LEVER OPERATION



07033B

Fig. 4

## CUTTING HEIGHT ADJUSTMENT

(Refer to Fig. 5)

1. The mower deck cutting height adjustment mechanism is located to the right front of the operator seat on the deck carrier frame.
2. When adjusting cutting height always come to a complete stop, disengage (down) the PTO and wait for blades to stop rotating.
3. Pushing down on the foot lever (A) with your foot will raise the deck and take pressure off the height adjustment pin (B).
4. To change cutting height, push down on the foot lever (A) and rotate the deck latch (F) behind the latch tube guide (E) to support the deck. This puts the deck in the transport (5 inch cut) height position.
5. With the deck supported by the deck latch (F), place the height adjustment pin (B) in the hole indicated by the cutting height decal for the desired cutting height.
6. To set the deck at this cut height, push down on the foot lever (A) until pressure on the deck latch (F) is released and lift the deck latch (F) out from behind the latch tube guide (E). Then slowly decrease pressure on the foot lever (A) to allow the deck to lower and the adjustment tube (C) to move backward through the latch tube guide (E) until the height adjustment pin (B) contacts the end of the latch tube guide (E) and supports the deck.
7. Holes provided in the adjustment tube (C) allow for cutting height adjustment in 1/2 inch increments. A height adjustment spacer (D) is provided to allow for cutting height adjustment in .25 inch increments.
8. To set cutting height at a .25 inch increment, the height adjustment spacer (D) should be located between the height adjustment pin (B) and the end of the latch tube guide (E).
9. To set the cutting height at a .5 inch increment, the height adjustment spacer (D) should be located forward of the height adjustment pin (B).

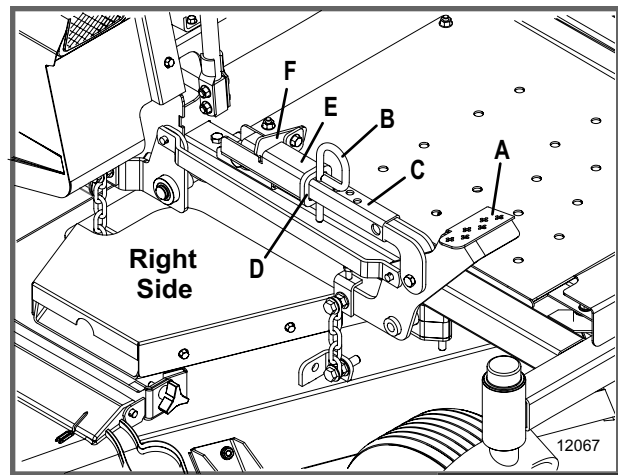


Fig. 5

## MOWING

### WARNING

**Walk area before mowing, picking up all rocks, twigs and other debris. Enter new areas carefully. Cut grass higher the first time to allow mower to clear unseen objects. Never assume an area is clear - always check!**

**Clear mowing area of all people when operating mower. Thrown objects could injure bystanders.**

### WARNING

**Before starting to mow, position the machine in the area to be mowed with the mower deck set at the desired cutting height. With the engine at full throttle, pull up on the PTO switch knob to start the blades turning.**

### DANGER

**To avoid serious injury or death from thrown objects or contact with blades, NEVER operate mower without discharge shield or restriction plate installed.**

**Keep hands and feet away from discharge opening.**



Before mowing, analyze the area to determine the best mowing procedure. Consider height, type of grass and terrain type (rolling, level or rough).

Proper ground speed for mowing will depend on the height, type and density of grass to be cut. Normally, ground speed will range from three to six miles per hour. Tall dense grass should be mowed at a low speed, while thin medium height grass can be cut at a faster ground speed. Always operate engine at full governed rpm when mowing. This is necessary to maintain proper blade speed to produce a clean cut.

Follow local recommendations for the suitable cutting height in your area. Avoid mowing grass too short to increase mowing intervals. This may stress the grass during hot weather and encourage weed growth during the growing season.

Mow with uncut grass to the left. This will distribute the clippings over the cut area. Discharging clippings over the uncut area will cause a grass buildup and may prevent uniform cutting.

Remember that sharp blades produce cleaner cuts and use less power.

Extremely tall grass should be mowed twice. Cut grass higher on first pass. Cut the second time at desired height and 90° to the first pass.

## BLADES

### HI-LOW MULCHING BLADE



Hi-Low mulching blades are recommended with the discharge restriction plate and front shrouds installed (down discharge mulching option).

### MEDIUM LIFT BLADE



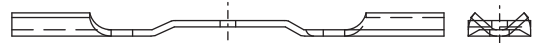
Medium lift blades are recommended when the optional vacuum attachment is installed.

### CONTOUR BLADE



Contour blades are designed for operation with the side discharge shield and may be used when the optional vacuum attachment is installed.

### HIGH LIFT NOTCHED BLADE



High lift notched blades should be used when the side discharge shield has been installed. These blades are recommended for mowing tall and/or lush areas.

Fig. 6

## UNEVEN TERRAIN

### **WARNING**

**Be careful when operating mower on uneven ground.**

**Do not operate on steep slopes. Operation on a steep slope could cause loss of control, machine to overturn and personal injury or death.**

- Do not operate on slopes over 15 degrees (27%). This machine was not specifically designed to operate on steep slopes.
- The operator is responsible for safe operation on slopes, even slopes of 15 degrees (27%) or less. Only the operator can determine the stability of the mower on a given slope based on existing conditions like: machine speed and direction, slope variation, slipperiness, drop-offs, holes, obstacles, etc.
- To determine the angle of a slope, an angle measuring device (protractor/inclinometer) is readily available at your local hardware store.
- Always start mowing at the bottom of slopes. Traveling up slopes, this machine has more traction traveling forward than reverse. Be careful on slopes to avoid driving forward into a position where there is not enough traction to enable backing out or stopping.
- Tires may lose traction on slopes even though the brakes are functioning properly.
- Avoid sudden starts and acceleration when traveling forward uphill as mower may tip backwards.
- Do not mow slopes when grass is wet because slippery conditions will reduce traction and braking which in turn affects steering.
- Use caution when making turns. Slow the mower down before making sharp turns. Unit can spin very rapidly by positioning one lever too much ahead or behind the other.
- Look around you to be sure the area is clear before turning or backing up.

- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction.
- Follow manufacturer's recommendation for counterweights for added stability when operating on slopes or using front or rear mounted attachments. Remove weights when not required.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine. Do not use grass catcher on steep slopes.
- Do not operate without OPS installed.
- Always wear seatbelt.
- Be certain that the seatbelt can be released quickly if the machine is driven or rolls into ponds or water.
- Check carefully for overhead clearances such as, branches, doorways, or electrical wires, before driving under any objects and do not contact them.

## STOPPING THE ENGINE

- Set the throttle at 1/3 open. Allow engine to idle at this setting for several minutes.
- Move ignition switch to "OFF" position (up-right) and remove key.
- Never use carburetor choke to stop engine.

### **CAUTION**

**Always remove key from ignition switch when leaving machine unattended or when not in use.**

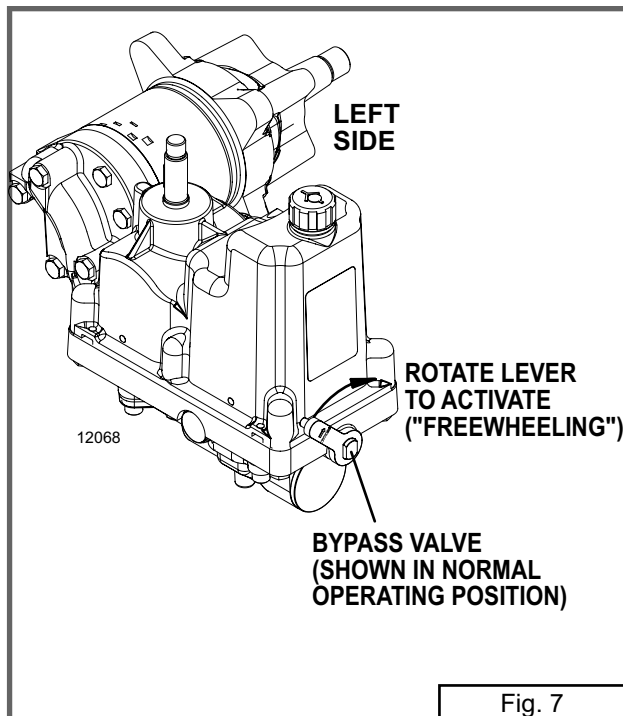
## MOVING MACHINE WITHOUT POWER

(Refer to Fig. 7)

The integrated transmissions are equipped with a bypass valve that allows the machine to be moved without power by deactivating the transmission. With the bypass valve in normal operating position, the fluid in the transmission will make it difficult to move the unit (even with the steering levers in neutral position). The bypass valve is located on the front of each transmission. Before activating the bypass valve, set the park brake. Raise the seat and activate the bypass valve by rotating lever toward the left side of unit. When BOTH transmissions are deactivated, the unit becomes "freewheeling", allowing it to be moved. Before the transmissions become operational, the bypass valves must be returned to their normal operating position.

### WARNING

**Be careful activating bypass valves when machine is on a slope. Machine could "freewheel" out of control causing serious injury or damage to equipment.**



## LOADING / TRANSPORTING MACHINE

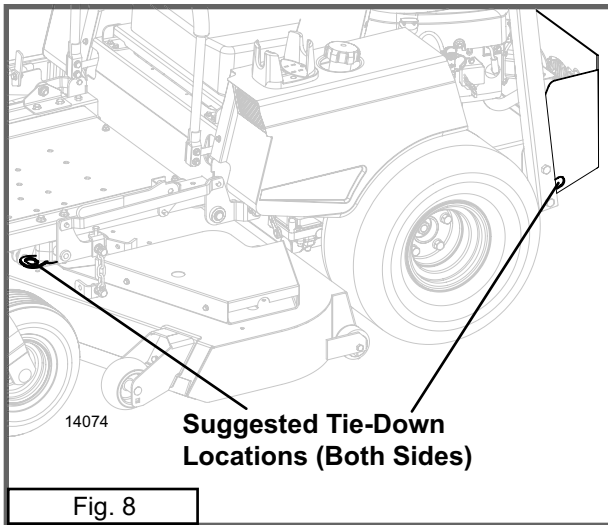
### WARNING

**Loading a machine onto a trailer or truck increases the possibility of tip-over and could cause serious injury or death.**

Use a heavy-duty trailer to transport your machine. Trailer rating must exceed combined weight of machine and attachments. Trailer must have the necessary lights and signs required by law.

1. Park trailer on a hard level surface.
2. Push PTO switch down to the "OFF" position.
3. REVERSE machine onto trailer with mower deck raised to the transport (highest) height position.
  - Use extreme caution when operating machine on a ramp. Move Slowly.
  - Avoid sudden acceleration and deceleration when operating machine on a ramp.
  - Reverse machine up ramp and drive forward down ramp. **DO NOT** attempt to turn machine while on a ramp.
  - Use only a single, full width ramp; **AVOID** individual ramps for each side of the machine.
  - If it is not possible to use one full width ramp, use enough individual ramps tied together to simulate a full width continuous ramp.
  - **DO NOT** exceed a 15 degree angle between ramp and ground or between ramp and trailer or truck.
4. Position machine on trailer for optimal weight distribution (generally slightly forward of trailer axle). Follow tow vehicle and trailer manufacturer guidelines.
5. Stop the engine, engage the park brake and remove the key.
6. Place the height adjustment pin in the bottom (one inch) hole and lower the mower deck to the lowest position.

7. Securely fasten machine to trailer with heavy-duty straps, chains or cables. Both front and rear straps must be directed down and outward from machine. Refer to Fig. 8 for suggested tie-down locations.



## STORING SAFELY

### CAUTION

**Never store machine with gasoline in the tank inside a building where fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer, or other gas appliance. Allow engine to cool before storing in an enclosure.**

### CAUTION

**Never run engine indoors or in an enclosed area, unless exhaust gases are safely removed to the outdoors with an exhaust pipe extension/hose combination. Exhaust gases contain carbon monoxide, an odorless and deadly poison**

- If engine is to be unused for 30 days or more, add a fuel stabilizer to the fuel system. Fuel stabilizer (such as STA·BIL®) is an acceptable additive in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach the carburetor.
- Remove all accumulated debris from mower deck and tractor.
- Sand areas where paint is chipped and repaint to prevent rust. Lubricate all locations to prevent moisture damage during storage.

# LUBRICATION AND MAINTENANCE

## CAUTION

Always perform maintenance with the machine parked on a hard level surface; with the engine stopped and the PTO disengaged; with the park brake set; and with the key removed from the ignition.

## CAUTION

Always remove the grounded (-) clamp from the battery when performing maintenance on the engine, clutch, or any other electrical system. Battery is located under the right fender.

## CAUTION

Always wear safety glasses and ear protection when performing any maintenance function that could cause injury to eyes or ears.

Read all safety information on pages 6 through 11.

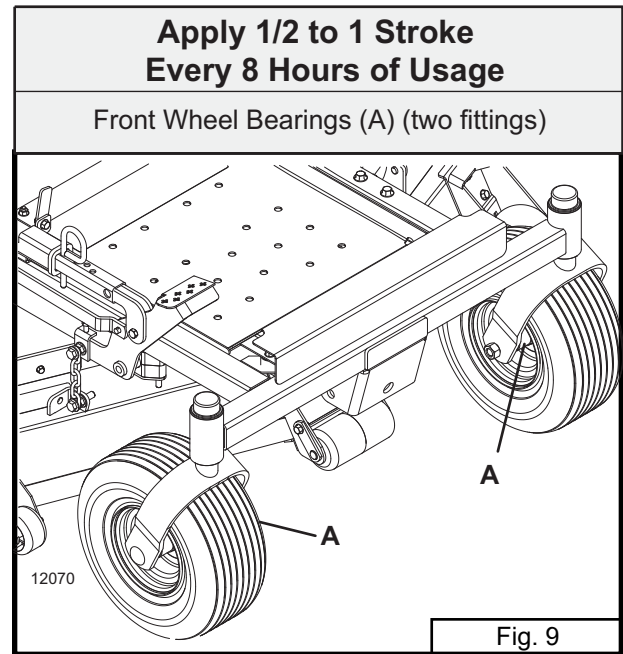
## LUBRICATION

(Refer to Fig. 9)

Do not let excess grease collect on or around parts, particularly when operating in sandy areas. See accompanying illustrations for lubrication frequency points. Severe or unusual conditions may require more frequent lubrication.

In addition to these lubrication points, lightly oil all linkage pivot points.

Use SAE multipurpose type grease for all locations shown. Be sure to clean fitting thoroughly before using grease gun.



## CAPACITIES

Fuel Tank.....	6.5 U.S. gal. (24.6 liter)
Drive System.....	3.0 U.S. qt. (2.88 liter)
(Each Transmission).....	1.5 U.S. qt (1.42 liter)

## TIRE AIR PRESSURE

Drive Tires 20 x 10 x 10.....	8 psi (55kPa)
Drive Tires 20 x 12 x 10.....	8 psi (55kPa)
(Refer to decal on wheel for correct tire air pressure)	
Front Tires 13 x 6.5 x 6.....	12 psi (83 kPa)

## DRIVE SYSTEM

Fluid Change.....	300 hours
Filter Change.....	300 hours

## CRANKCASE OIL AND AIR FILTER

Refer to the "Engine Manual" for the timetable for changing or service.

## COOLING SYSTEM

Inspect the engine cooling fins periodically for buildup of grass and debris. Buildup on the cooling fins will cause the engine to overheat.

Removal of engine cowling may be required to clean the fins, especially if cleaned infrequently.

### CAUTION

**Do not use high-pressure water or steam to clean the engine or drive compartment. Water and cleaning detergent may damage electrical components and terminals, possibly leading to component and safety circuit failure.**

Use a vacuum cleaner or air blower to remove foreign material from the engine and drive compartment.

## BATTERY MAINTENANCE

Battery is located under the right fender. Follow the procedure below for battery maintenance.

- Clean battery.
- Inspect cables for loose connection.
- Clean terminals.
- Inspect battery tray and hold-down.
- Inspect battery case for cracks or leaks.

### WARNING

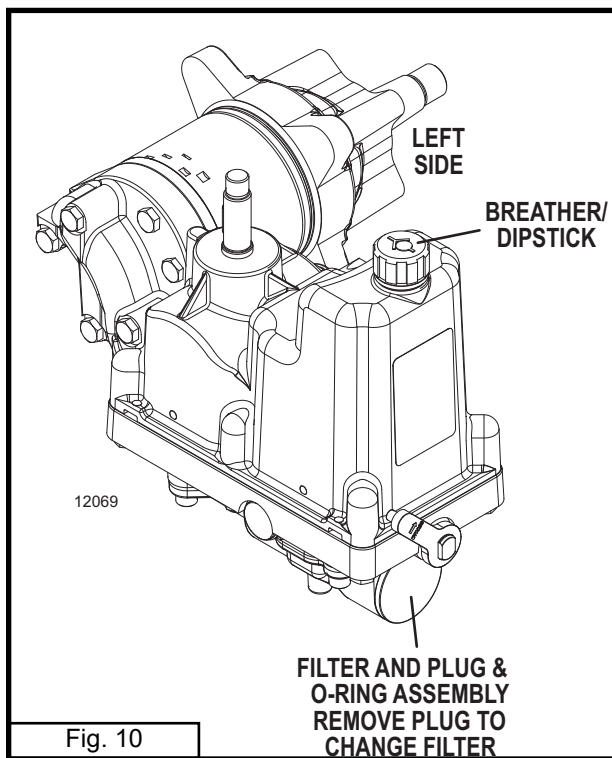
**Batteries contain sulfuric acid. Avoid contact with skin, eyes and clothing. Batteries produce a highly explosive hydrogen gas while being charged. Always keep cigarettes, sparks, open flame and other sources of ignition away from battery. Always shield eyes and face from battery. In the event of accident, flush with water and call a physician immediately. Keep batteries and acid out of the reach of children.**

## CHECKING DRIVE SYSTEM FLUID LEVEL

Check fluid level with the engine turned off and fluid at normal operating temperature. The transmission fluid reservoirs are located at the front of each transmission. To check the fluid level, raise the seat and remove the breather/dipstick from the reservoir. The fluid level should be equal to the "hot" mark on the dipstick (Refer to Fig. 10). If fluid is required, use CoolTemp Hydro-Max™ Extended-Life Hydrostatic Fluid (Grasshopper part no. 345044 for 1 quart [.94 l] container).

## DRIVE SYSTEM FLUID AND FILTER MAINTENANCE

For Drive System, use CoolTemp Hydro-Max™ Extended-Life Hydrostatic Fluid, part no. 345044 for 1 quart (.94 l) container or part no. 345046 for 2 gallon (7.52 l) container. Use part no. 130605 high efficiency oil filter.



## CHANGING DRIVE SYSTEM FLUID

(Refer to Fig. 10)

Raise the seat. Place a drip pan under the transmission reservoir and filter (at the front of the transmission). Remove plug and filter and drain fluid into the pan. Allow transmission to drain completely. Install a new fluid filter. Torque plug to 115-135 in. lbs. Fill reservoir with fluid. Let engine idle a few minutes. Check fluid level and refill if needed. Repeat procedure for other transmission.

### WARNING

**DO NOT** operate machine with low fluid. Low fluid could cause damage to drive system and loss of control of the machine.

## DECK CLEANING

### IMPORTANT

**After each use remove grass buildup from under the mower deck. Excessive grass buildup will interfere with the operation and performance of the mower deck. Excessive grass buildup may also cause component failure.**

1. Park machine on hard level surface, stop engine and set the park brake. Remove key from the ignition switch.
2. Position the mower deck in the transport (all the way up) setting.
3. Lift the front of the machine, and support the machine using jack stands or other equivalent safety blocks. Do NOT rely solely on mechanical or hydraulic jacks or lifts for support. Always use adequate wheel chocks on tires remaining on the ground.
4. Use a long flat bar to clean under the deck, to avoid positioning yourself under the machine.
5. Clean out all grass and debris build-up from the underside of the deck, around blade spindles and the deck discharge chute.

## BLADE INSPECTION

### WARNING

**Do not handle mower blades with bare hands. Use heavy leather gloves or wrap blade with protective material and block securely when removing blades. Careless or improper handling may result in serious injury.**

Inspect blades before each use to determine that they are mounted securely and are in good condition. Replace any blade that is bent, excessively nicked, worn, or has any other damage. Small nicks can be ground out when sharpening.

## BLADE SHARPENING

### IMPORTANT

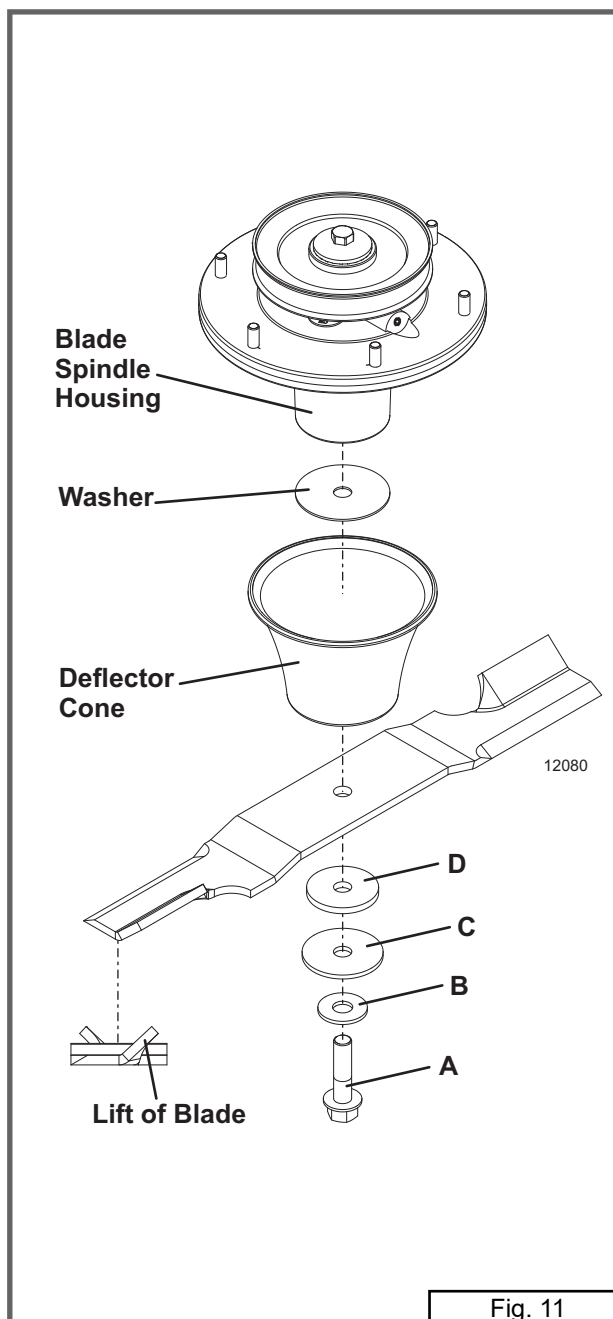
**When sharpening blades, be sure to balance them. Unbalanced blades will cause excessive vibration that can damage blade spindle bearings. Vibrations may also cause structural cracks in mower housings.**

Follow original sharpening pattern. Do not sharpen backside of blade. Do not sharpen blade to a razor edge, but leave approximately .016 inch (.4 mm) blunt edge.

## BLADE REMOVAL

(Refer to Fig. 11)

Remove bolt (A), which has right hand threads. Remove washer (B), flat washer (C), fiber washer (D), and blade.





## BLADE INSTALLATION

### **WARNING**

Your dealer can supply Grasshopper replacement blades. They are made of special steel alloys and subjected to rigid heat-treat and inspection requirements. Substitute blades may not meet these rigid specifications and **MAY BE DANGEROUS**.

Reverse the removal procedure. Be sure fiber washer and cone are installed as shown.

### **IMPORTANT**

When installing a blade, the lift of the blade must be toward blade spindle housing (refer to Fig. 11). Lubricate bolt threads lightly with a copper based anti-seize. Tighten bolt (item A, Fig. 11) into blade spindle housing to 50-55 ft lbs (68-75Nm).

# ADJUSTMENTS AND TROUBLESHOOTING

## CAUTION

Always make adjustments with the machine parked on a hard level surface; with the engine stopped and the PTO disengaged; with the park brake set; and with the key removed from the ignition.

## CAUTION

Always remove the grounded (-) clamp from the battery when performing maintenance on the engine, clutch, or any other electrical system. Battery is located under the right fender.

## LOSS OF POWER IN THE DRIVE SYSTEM

Check the fluid level and make sure the proper amount of fluid is in the reservoir. Make sure all hydraulic connections are tight and not leaking. Make sure drive belt is tight and not slipping. Check park brake adjustment. Make sure pump bypass valve is tight so pump does not freewheel.

## DRIVE BELT REPLACEMENT

(Refer to Fig. 12)

1. Remove the deck belt (A) as described in "Deck Belt Replacement" section (page 36).
2. Remove the clutch center bolt (B) and slide the clutch (C) off the engine's crankshaft.
3. Loosen the .375" idler arm pivot bolt (D) and remove the .312" bolt (E) securing belt tensioner bracket in place. Using a half inch drive break-over bar or racket, inserted in half inch square hole, rotate idler pulley away from belt, relieving belt tension.
4. Remove the belt (F) from pulleys.
5. Install the new belt with the idler tension bracket loose. Using the break-over bar, reinstall the .312" bolt (E) (normally in center hole) in the idler tensioner bracket and secure. Do not over tighten belt, Belt

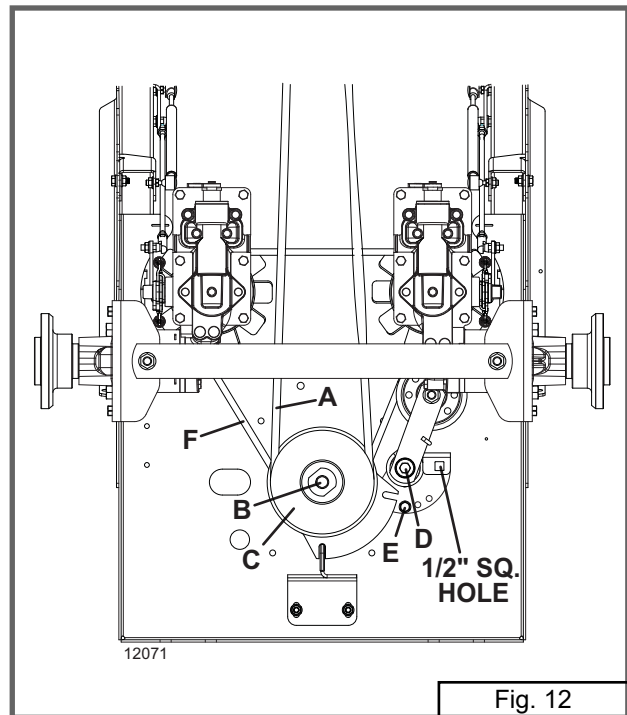


Fig. 12

should only be tight enough to prevent belt from slipping. Retighten .375 idler arm pivot bolt (D).

6. Install the deck belt as described in "Deck Belt Replacement" section (page 36).

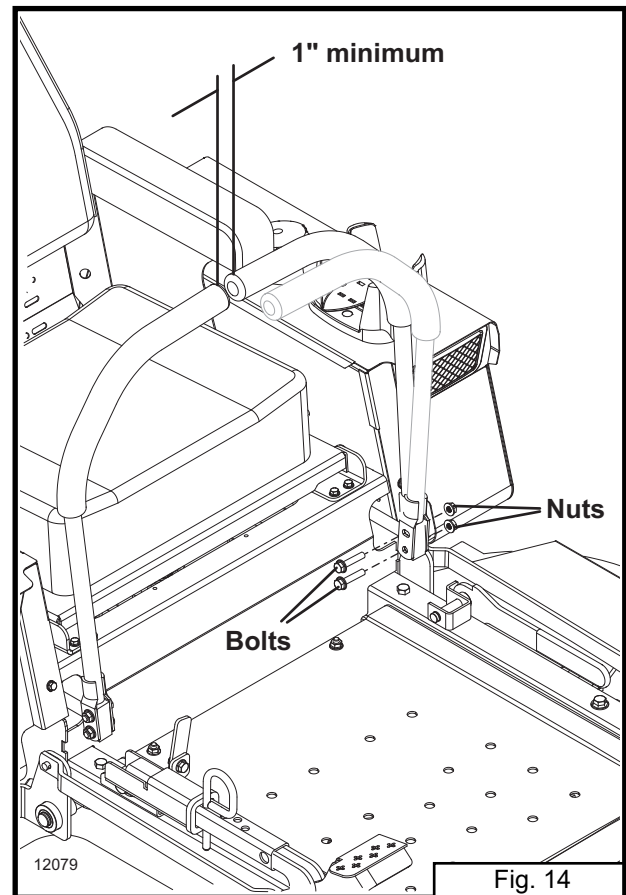
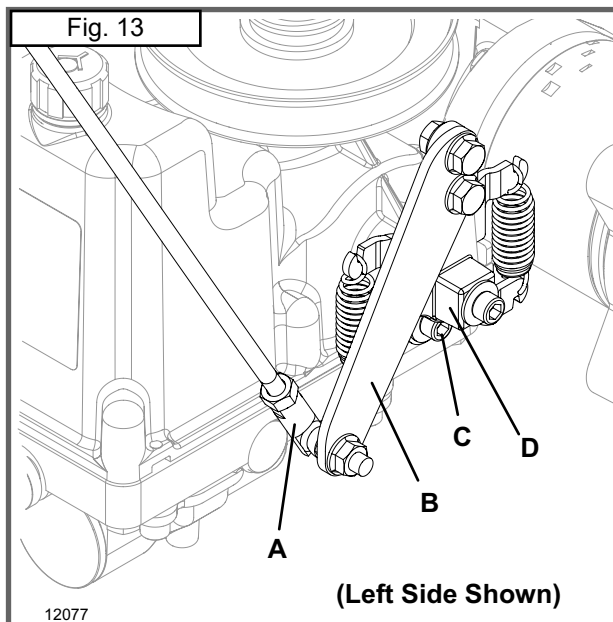
## NO POSITIVE NEUTRAL POSITION

If drive wheels travel forward or backward when the steering lever is in swing-out position (neutral), adjustment is required.

## NEUTRAL ADJUSTMENT

(Refer to Fig 13)

1. Block up under tractor frame so both drive wheels are off the ground.
2. Make sure parking brake is released.
3. Remove linkage rods (A) from transmission neutral return arm (B).
4. Place steering levers in the neutral swing-out position and start engine.
5. If either of the drive wheels turn, proceed with the following adjustment.
6. With a .25" allen wrench loosen the socket head cap screw (C) directly below the control lever (D). Rotate the neutral return assembly left or right until neutral is achieved. Tighten socket head cap screw.
7. Repeat procedure for transmission on the other side.
8. Reinstall linkage rod (A) in neutral return arm (B). If ball joint does not reinstall into neutral return arm without moving the return arm, adjust length of linkage rod until it does to assure neutral adjustment will be maintained when linkage is connected.
9. Test-drive machine for straight-line travel with both levers full forward. If travel is not in a straight line, adjust the steering lever stop on the side that is the fastest, i.e., if machine goes to the left, adjust the right steering stop to slow down the right transmission until travel is straight ahead.



## STEERING LEVER ADJUSTMENT

(Refer to Fig. 14)

Steering levers are secured to the lever mount blocks with mounting bolts and nuts. A .5 inch wrench is required to adjust the levers.

To adjust steering lever position, loosen nut on the top mounting bolt. In the swung in (neutral) position, the lever can now move forwards and backwards without moving the lever mount. If the lever mount moves with the steering lever, the bottom mounting bolt may need to be loosened. Set both levers in line and in a comfortable position for the operator. Move levers to the swung out (neutral lock) position and tighten top nuts and bottom nuts if loosened. Both mounting bolts **MUST** be tight to assure steering lever control of the machine.

Steering levers must line up in the swung in (neutral) position. Maintain one inch minimum clearance between ends of levers. If the

levers are allowed to lean toward the center when the mounting bolts are tightened, free play in the mounting holes may allow the levers to hit each other.

### **WARNING**

**When completing a maintenance function, make sure all shields are in good condition and are installed before placing unit back into use.**

## **ENGINE TROUBLESHOOTING**

Should you experience trouble in starting the engine, use the following guide to locate possible causes.

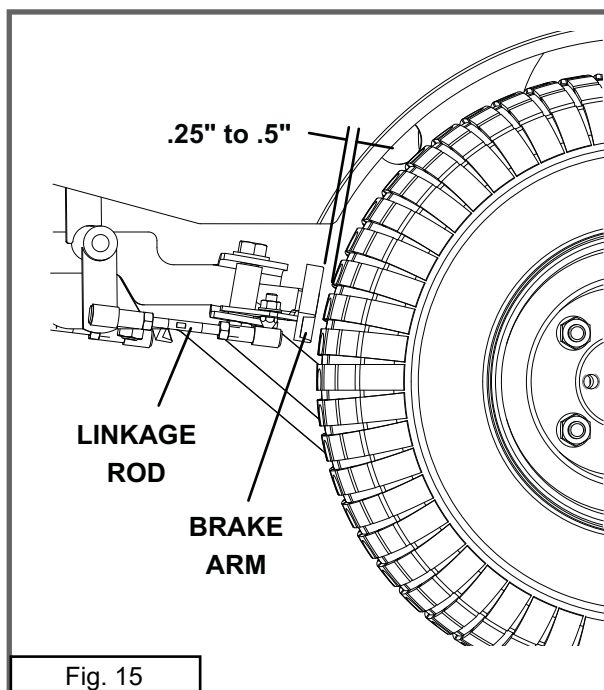
### **Engine will not crank:**

- Battery is discharged.
- Blown starter fuse.
- PTO switch in "ON".
- Steering levers are not out in neutral.
- Steering lever switches are out of adjustment (listen for the switch "click").
- A loose wire or connection.

### **Engine cranks, but will not start:**

- Fuel tank is empty.
- Restricted fuel line or fuel filter.
- A loose wire or connection.

If the above points do not locate the problem, contact your authorized Grasshopper dealer for repair.



## **PARK BRAKE ADJUSTMENT IMPORTANT**

**The performance of this parking brake depends on the tire used. Tire size, tread pattern, and tire pressure are important. Use only Factory supplied tires and wheels. Make sure tires are inflated to the proper pressure.**

1. Stop engine, wait for all moving parts to stop, and remove key.
2. Disengage the park brake.
3. Adjust the linkage rod attached to the left brake until the clearance between the brake arm and the tire tread measures .25 inch to .5 inch with the park brake disengaged (see Fig. 15).
4. Repeat step 3 for the right side.
5. Engage and disengage park brake to check for proper engagement and disengagement. Readjust if necessary.
6. Be sure all cotter pins and jam nuts are secured.
7. Make sure the brake light is on when the park brake is set. If the brake lever does not contact the safety switch, adjust the switch in the mounting slots so it does.

## CLUTCH/BRAKE BURNISHING

### IMPORTANT

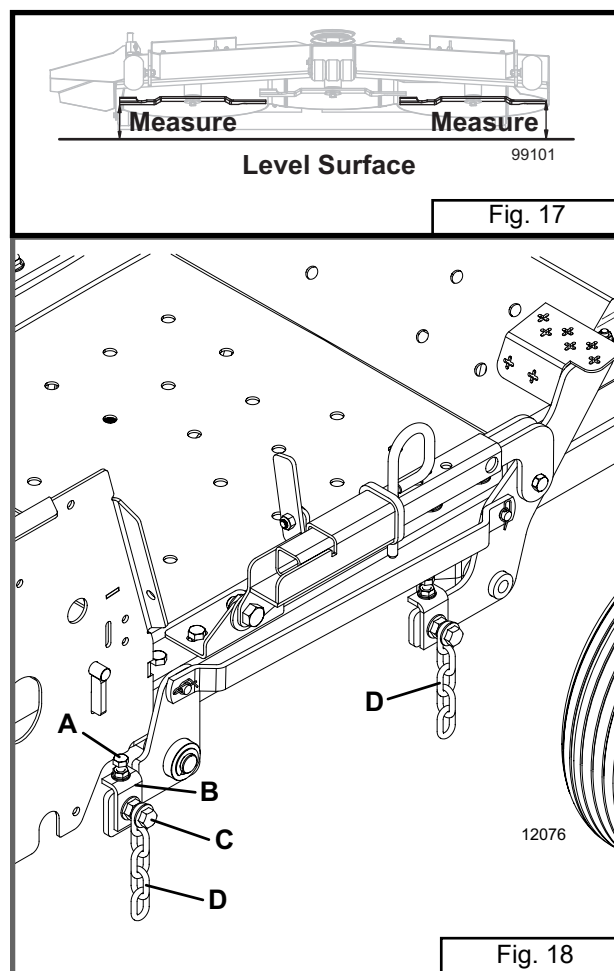
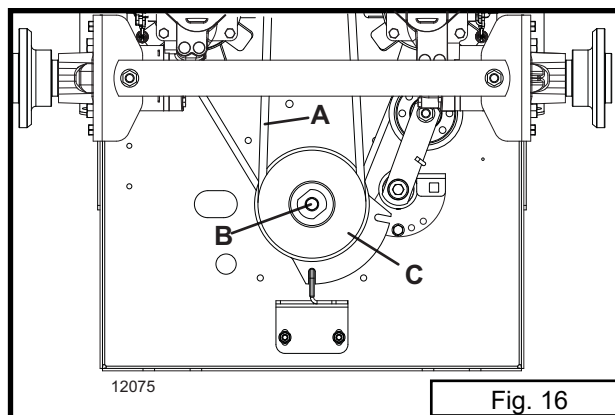
A new clutch, or one that has not been used for three months, will require burnishing to dress drive surfaces. The clutch could fail if you do not accomplish the following procedure.

Place tractor in neutral, start engine and run at half throttle. Turn clutch switch on 30 seconds and off 30 seconds, five times at half-throttle and repeat five times at full throttle. The time interval allows the clutch surface to cool.

## CLUTCH REMOVAL/REPLACEMENT

(Refer to Fig. 16)

1. Remove the deck belt (A) as described in "Deck Belt Replacement" section.
2. Remove the center bolt (B) and slide the clutch (C) off the engine crankshaft.
3. To install clutch, reverse order and install deck belt as described in "Deck Belt Replacement" section.
4. Tighten center bolt (B) to 50 ft lbs. After 15 minutes of clutch usage retighten the bolt to 50 ft lbs.



## MOWER DECK LEVELING ADJUSTMENT

(Refer to Fig. 17 & 18)

**NOTE:** The object is to have the mower blades cutting level side to side and cutting slightly lower in the front, with about the same weight on each mower deck hanger chain.



### CAUTION

Mower blades are sharp. Wear heavy gloves or cover sharp edges of blades.

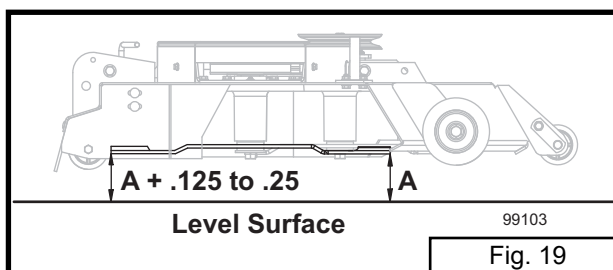
1. Check air pressure on all four tires and adjust to the correct pressure if necessary.
2. Mower deck can be leveled at any cut height position. If blade heights do not match cut height setting, do not adjust at this time. Mower deck must be leveled

side to side and front to rear before cut height setting is adjusted. See appropriate sections below.

3. Position left blade in the side to side position and measure from the outside blade tip to the level surface (refer to Fig. 17).
4. Position right blade in the side to side position and measure from the outside blade tip to the level surface.
5. If the difference between both measurements is greater than .125 inch, adjustment is necessary.
6. Locate the level adjust screw (A) on the right rear mower deck hanger (refer to Fig. 18).
7. Slightly loosen the .438 chain bolt (C) on the right rear mower deck hanger and level adjust bracket (B).
8. Adjust the right rear of the mower deck up or down as required to match the left rear by turning the level adjust screw (A) clockwise to raise and counter-clockwise to lower.
9. Adjust the level adjust screw (A) until blades on both sides are the same height above the level surface.
10. With blades leveled side to side, tighten the .438 chain bolt (C) securely.
11. Position left blade in the front to rear position. Measure from the left front blade tip to the level surface. With the blade in the same position, measure from the left rear blade tip to the level surface.
12. The distance measured at the rear blade tip should be .125 to .25 inch higher than at the front blade tip (Refer to Fig. 19).
13. If the front to rear adjustment is not within the given tolerance, then either adjustment is necessary or the left blade may be bent.
14. Check to see if the left blade is bent by turning it 180° and measure from the left rear blade tip to level surface again. If the result is different by more than .125 inch, the left blade is bent and should be replaced.
15. If the blade is straight and adjustment is necessary, locate the level adjust screw

on the left front mower deck hanger.

16. Slightly loosen the .438 chain bolt on the left front mower deck hanger and level adjust bracket.
17. Adjust the left front of the mower deck up or down by turning the level adjust screw clockwise to raise and counter-clockwise to lower until the front blade tip is .125 to .25 inch higher than the rear blade tip.
18. Tighten the .438 chain bolt securely.
19. Repeat steps 11 through 18 above on the right side.
20. Check that each of the mower deck hanger chains (D) are tight and are carrying weight. If a chain is loose, adjust as necessary.





## MOWER DECK CUT HEIGHT SETTING ADJUSTMENT

**NOTE: Adjust side to side and front to rear mower level before adjusting cut height.**

1. Check air pressure on all four tires and adjust to the correct pressure if necessary.
2. With foot pedal, set the cut height at the notch marked 3.
3. Position left blade in the side to side position and measure from the outside blade tip to the level surface (refer to Fig. 19).
4. Position right blade in the side to side position and measure from the outside blade tip to the level surface.
5. If the difference between both measurements is greater than .125 inch, side to side adjustment is necessary (see previous section).
6. If both measurements are between 2.875 inches and 3.125 inches, adjustment is not necessary.
7. If both measurements are less than 2.875 inches or greater than 3.125 inch, adjustment is necessary.
8. To adjust the cut height, place blocks under both sides of the deck so there is slack in the hanger chains. The actual cut height is .5" above the sides of the deck.
9. Loosen the 2 bolts that secure the cut height indicator. (Refer to page 20, Fig 5)
10. If the deck cut height needs raised, slide the cut height indicator forward.
11. If the deck cut height needs lowered, slide the cut height indicator back.
12. With blade cut height correct, securely tighten the bolts.
13. Make sure foot pedal still engages in upper most position.

## DECK BELT ADJUSTMENT

(Refer to Fig. 20)

The belt tension is set at the factory, but may need adjustment after the first hour of initial use. Periodically belt should be checked for proper tension, following the procedure below:

1. Position the mower deck in the highest (4 inch) cut height setting.
2. Loosen the lock nut (A) and adjust the draw nut (C) to change belt tension.
3. Increase belt tension by turning the draw nut (C) clockwise and decrease belt tension by turning the draw nut counter-clockwise.
4. The idler spring (B) body length should measure approximately 5.75" for proper belt tension.
5. Tighten the lock nut (A) when the proper belt tension is achieved.

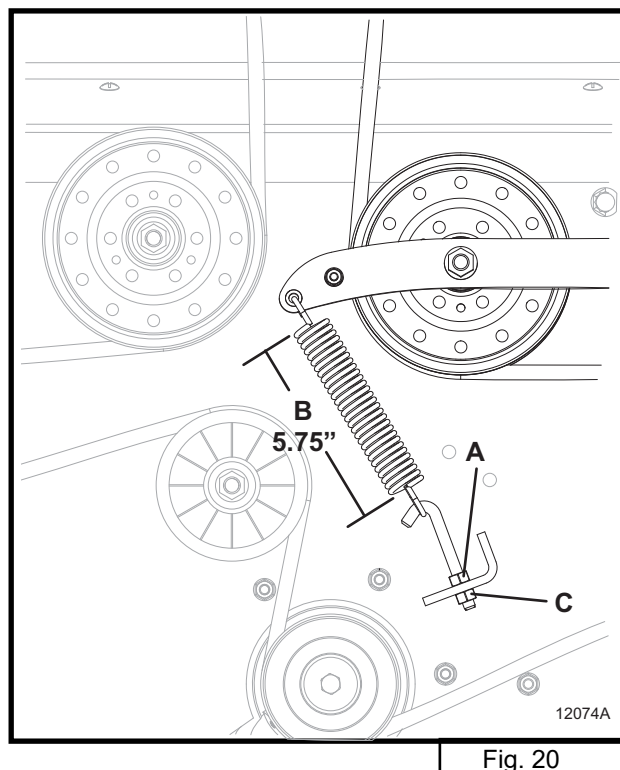


Fig. 20

## DECK BELT REPLACEMENT

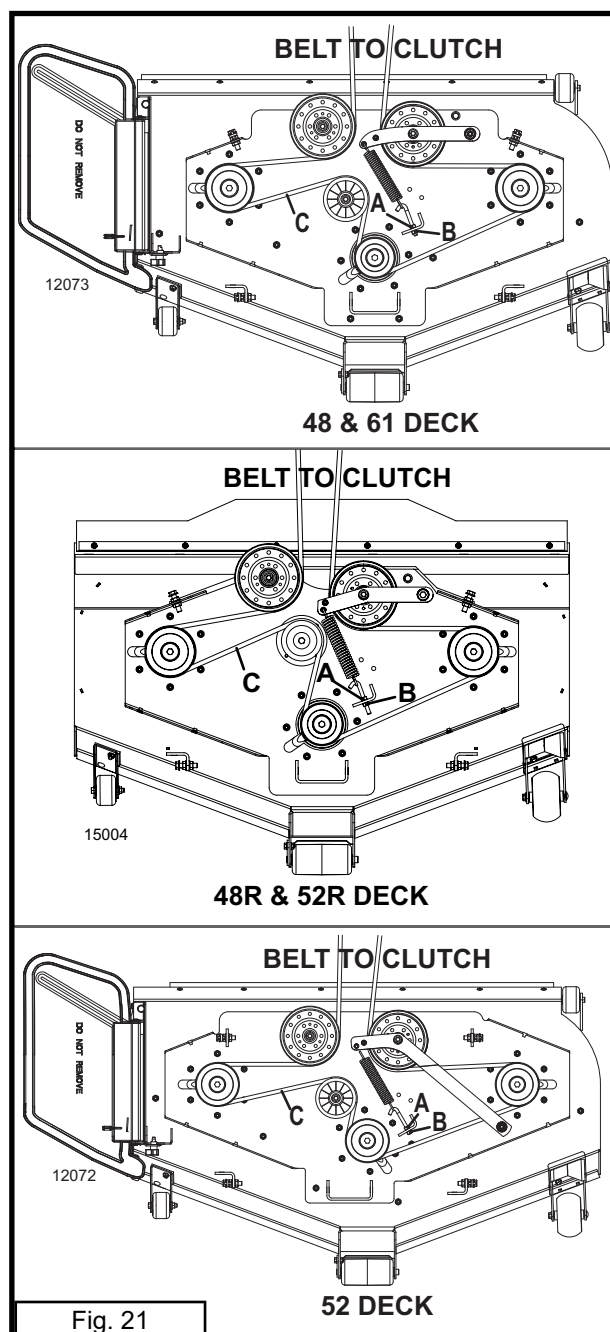
(Refer to Fig. 21)

Major causes of belt failure are improper installation and tension. Before installing a new belt, check spindle shafts and bearings for excessive endplay and wear by moving each spindle shaft side to side and up and down. Be sure they turn smoothly and freely.

**Make sure idler is still aligned with spindle sheaves.** Check sheave grooves for cleanliness and wear. If grooves require cleaning, use a cloth moistened with a nonflammable nontoxic degreasing agent or commercial detergent and water.

Avoid excessive force during installation. Do not use tools to pry belt on or roll belt over sheaves. This can cause hidden damage and premature belt failure.

1. Position the mower deck in the lowest (1.5 inch) cut height setting and remove the left and right belt shields.
2. Loosen the lock nut (A) and back off (counterclockwise) the draw nut (B) until tension is released from the old belt (C) and it can be lifted off the deck sheaves.
3. Install the new belt following Fig. 21 for proper belt routing.
4. Reset the belt tension using the procedure in the “Deck Belt Adjustment” section.
5. Re-install the left and right belt shields.



## BLADE SPINDLE ASSEMBLY REMOVAL

(Refer to Fig. 22)

1. It is not necessary to raise machine to remove the blade spindle assembly.
2. Raise the mower deck to the highest position.
3. Remove blade. Be careful handling sharp blades. Use protective material and block securely when removing blades.
4. Lower mower deck to the lowest (1.5 inch) cut height.

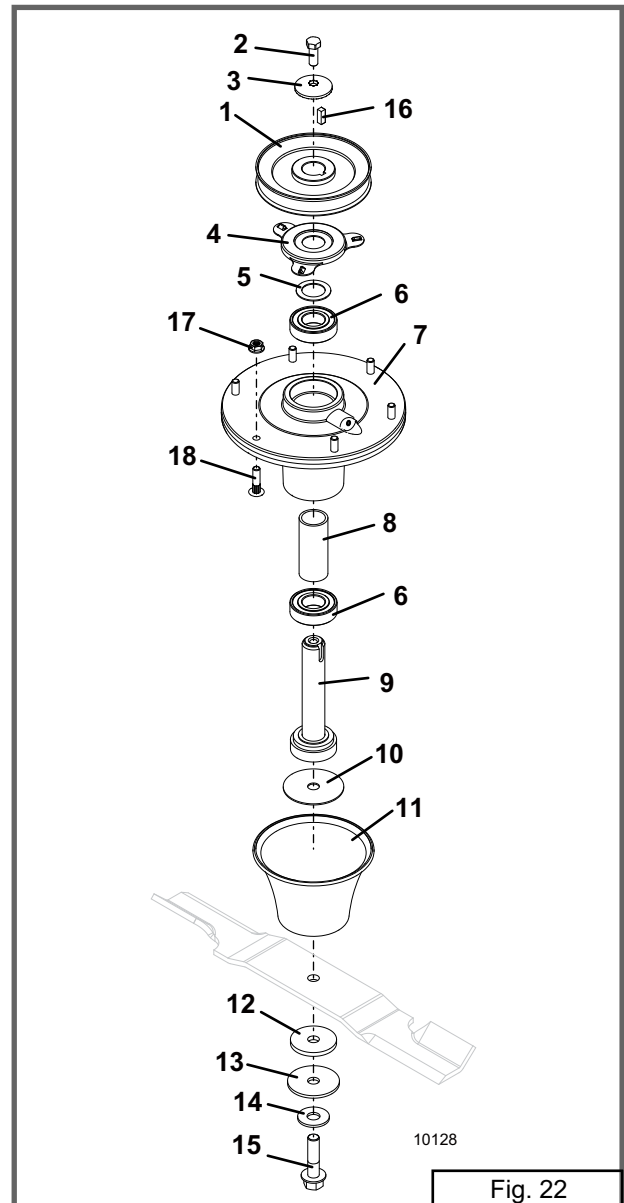


5. Remove belt shields.
6. Remove deck belt. See Deck Belt Replacement section above.
7. Remove the top bolt (2) and cup washer (3) from the spindle sheave (1).
8. Mark spindle sheave (1) on the topside so it will not be installed upside down on re-assembly.
9. Remove the spindle sheave (1) with a wheel puller. Make note if you remove any spacers or washers not shown in the illustration, as they will need to be reinstalled as they were removed. Spindle shaft (9) may fall out of the spindle assembly to the ground after removing sheave.
10. Remove square key (16) and bearing shield (4) and save for re-assembly.
11. Remove spindle assembly by removing the six bolts or nuts (17 or 18) that attach the spindle housing (7) to the mower deck. Spindle assembly will fall to the ground if not supported. Protect spindle housing as necessary.

## BLADE SPINDLE ASSEMBLY REPAIR/REPLACEMENT

(Refer to Fig. 22)

1. Remove blade spindle assembly as described previously.
2. Press spindle shaft (9) down through bearings (6) and spindle housing (7).
3. Press bearings (6) out of housing (7) or remove from shaft (9) as necessary.
4. Visually inspect parts for excessive wear, corrosion, or damage. Feel parts and rotate bearing races to check for rough spots or excessive wear.
5. Replace with new parts as necessary.
6. Install lower bearing (6) on spindle shaft (9).
7. Install bearing spacer (8) on shaft.
8. Install this assembly into housing (7).
9. Press top bearing (6) onto shaft (9) down against bearing spacer (8).
10. Rotate assembly to make sure shaft moves freely.
11. Secure spindle assembly to the mower



- deck with the six nuts or bolts (17 or 18). Torque to 21 ft lbs.
12. Install bearing shield (4), square key (16), sheave (1), cup washer (3) and bolt (2) in same sequence as removed. Place a block under the spindle shaft (9) if necessary to hold it up in the spindle housing.
13. Make sure the concave side of the cup washer (3) is down toward the sheave and torque top bolt (2) to 38 ft lbs.
14. Rotate assembly to check for free movement.
15. Install deck belt and belt shields.
16. Install blade and tighten bolt (15) to 50-55 ft lbs.

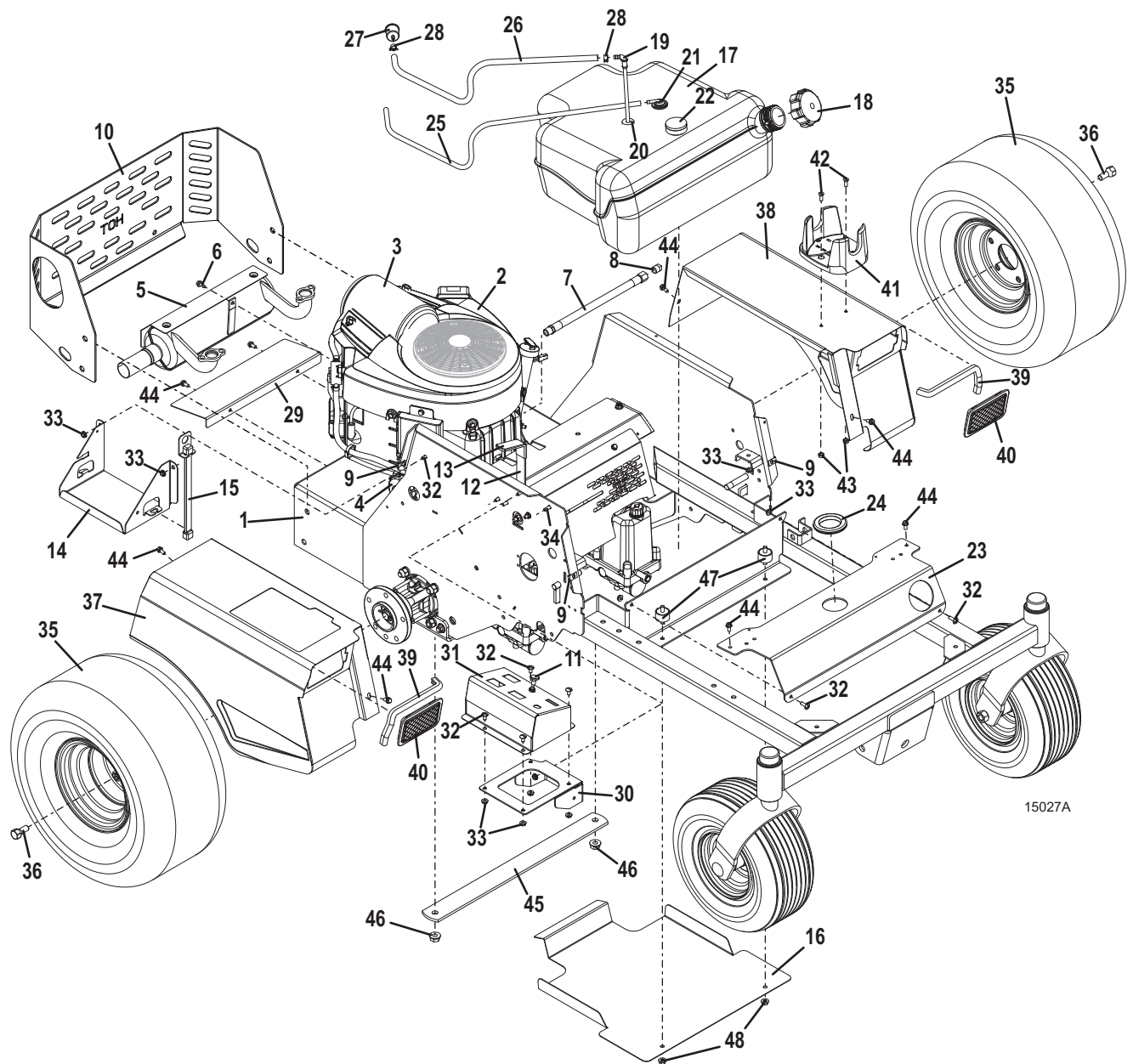
# TRACTOR ASSEMBLY - 124V/48 & 126V/52

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645379	Frame – 100V/48	24	424294	Grommet
	645380	Frame – 100V/52 (shown)	25	821746	Fuel Hose .187 ID x 41"
2	100151	Engine – 24 HP Briggs	26	821769	Fuel Hose .25 ID x 27"
	100153	Engine – 26 HP Briggs	27	366560	Fuel Filter
3	100919	Air Filter - Cyclonic	28	280260	Hose Clamp – Spring .25
4	100803	Oil Filter	29	751043	Shield - Heat
5	101197	Muffler	30	644410	Bracket - Console
	101043	Gasket - Muffler	31	645102	Console
6	243016	Tap Screw .25 x .625	32	253178	Whiz Bolt .25-20 x .75 Phil. Truss
7	424319	Hose Assembly - Drain	33	253025	Whiz Nut .25-20
8	365515	Plug .375	34	253177	Whiz Bolt .25-20 x .75 Truss
9	254431	Speed Nut .25-20	35	483924	Wheel & Tire 20 x 10 x 10
10	729745	Shield – Rear Guard		483420	Wheel Without Tire 10 x 8.5
11	142250	Mechanical Choke		482474	Tire 20 x 10 x 10
12	603854	Throttle Assembly	36	248565	Lug Bolt .5-20 x .875
	323643	Cable Assembly	37	693232	Fender – Rt. w/Decals
	722736	Throttle Stop – Heavy Duty	38	693233	Fender – Lt. w/Decals
13	422150	Handle Grip	39	822631	Trim – Fender Edge
14	723062	Mount - Battery	40	422079	Hole Plug – Work Lamp
15	604785	Hold Down Strap - 15"	41	150225	Cup Holder
16	722930	Gas Tank Mount - Shield	42	259030	Cap Screw .25-20 x .75 Hex
17	605805	Fuel Tank Assembly (includes items 18-22)	43	254436	Nut .25-20 Nylon
18	100212	Cap – Fuel Sealed Tether	44	253173	Whiz Bolt .25-20 x .5 Hex
19	363919	Fuel Tube	45	782898	Strap - Tension
20	101875	Bushing – Fuel Tube	46	253067	Flange Nut .5-13 Spirol Loc
21	606830	Fuel Tank Valve Kit		243565	Bolt .5-13 x 1.25
22	141139	Gauge - Intake Fuel	47	424074	Vibration Isolator
	424276	Grommet - Fuel Gauge Mount	48	253035	Whiz Nut .312-18
23	729723	Panel - Front Bolt On			

Item not pictured:

605364 Decal Set - 124V Mower  
605365 Decal Set - 126V Mower

# TRACTOR ASSEMBLY - 124V/48 & 126V/52



15027A

# TRACTOR ASSEMBLY - 126V/61

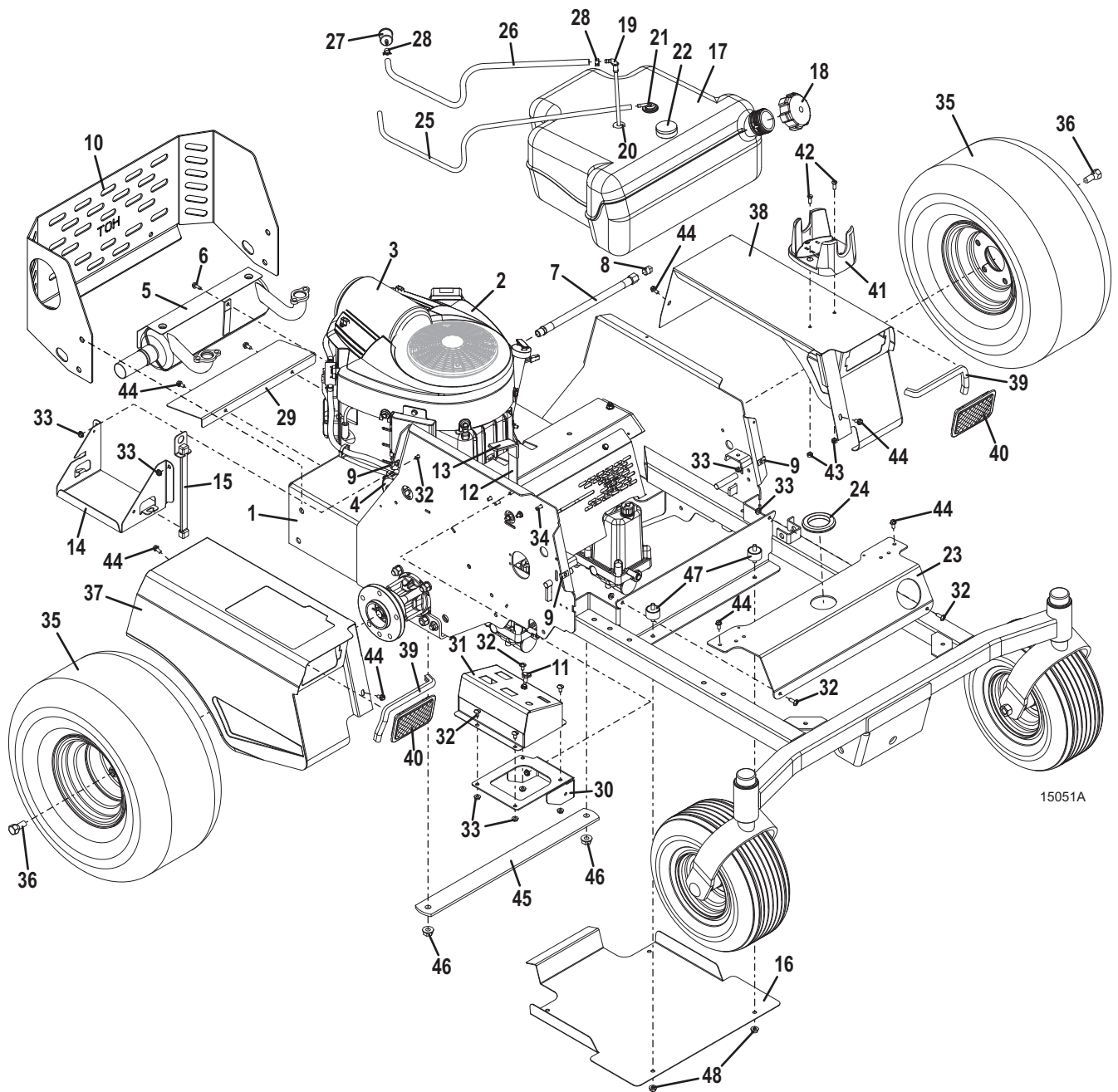
Item No.	Order No.	Description	Item No.	Order No.	Description
1	645381	Frame – 100V/61	24	424294	Grommet
2	100153	Engine – 26 HP Briggs	25	821746	Fuel Hose .187 ID x 41"
3	100919	Air Filter - Cyclonic	26	821769	Fuel Hose .25 ID x 27"
4	100803	Oil Filter	27	366560	Fuel Filter
5	101197	Muffler	28	280260	Hose Clamp – Spring .25
	101043	Gasket - Muffler	29	751043	Shield - Heat
6	243016	Tap Screw .25 x .625	30	644410	Bracket - Console
7	424319	Hose Assembly - Drain	31	645102	Console
8	365515	Plug .375	32	253178	Whiz Bolt .25-20 x .75 Phil. Truss
9	254431	Speed Nut .25-20	33	253025	Whiz Nut .25-20
10	729745	Shield – Rear Guard	34	253177	Whiz Bolt .25-20 x .75 Truss
11	142250	Mechanical Choke	35	483925	Wheel & Tire 20 x 12 x 10
12	603854	Throttle Assembly		483420	Wheel Without Tire 10 x 8.5
	323643	Cable Assembly		482468	Tire 20 x 12 x 10
	722736	Throttle Stop – Heavy Duty	36	248565	Lug Bolt .5-20 x .875
13	422150	Handle Grip	37	693232	Fender – Rt. w/Decals
14	723062	Mount - Battery	38	693233	Fender – Lt. w/Decals
15	604785	Hold Down Strap - 15"	39	822631	Trim – Fender Edge
16	722930	Gas Tank Mount - Shield	40	422079	Hole Plug – Work Lamp
17	605805	Fuel Tank Assembly (includes items 18-22)	41	150225	Cup Holder
18	100212	Cap – Fuel Sealed Tether	42	259030	Cap Screw .25-20 x .75 Hex
19	363919	Fuel Tube	43	254436	Nut .25-20 Nylon
20	101875	Bushing – Fuel Tube	44	253173	Whiz Bolt .25-20 x .5 Hex
21	606830	Fuel Tank Valve Kit	45	782898	Strap – Tension
22	141139	Gauge – Intake Fuel	46	253067	Flange Nut .5-13 Spirol Loc
	424276	Grommet – Fuel Gauge Mount		243565	Bolt .5-13 x 1.25
23	729723	Panel – Front Bolt On	47	424074	Vibration Isolator
			48	253035	Whiz Nut .312-18

Item not pictured:

605365

Decal Set - 126V Mower

# TRACTOR ASSEMBLY - 126V/61

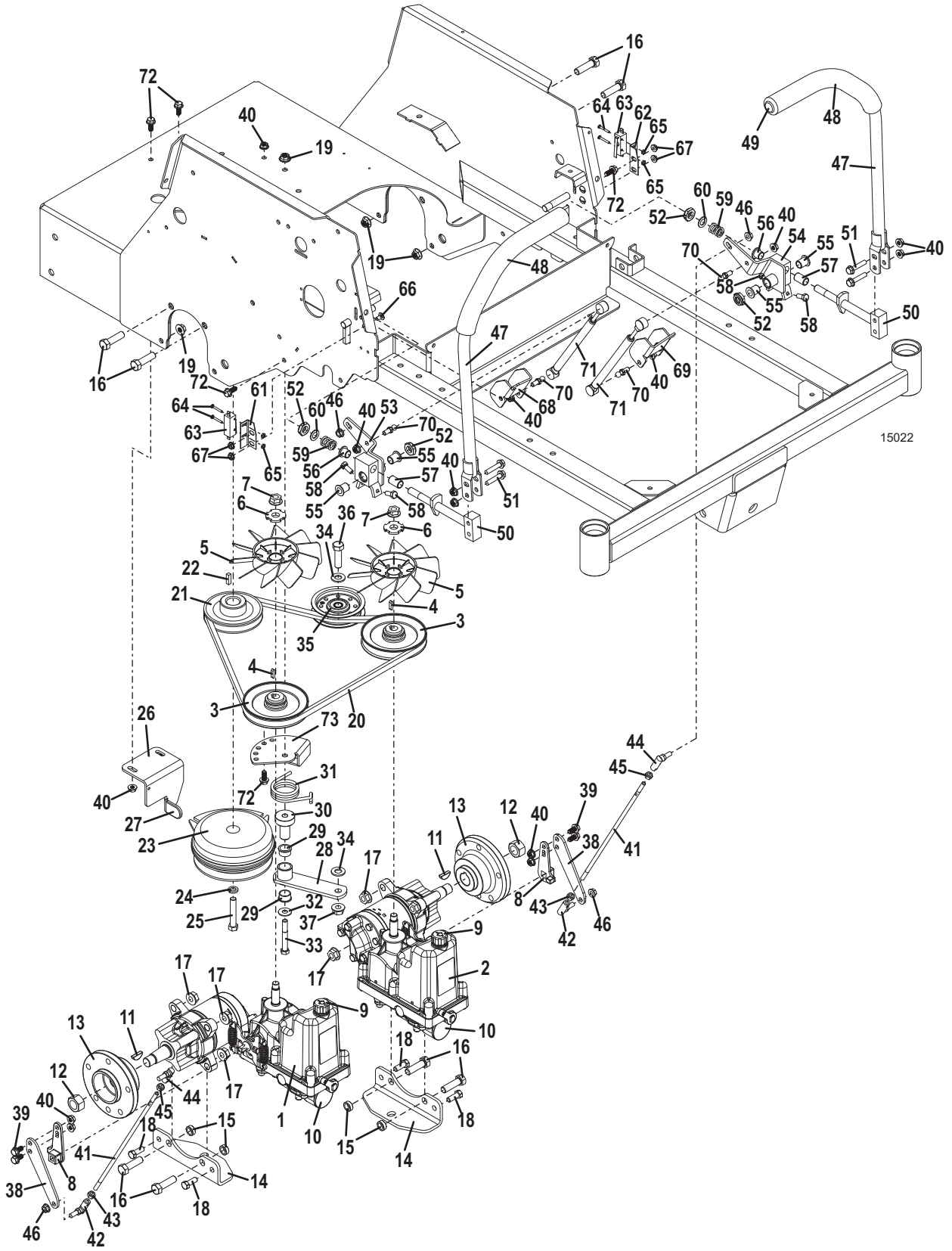


15051A

# DRIVE & STEERING ASSEMBLY

Item No.	Order No.	Description	Item No.	Order No.	Description
1	391491	Integrated Transmission Rt. (includes items 3-12)	35	393195	Idler Pulley
2	391490	Integrated Transmission Lt. (includes items 3-12)	36	243575	Bolt .5-13 x 1.75
3	130630	Pulley 5"	37	253066	Whiz Nut .5-13
4	281668	Square Key 5mm x 20mm	38	776158	Arm – Neutral Return
5	130431	Fan 7"	39	253191	Whiz Bolt .312-18 x .625
6	130632	Fan Spacer	40	253035	Whiz Nut .312-18
7	253070	Whiz Nut .5-20	41	780175	Rod – Steering Linkage 14"
8	130618	Control Lever	42	265615	Ball Joint .312-24 RH Thread
	130619	Spring - Return	43	254441	Nut .312-24 RH Thread
9	130610	Breather/Dipstick	44	265616	Ball Joint .312-24 LH Thread
10	130605	Filter	45	254444	Nut .312-24 LH Thread
	130606	Filter Plug	46	253038	Whiz Nut .312-24
11	281845	Woodruff Key #15	47	605741	Steering Lever Assembly (includes items 48 & 49)
12	253992	Lock Nut .75-16	48	422179	Lever Grip - Foam
13	824458	Hub - Tapered (used on 124V/48 & 126V/52)	49	422095	Vinyl Cap
	824459	Hub - Tapered (used on 126V/61)	50	643926	Mount – Steering Lever
14	776156	Bracket – Tension Strap	51	253195	Whiz Bolt .312-18 x 1.5
15	902293	Spacer - Integrated	52	253470	Nut .5-13 Nylon Insert
16	243575	Bolt .5-13 x 1.75	53	604856	Steering Pivot Assembly Rt. (includes items 55-58)
17	253067	Flange Nut .5-13 Spiral Loc	54	604857	Steering Pivot Assembly Lt. (includes items 55-58)
18	253203	Whiz Bolt .375-16 x 1	55	422559	Bearing Sleeve w/Flange .5 x .875
19	253043	Whiz Nut .375-16	56	422556	Bearing Sleeve w/Flange .5 x .565
20	381942	Belt	57	422557	Bearing Sleeve .5 x 1
21	415545	Sheave 4.5"	58	243197	Bolt .312-18 x .75
22	281582	Square Key .25 x .875	59	283324	Spring – Compression
23	388750	Clutch 1"	60	257063	Nylon Washer
24	257422	Lock Washer .437	61	720160	Mount – Steering Switch Rt.
25	243470	Bolt .437-20 x 2.5	62	720161	Mount – Steering Switch Lt.
26	725123	Bracket – Anti Rotation	63	183860	Safety Switch
27	422088	Cover – Clutch Bracket	64	250318	Machine Screw 6-32 x 1
28	824478	Idler Arm Assembly (includes items 29 & 30)	65	254400	Nut 6-32
29	121756	Oilite Bearing	66	253176	Whiz Bolt .25-20 x .5
30	121650	Bearing Pedestal	67	253025	Whiz Nut .25-20
31	284428	Spring – Torsion LH	68	729730	Bracket – Damper Mount Rt.
32	257040	Washer .375	69	729731	Bracket – Damper Mount Lt.
33	243360	Bolt .375-16 x 2.75	70	265680	Ball Stud
34	257062	Washer .5 SAE	71	285032	Damper
			72	253192	Whiz Bolt .312-18 x .75
			73	729733	Bracket - Belt Tensioner

# DRIVE & STEERING ASSEMBLY

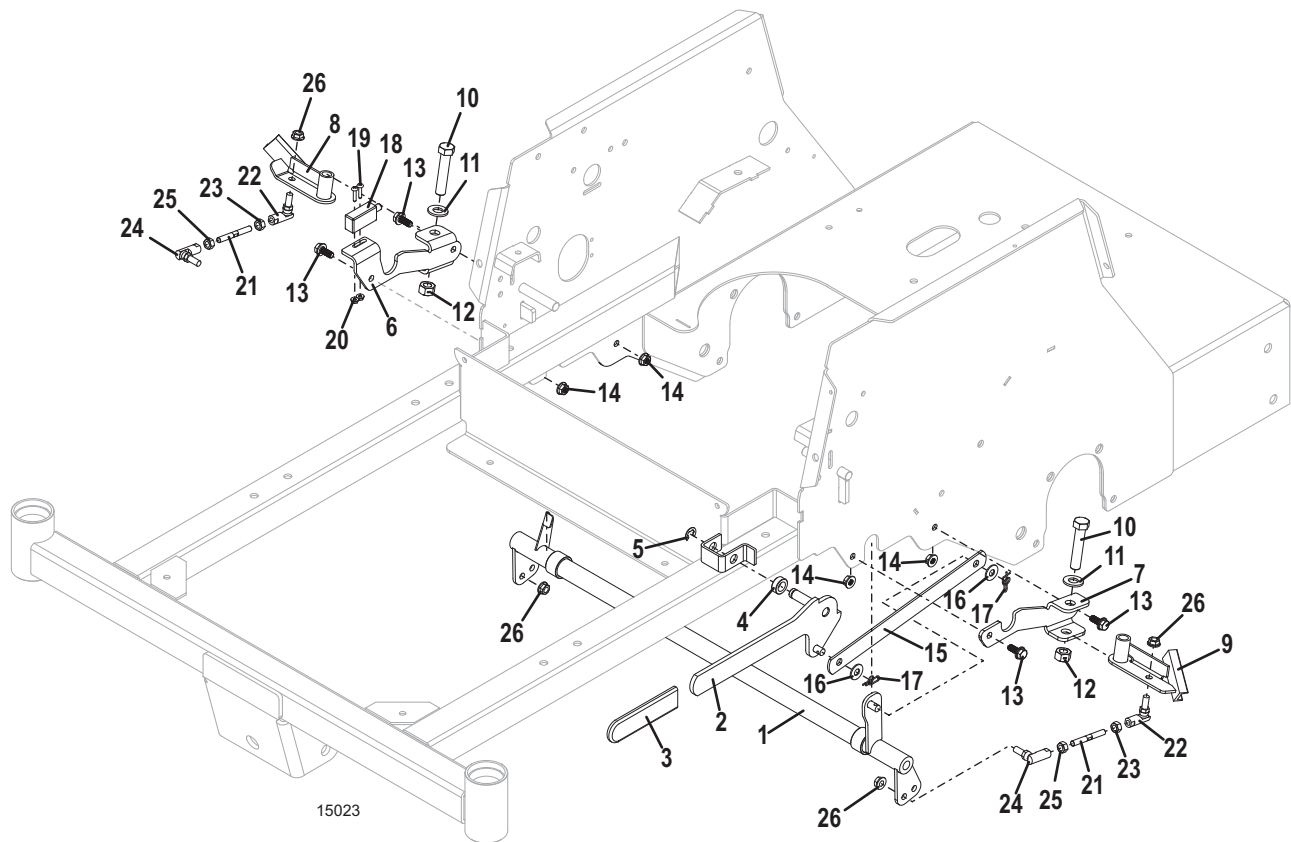


# BRAKES & LINKAGE ASSEMBLY

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645104	Brake Tube	15	782331	Strap – Brake Linkage
2	645103	Brake Lever	16	257030	Washer .312
3	422155	Handle Grip	17	260608	Ring Cotter .054 x .375
4	902314	Spacer .325	18	183894	Switch - Brake
5	263500	Retainer - External	19	250258	Machine Screw 10-24 x .75
6	776212	Bracket – Brake Support Rt.	20	253020	Whiz Nut 10.24
7	776213	Bracket – Brake Support Lt.	21	780179	Rod – Brake Linkage
8	644398	Brake Arm Rt.	22	265615	Ball Joint .312-24 RH Thread
9	644399	Brake Arm Lt.	23	254441	Nut 312-24 RH Thread
10	243590	Bolt .5-13 x 2.5 Full Thread	24	265616	Ball Joint .312-24 LH Thread
11	257062	Washer .5 SAE	25	254444	Nut 312-24 LH Thread
12	253930	Lock Nut .5-13	26	253038	Whiz Nut .312-24
13	253192	Whiz Bolt .312-18 x .75			
14	253035	Whiz Nut .312-18			



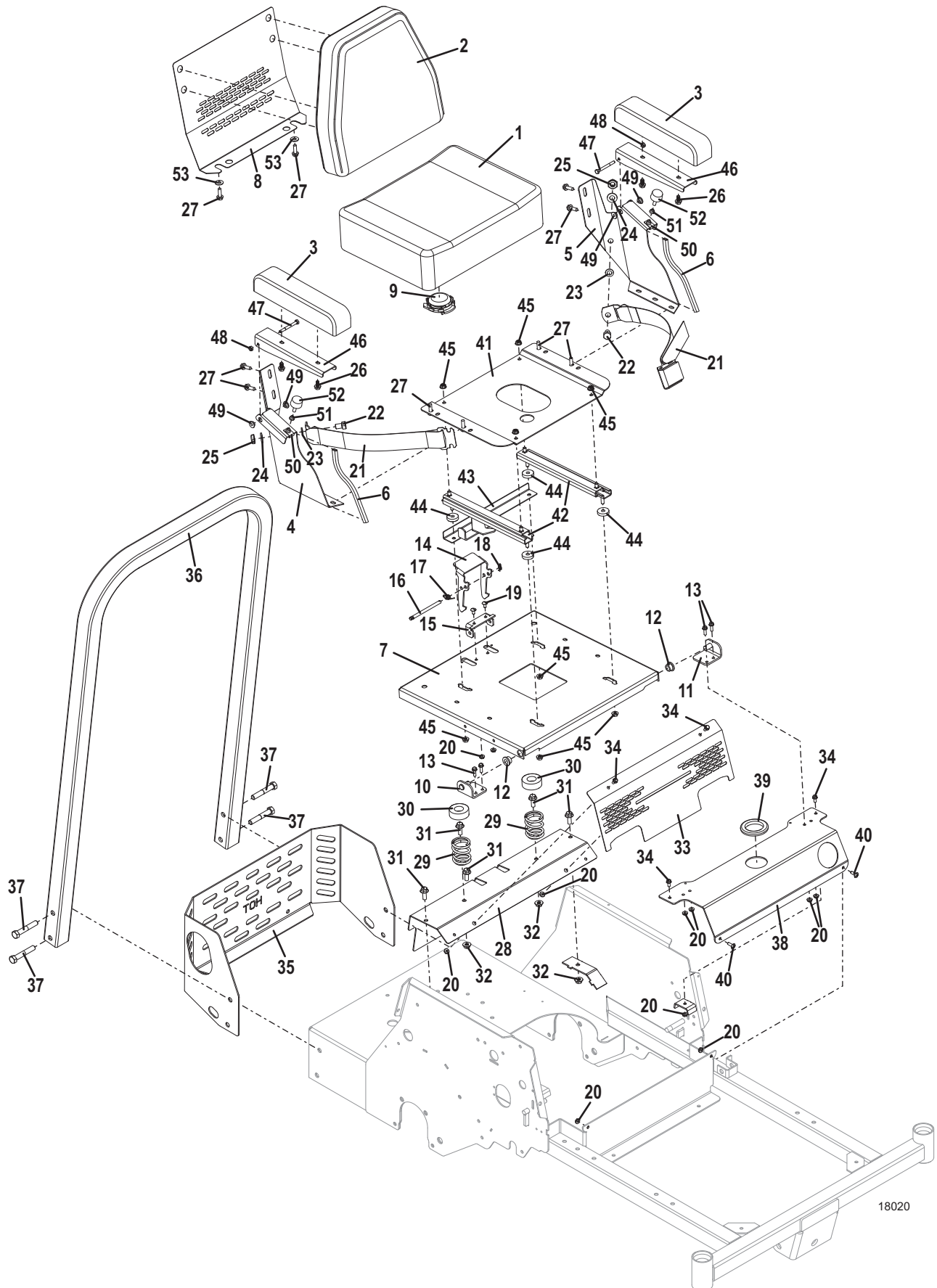
# BRAKES & LINKAGE ASSEMBLY



# SEAT ASSEMBLY & OPS TUBE

Item No.	Order No.	Description	Item No.	Order No.	Description
1	321529	Seat Cushion	29	283516	Seat Spring – Compression
2	321530	Back Cushion w/Logo	30	422127	Cap – Seat Spring
3	321523	Arm Rest	31	253203	Whiz Bolt .375-16 x 1
4	723433	Seat Side Raised – Rt.	32	253043	Whiz Nut .375-16
5	723434	Seat Side Raised – Lt.	33	751042	Shield – Fan
6	822630	Seat Edge Trim	34	253173	Whiz Bolt .25-20 x .5 Hex
7	643898	Seat Panel	35	729745	Shield – Rear Guard
8	722884	Seat Reinforcement – Raised	36	324111	OPS Tube
	163295	Decal – Grasshopper Emblem		165092	Decal – Warning OPS
9	183871	Seat Switch – Twist	37	243600	Bolt .5-13 x 3
10	644401	Bracket – Seat Pivot Rt.		253930	Lock Nut .5-13
11	644402	Bracket – Seat Pivot Lt.	38	729723	Panel – Front Bolt On
12	422565	Sleeve Bearing w/Flange	39	424294	Grommet 2 x 2.25 x .125
13	253175	Whiz Bolt .25-20 x .75	40	253178	Whiz Bolt .25-20 x .75 Phil. Truss
14	724930	Latch – Seat	41	754231	Plate – Seat
15	724929	Mount Bracket – Seat Latch	42	303610	Track Set – Seat
16	730229	Pivot Pin – Seat Latch	43	723075	Slide Stop
17	284408	Spring – Torsion	44	902294	Spacer
18	260606	Ring Cotter .047 x .312	45	253035	Whiz Nut .312-18
19	253176	Whiz Bolt .25-20 x .5	46	754288	Arm Rest – Folding
20	253025	Whiz Nut .25-20	47	243050	Bolt .25-20 x 2.5
21	324200	Seat Belt	48	253440	Nut .25-20 Nylon Insert
22	243551	Bolt .5-13 x .75	49	422508	Step Bushing
23	257063	Nylon Washer .5	50	830325	Speed Nut
24	257062	Washer .5 SAE	51	833542	Cap – Arm Rest Bumper Nut
25	253470	Nut .5-13 Nylon Insert	52	424056	Bumper
26	253191	Whiz Bolt .312-18 x .625	53	257030	Washer .312
27	253193	Whiz Bolt .312-18 x 1			
28	729736	Cross Member – Seat			

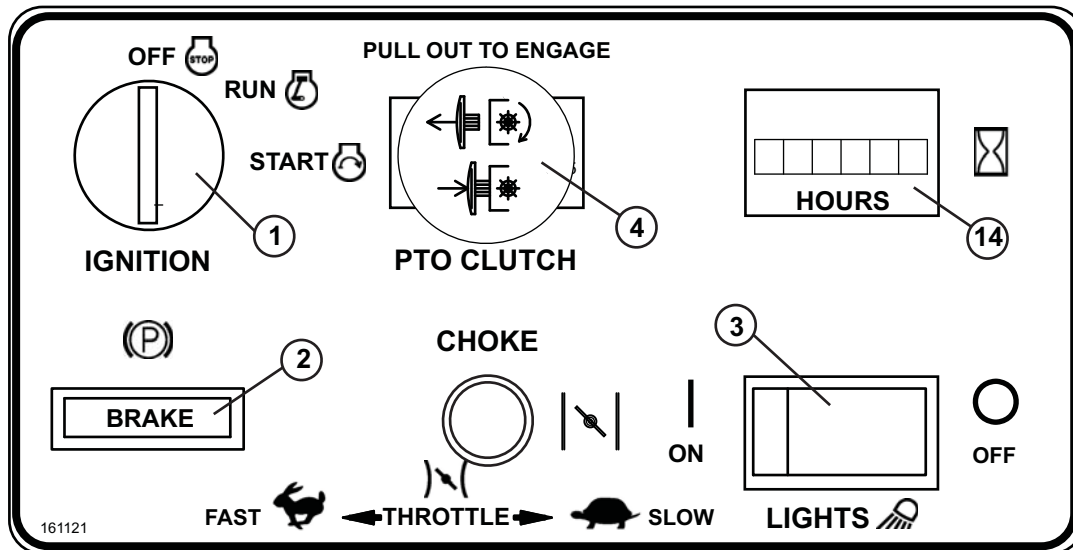
# SEAT ASSEMBLY & OPS TUBE



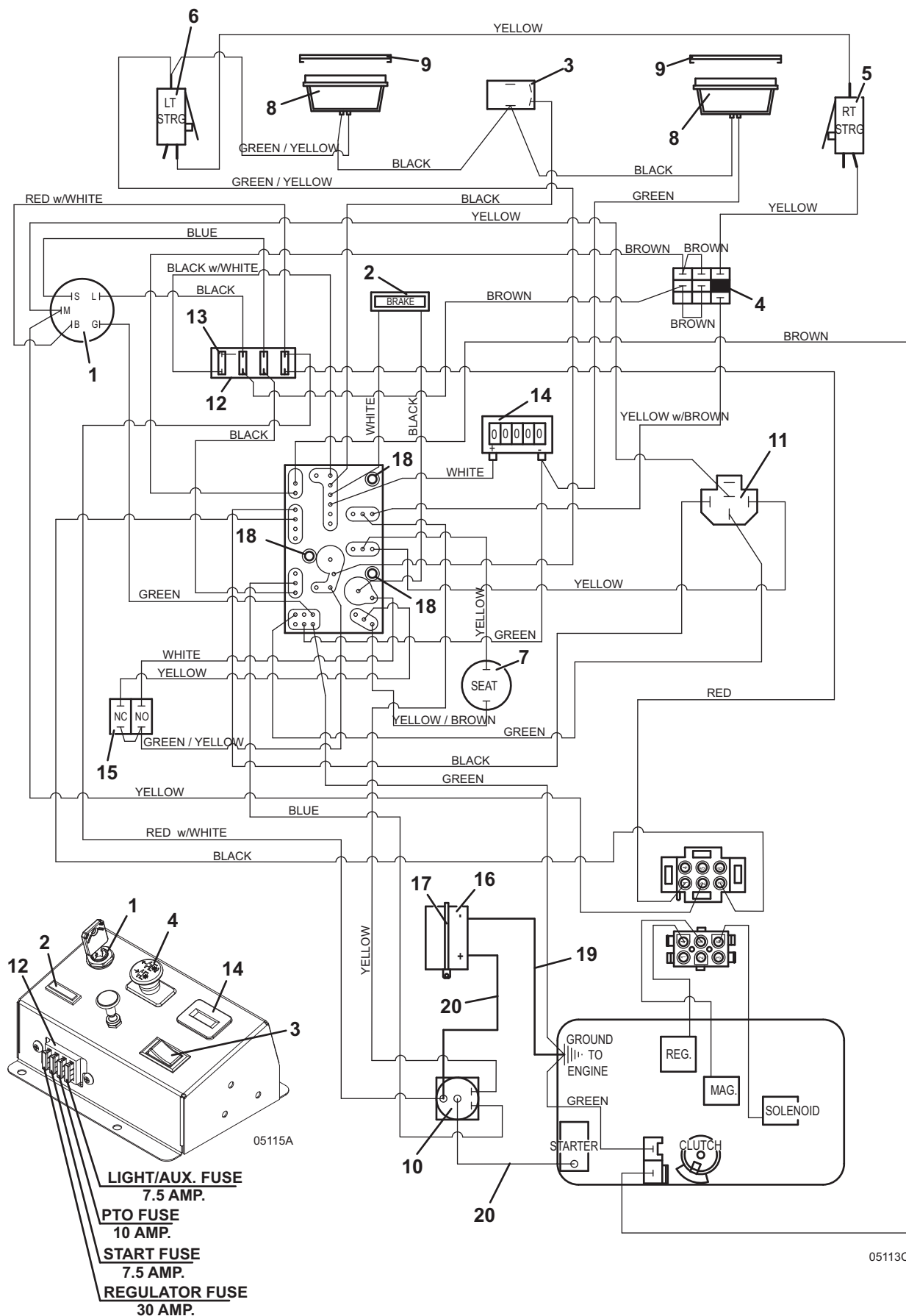
18020

# WIRING DIAGRAM - 124V & 126V

Item No.	Order No.	Description	Item No.	Order No.	Description
	605913	Wiring Assembly	12	181720	Fuse Block
	161121	Decal - Console		162320	Fuse I.D. Decal
1	183806	Ignition Switch	13	181470	Fuse 30 Amp Auto
	254498	Nylon Nut - Ignition Switch		181462	Fuse 10 Amp Auto
2	182326	Indicator Light - Brake		181460	Fuse 7.5 Amp Auto
3	184179	Light Switch (optional)	14	141551	Hour Meter
4	183925	Clutch Switch	15	183894	Brake Switch
5	183860	Safety Switch - Rt. Steering	16	180125	Battery 12 Volt
	720160	Rt. Steering Switch Mount		161252	Decal, Battery
6	183860	Safety Switch - Lt. Steering		723062	Mount - Battery
	720161	Lt. Steering Switch Mount	17	604785	Battery Hold Down Strap
7	183871	Seat Safety Switch	18	423690	Spacer - PC Board Support
8	182261	Worklamp LED Flood (optional) (includes item 9)	19	180290	Battery Cable 30" Black
9	182251	Bezel (optional)	20	180322	Battery Cable 24" Red
10	184251	Solenoid Switch 4 Post		425220	Battery Terminal Boot
11	184271	Relay w/Mount		425216	Alternator Terminal Boot



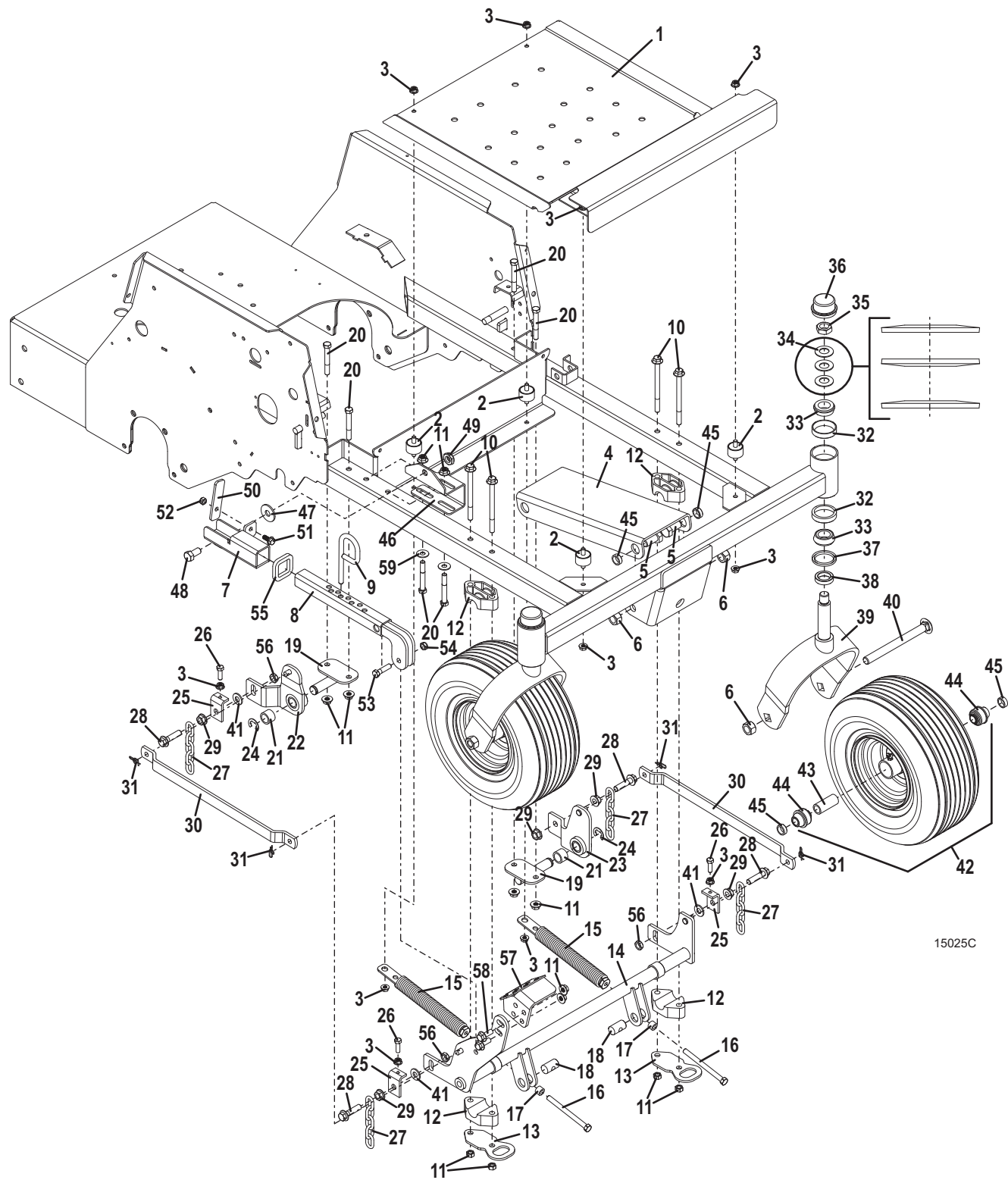
# WIRING DIAGRAM - 124V & 126V



# DECK CARRIER LINKAGE

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645318	Footrest	29	253058	Whiz Nut .437-14
2	424074	Vibration Isolator	30	732811	Strap – Carrier Linkage
3	253035	Whiz Nut .312-18	31	260608	Ring Cotter .054 x .375
4	776214	Radius Arm - 100V/48 & 52	32	123522	Bearing Cup
	776218	Radius Arm - 100V/61	33	122522	Bearing – Tapered
5	243795	Bolt .625-11 x 1.25	34	257320	Washer – Spring
6	253970	Lock Nut .625-11	35	254505	Jam Nut .75-16 Nylon Top lock
7	645274	Guide – Latch Tube	36	481432	Dust Cap
8	645845	Tube – Height Adjust	37	125855	Seal
9	730434	Deck Pin – Height Adjust	38	282615	Spacer
10	253215	Flange Bolt .375-16 x 5	39	645221	Fork
11	253043	Whiz Nut .375-16 Lg Flange	40	247726	Carriage Bolt .625 x 7
12	423643	Lift Bearing Block	41	257051	Washer .437 SAE
13	774064	Plate – Lift Bearing	42	603975	Wheel & Tire Assembly
14	645650	Pivot – Front Carrier			13 x 6.5 x 6 w/Bearings & Spacer
15	604513	Spring & Plug Nut Assembly	43	423750	Bearing Spacer
16	243395	Bolt .375-16 x 4.5 Full Thread	44	120048	Wheel Bearing
17	902280	Spacer	45	902422	Spacer
18	881154	Shaft – Spring Mount	46	729685	Mount – Height Adjust
19	644644	Pivot Carrier	47	821516	Washer – Nylon 1.5 x .531
20	243360	Bolt .375-16 x 2.75	48	243560	Bolt .5-13 x 1
21	902412	Spacer	49	253470	Nut .5-13 Nylon Insert
22	603741	Rocker Assembly Rt.	50	775147	Latch – Deck
	121764	Oilite Bearing	51	253192	Whiz Bolt .312-18 x .75
23	603728	Rocker Assembly Lt.	52	253450	Nut .312-18 Nylon Insert
	121764	Oilite Bearing	53	243340	Bolt .375-16 x 1.5
24	263529	Retainer - External	54	253460	Nut .375-16 Nylon Insert
25	732586	Adjusting Strap	55	423696	Spacer – Height Adjustment
26	243205	Bolt .312-18 x 1	56	254461	Jam Nut .437-14
27	820331	Chain – 5 Links	57	644467	Foot Pedal
28	243458	Flange Bolt .437-14 x 1.75	58	253203	Whiz Bolt .375-16 x 1
			59	257040	Flat Washer .375

# DECK CARRIER LINKAGE



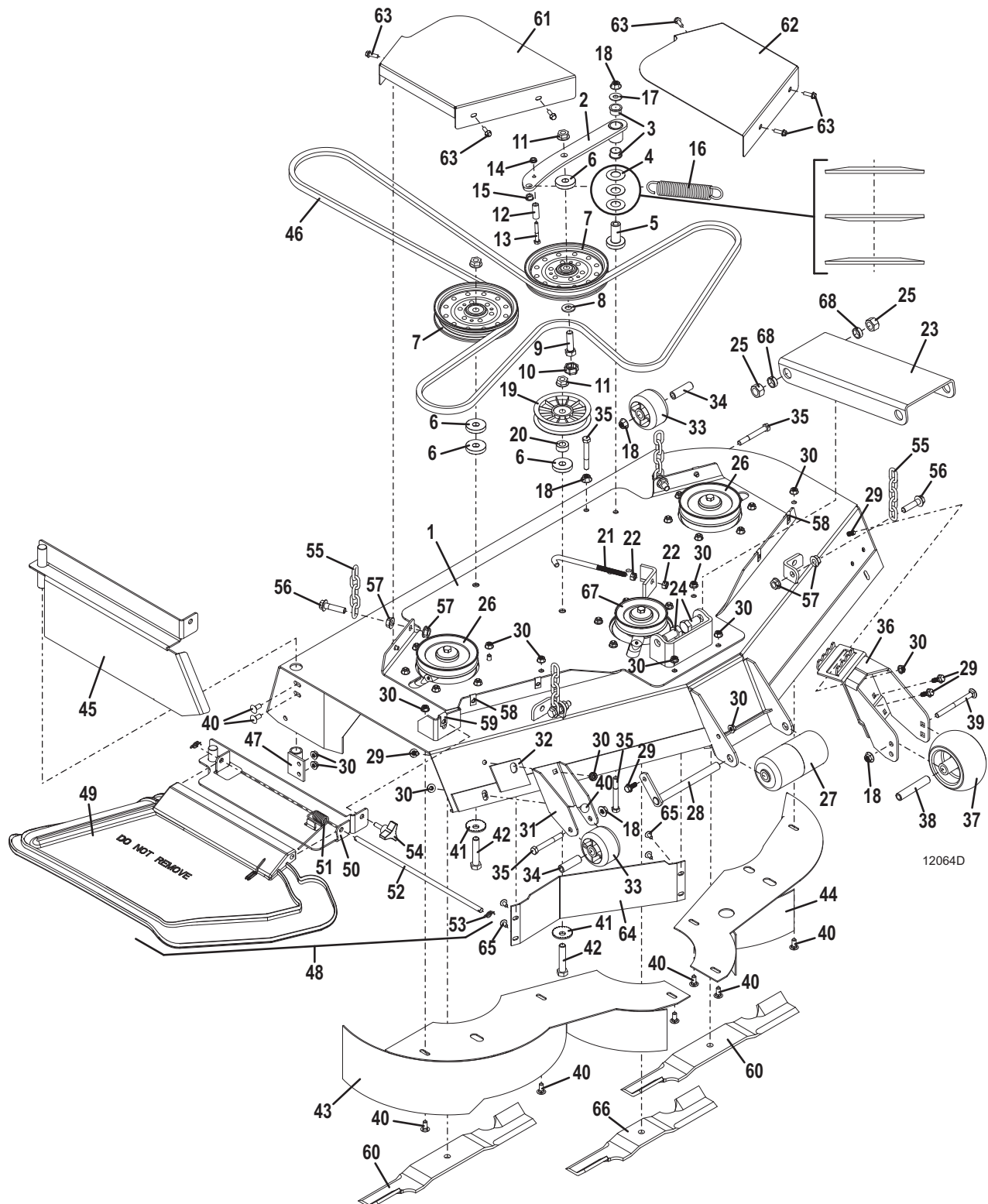
15025C

# DECK ASSEMBLY - MODEL 124V/48

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645188	Deck – 124V/48	38	942137	Bearing Tube
2	824483	Idler Arm Assembly (includes items 3-5)	39	247310	Carriage Bolt .375-16 x 4.25
3	121756	Bearing - Oilite	40	247130	Carriage Bolt .312 x .75
4	257319	Washer - Spring	41	257059	Cupped Washer .5
5	121651	Bearing Pedestal	42	243590	Bolt .5-13 x 2.5
6	257160	Washer .312 x .531 x 1.625	43	645600	Mulch Plate Rt. (Optional)
7	393250	Idler 6.0	44	645601	Mulch Plate Lt. (Optional)
8	257062	Washer .5 SAE	45	644058	End Cap (Optional)
9	243575	Bolt .5-13 x 1.75	46	382108	Belt
10	423670	Stabilizer Cap	47	643632	Pivot Mount
11	253067	Nut Flange Spiral Lock .5-13	48	604317	Discharge Shield Assembly (includes items 49-53)
12	784057	Tube - Guide	49	422042	Discharge Shield
13	243038	Bolt .25-20 x 1.75	50	644570	Mount – Discharge Shield
14	253025	Whiz Nut .25-20	51	284406	Spring - Torsion
15	422520	Nylon Bearing	52	780650	Pin
16	283848	Spring - Extension	53	260608	Ring Cotter .054 x .375
17	257040	Washer .375	54	252821	Stud – 3 Prong Head
18	253043	Whiz Nut .375-16	55	820331	Lift Chain – 5 Links
19	393225	Idler 4.75	56	243458	Bolt .437-14 x 1.75
20	902313	Spacer .430	57	253058	Whiz Nut .437-14
21	240151	“J” Bolt – Idler Adjustment	58	254431	Speed Nut .25-20
22	254450	Nut .375-16	59	254448	Speed Nut .312-18 x .25
23	776214	Radius Arm	60	320239	Blade 18” High Lift Notched
24	243795	Bolt .625-11 x 1.25		320240	Blade 18” Hi-Low Mulching
25	253970	Lock Nut .625-11		320236	Blade 18” Medium Lift
26	415902	Sheave		320238	Blade 18” Contour
27	603725	Center Roller Assembly	61	751044	Shield – Belt Rt.
28	644512	Lock Pin - Roller	62	751045	Shield – Belt Lt.
29	253192	Whiz Bolt .312-18 x .75	63	253175	Whiz Bolt .25-20 x .75
30	253035	Whiz Nut .312-18	64	724588	Auxiliary Front Shroud
31	754203	Roller Mount – Formed Rt.	65	253176	Whiz Bolt .25-20 x .5 Truss
32	776231	Spacer – Roller Mount	66	320234	Blade 15” High Lift Notched
33	426122	Roller 3 x 2 x .625		320231	Blade 15” Medium Lift
34	902284	Spacer – Roller Mount		320233	Blade 15” Contour
35	243365	Bolt .375-16 x 3		320235	Blade 15” Hi-Low Mulching
36	645589	Mount – Anti-Scalp Roller Lt. - Tread	67	415870	Sheave
37	484230	Wheel – Anti-Scalp	68	902422	Spacer



# DECK ASSEMBLY - MODEL 124V/48

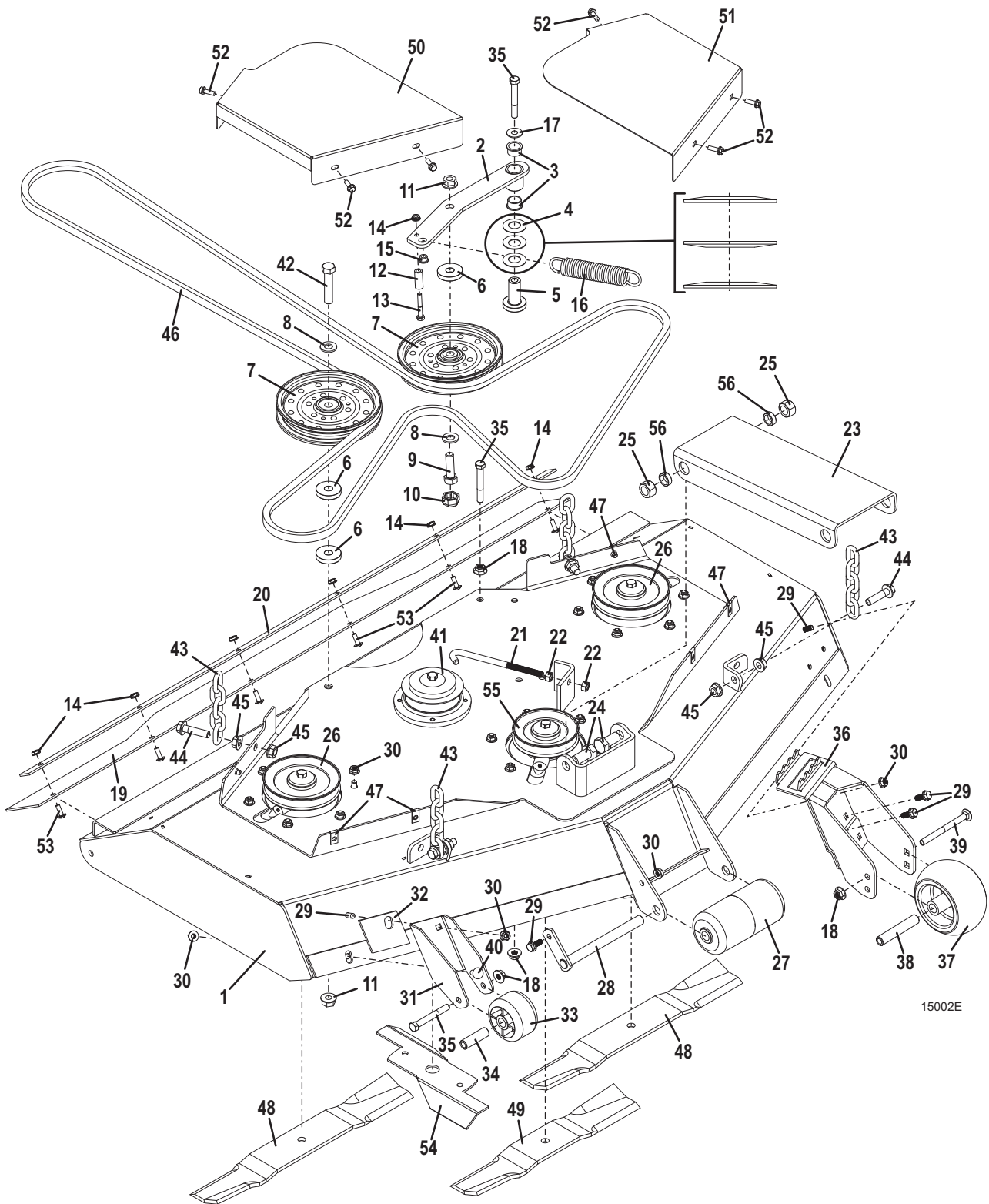


12064D

# DECK ASSEMBLY - MODEL 124V/48R

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645192	Deck – 124V/48R	29	253192	Whiz Bolt .312-18 x .75
2	824462	Idler Arm Assembly (includes items 3-5)	30	253035	Whiz Nut .312-18
3	121756	Bearing - Oilite	31	754203	Roller Mount – Formed Rt.
4	257319	Washer - Spring	32	776231	Spacer – Roller Mount
5	121651	Bearing Pedestal	33	426122	Roller 3 x 2 x .625
6	257160	Washer .312 x .531 x 1.625	34	902284	Spacer – Roller Mount
7	393250	Idler 6.0	35	243365	Bolt .375-16 x 3.0
8	257062	Washer .5 SAE	36	645589	Mount – Anti-Scalp Roller Lt. - Tread
9	243575	Bolt .5-13 x 1.75	37	484230	Wheel – Anti-Scalp
10	423670	Stabilizer Cap	38	942137	Bearing Tube
11	253067	Nut Flange Spiral Lock .5-13	39	247310	Carriage Bolt .375-16 x4.25
12	784057	Tube - Guide	40	247130	Carriage Bolt .312 x .75
13	243038	Bolt .25-20 x 1.75	41	415010	Sheave
14	253025	Whiz Nut .25-20	42	243590	Bolt .5-13 x 2.5
15	422520	Nylon Bearing	43	820331	Lift Chain – 5 Links
16	283848	Spring - Extension	44	243458	Bolt .437-14 x 1.75
17	257040	Washer .375	45	253058	Whiz Nut .437-14
18	253043	Whiz Nut .375-16	46	382093	Belt
19	424156	Flap - Deck	47	254431	Speed Nut .25-20
20	782363	Strap - Flap	48	320236	Blade 18" Medium Lift
21	240151	"J" Bolt – Idler Adjustment	49	320231	Blade 15" Medium Lift
22	254450	Nut .375-16	50	751044	Shield – Belt Rt.
23	776214	Radius Arm	51	751045	Shield – Belt Lt.
24	243795	Bolt .625-11 x 1.25	52	253175	Whiz Bolt .25-20 x .75 Hex
25	253970	Lock Nut .625-11	53	253177	Whiz Bolt .25-20 x .75 Truss
26	415902	Sheave	54	766026	Grass Thrower
27	603725	Center Roller Assembly	55	415870	Sheave
28	644512	Lock Pin - Roller	56	902422	Spacer

# DECK ASSEMBLY - MODEL 124V/48R

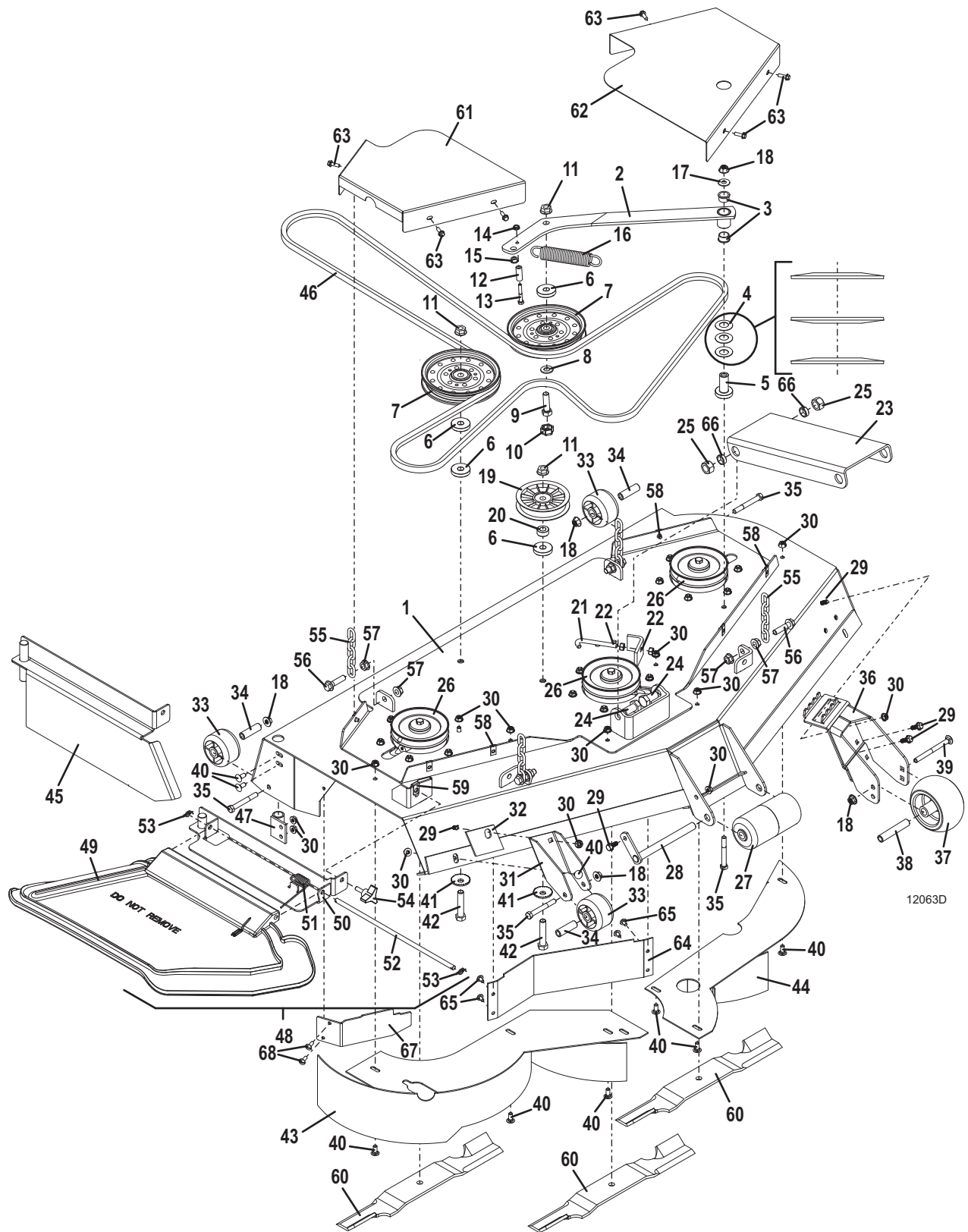


15002E

# DECK ASSEMBLY - MODEL 126V/52

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645189	Deck – 126V/52	37	484230	Wheel – Anti-Scalp
2	824473	Idler Arm Assembly (includes items 3-5)	38	942137	Bearing Tube
3	121756	Bearing - Oilite	39	247310	Carriage Bolt .375-16 x4.25
4	257319	Washer - Spring	40	247130	Carriage Bolt .312 x .75
5	121651	Bearing Pedestal	41	257059	Cupped Washer .5
6	257160	Washer .312 x .531 x 1.625	42	243590	Bolt .5-13 x 2.5
7	393250	Idler 6.0	43	644608	Mulch Plate Rt. (Optional)
8	257062	Washer .5 SAE	44	644609	Mulch Plate Lt. (Optional)
9	243575	Bolt .5-13 x 1.75	45	644058	End Cap (Optional)
10	423670	Stabilizer Cap	46	382111	Belt
11	253067	Nut Flange Spiral Lock .5-13	47	643632	Pivot Mount
12	784057	Tube - Guide	48	604317	Discharge Shield Assembly (includes items 49-53)
13	243038	Bolt .25-20 x 1.75	49	422042	Discharge Shield
14	253025	Whiz Nut .25-20	50	644570	Mount – Discharge Shield
15	422520	Nylon Bearing	51	284406	Spring - Torsion
16	283852	Spring - Extension	52	780650	Pin
17	257040	Washer .375	53	260608	Ring Cotter .054 x .375
18	253043	Whiz Nut .375-16	54	252821	Stud – 3 Prong Head
19	393225	Idler 4.75	55	820331	Lift Chain – 5 Links
20	902313	Spacer .430	56	243458	Bolt .437-14 x 1.75
21	730391	“J” Bolt – Idler Adjustment	57	253058	Whiz Nut .437-14
22	254450	Nut .375-16	58	254431	Speed Nut .25-20
23	776214	Radius Arm	59	254448	Speed Nut .312-18 x .25
24	243795	Bolt .625-11 x 1.25	60	320239	Blade 18” High Lift Notched
25	253970	Lock Nut .625-11		320240	Blade 18” Hi-Low Mulching
26	415902	Sheave		320236	Blade 18” Medium Lift
27	603725	Center Roller Assembly		320238	Blade 18” Contour
28	644512	Lock Pin - Roller	61	751046	Shield – Belt Rt.
29	253192	Whiz Bolt .312-18 x .75	62	751047	Shield – Belt Lt.
30	253035	Whiz Nut .312-18	63	253175	Whiz Bolt .25-20 x .75
31	754203	Roller Mount – Formed Rt.	64	724588	Auxiliary Front Shroud
32	776231	Spacer – Roller Mount	65	253176	Whiz Bolt .25-20 x .5 Truss
33	426122	Roller 3 x 2 x .625	66	902422	Spacer
34	902284	Spacer – Roller Mount	67	729686	Shroud - Discharge Deflector
35	243365	Bolt .375-16 x 3	68	253177	Whiz Bolt .25-20 x .75 Truss
36	645589	Mount – Anti-Scalp Roller Lt. - Tread			

# DECK ASSEMBLY - MODEL 126V/52

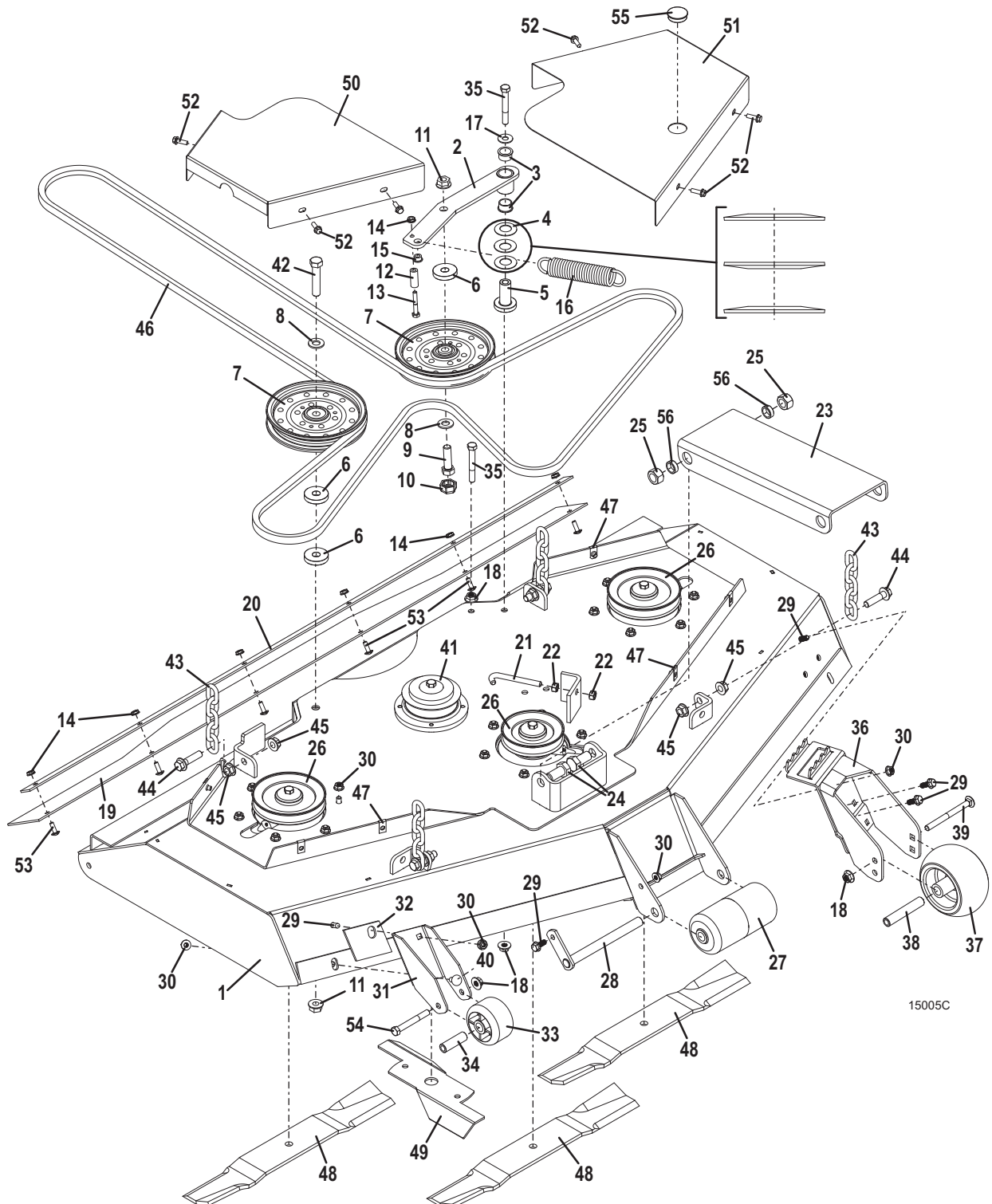


12063D

# DECK ASSEMBLY - MODEL 126V/52R

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645193	Deck – 126V/52R	28	644512	Lock Pin - Roller
2	824462	Idler Arm Assembly (includes items 3-5)	29	253192	Whiz Bolt .312-18 x .75
3	121756	Bearing - Oilite	30	253035	Whiz Nut .312-18
4	257319	Washer - Spring	31	754203	Roller Mount – Formed Rt.
5	121651	Bearing Pedestal	32	776231	Spacer – Roller Mount
6	257160	Washer .312 x .531 x 1.625	33	426122	Roller 3 x 2 x .625
7	393250	Idler 6.0	34	902284	Spacer – Roller Mount
8	257062	Washer .5 SAE	35	243360	Bolt .375-16 x 2.75
9	243575	Bolt .5-13 x 1.75	36	645589	Mount – Anti-Scalp Roller Lt. - Tread
10	423670	Stabilizer Cap	37	484230	Wheel – Anti-Scalp
11	253067	Nut Flange Spiral Lock .5-13	38	942137	Bearing Tube
12	784057	Tube - Guide	39	247310	Carriage Bolt .375-16 x 4.25
13	243038	Bolt .25-20 x 1.75	40	247130	Carriage Bolt .312 x .75
14	253025	Whiz Nut .25-20	41	415010	Sheave
15	422520	Nylon Bearing	42	243590	Bolt .5-13 x 2.5
16	283848	Spring - Extension	43	820331	Lift Chain – 5 Links
17	257040	Washer .375	44	243458	Bolt .437-14 x 1.75
18	253043	Whiz Nut .375-16	45	253058	Whiz Nut .437-14
19	424155	Flap - Deck	46	382111	Belt
20	782362	Strap - Flap	47	254431	Speed Nut .25-20
21	730391	“J” Bolt – Idler Adjustment	48	320236	Blade 18" Medium Lift
22	254450	Nut .375-16	49	766026	Grass Thrower
23	776214	Radius Arm	50	751046	Shield – Belt Rt.
24	243795	Bolt .625-11 x 1.25	51	751047	Shield – Belt Lt.
25	253970	Lock Nut .625-11	52	253175	Whiz Bolt .25-20 x .75 Hex
26	415902	Sheave	53	253177	Whiz Bolt .25-20 x .75 Truss
27	603725	Center Roller Assembly	54	243365	Bolt .375-16 x 3.0
			55	422074	Plastic Plug 1.25
			56	902422	Spacer

# DECK ASSEMBLY - MODEL 126V/52R



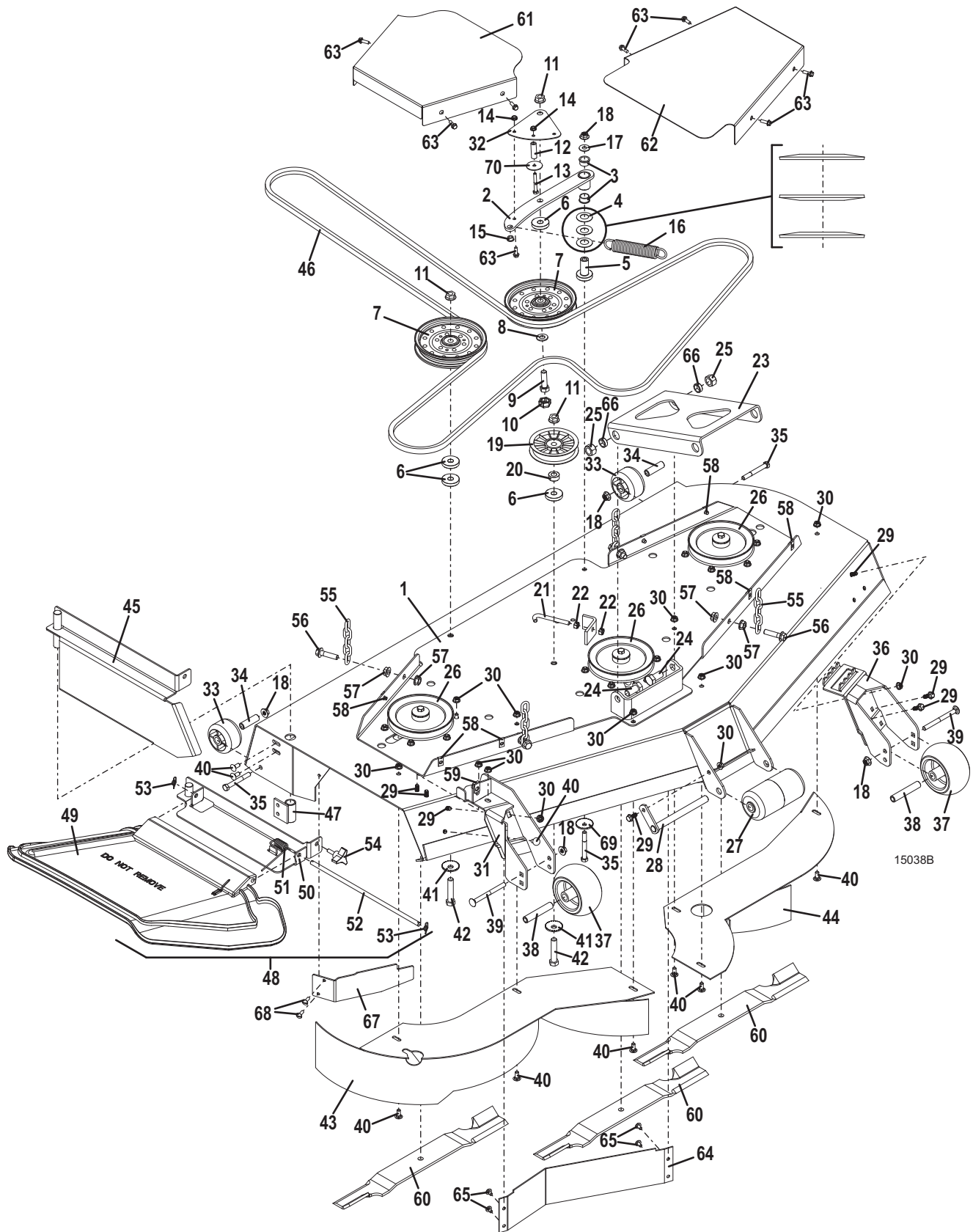
15005C

# DECK ASSEMBLY - MODEL 126V/61

Item No.	Order No.	Description	Item No.	Order No.	Description
1	645194	Deck – 100V/61	38	942137	Bearing Tube
2	824483	Idler Arm Assembly (includes items 3-5)	39	247310	Carriage Bolt .375-16 x 4.25
3	121756	Bearing - Oilite	40	247130	Carriage Bolt .312 x .75
4	257319	Washer - Spring	41	257059	Cupped Washer .5
5	121651	Bearing Pedestal	42	243590	Bolt .5-13 x 2.5
6	257160	Washer .312 x .531 x 1.625	43	644611	Mulch Plate Rt. (Optional)
7	393250	Idler 6.0	44	644610	Mulch Plate Lt. (Optional)
8	257062	Washer .5 SAE	45	644058	End Cap (Optional)
9	243575	Bolt .5-13 x 1.75	46	382099	Belt
10	423670	Stabilizer Cap	47	643632	Pivot Mount
11	253067	Nut Flange Spiral Lock .5-13	48	604317	Discharge Shield Assembly (includes items 49-53)
12	784051	Tube - Guide	49	422042	Discharge Shield
13	243040	Bolt .25-20 x 2	50	644570	Mount – Discharge Shield
14	253025	Whiz Nut .25-20	51	284406	Spring - Torsion
15	422520	Nylon Bearing	52	780650	Pin
16	283848	Spring - Extension	53	260608	Ring Cotter .054 x .375
17	257040	Washer .375	54	252821	Stud – 3 Prong Head
18	253043	Whiz Nut .375-16	55	820320	Lift Chain – 5 Links
19	393225	Idler 4.75	56	243458	Bolt .437-14 x 1.75
20	902313	Spacer .430	57	253058	Whiz Nut .437-14
21	730391	“J” Bolt – Idler Adjustment	58	254431	Speed Nut .25-20
22	254450	Nut .375-16	59	254448	Speed Nut .312-18 x .25
23	776218	Radius Arm 100V/61	60	320245	Blade 21" High Lift Notched
24	243795	Bolt .625-11 x 1.25		320247	Blade 21" Hi-Low Mulching
25	253970	Lock Nut .625-11		320242	Blade 21" Medium Lift
26	415892	Sheave		320244	Blade 21" Contour
27	603725	Center Roller Assembly	61	751055	Shield – Belt Rt.
28	644512	Lock Pin - Roller	62	751056	Shield – Belt Lt.
29	253192	Whiz Bolt .312-18 x .75	63	253175	Whiz Bolt .25-20 x .75 Hex
30	253035	Whiz Nut .312-18	64	724589	Auxiliary Front Shroud
31	645576	Mount – Anti-scalp Roller Rt.	65	253176	Whiz Bolt .25-20 x .5 Truss
32	723012	Bracket – Idler Guide	66	902422	Spacer
33	426122	Roller 3 x 2 x .625	67	729687	Shroud – Discharge Deflector
34	902284	Spacer – Roller Mount	68	253177	Whiz Bolt .25-20 x .75 Truss
35	243365	Bolt .375-16 x 3	69	257041	Cupped Washer .375
36	645589	Mount – Anti-Scalp Roller Lt. - Tread	70	257024	Washer - Fender .25
37	484230	Wheel – Anti-Scalp			



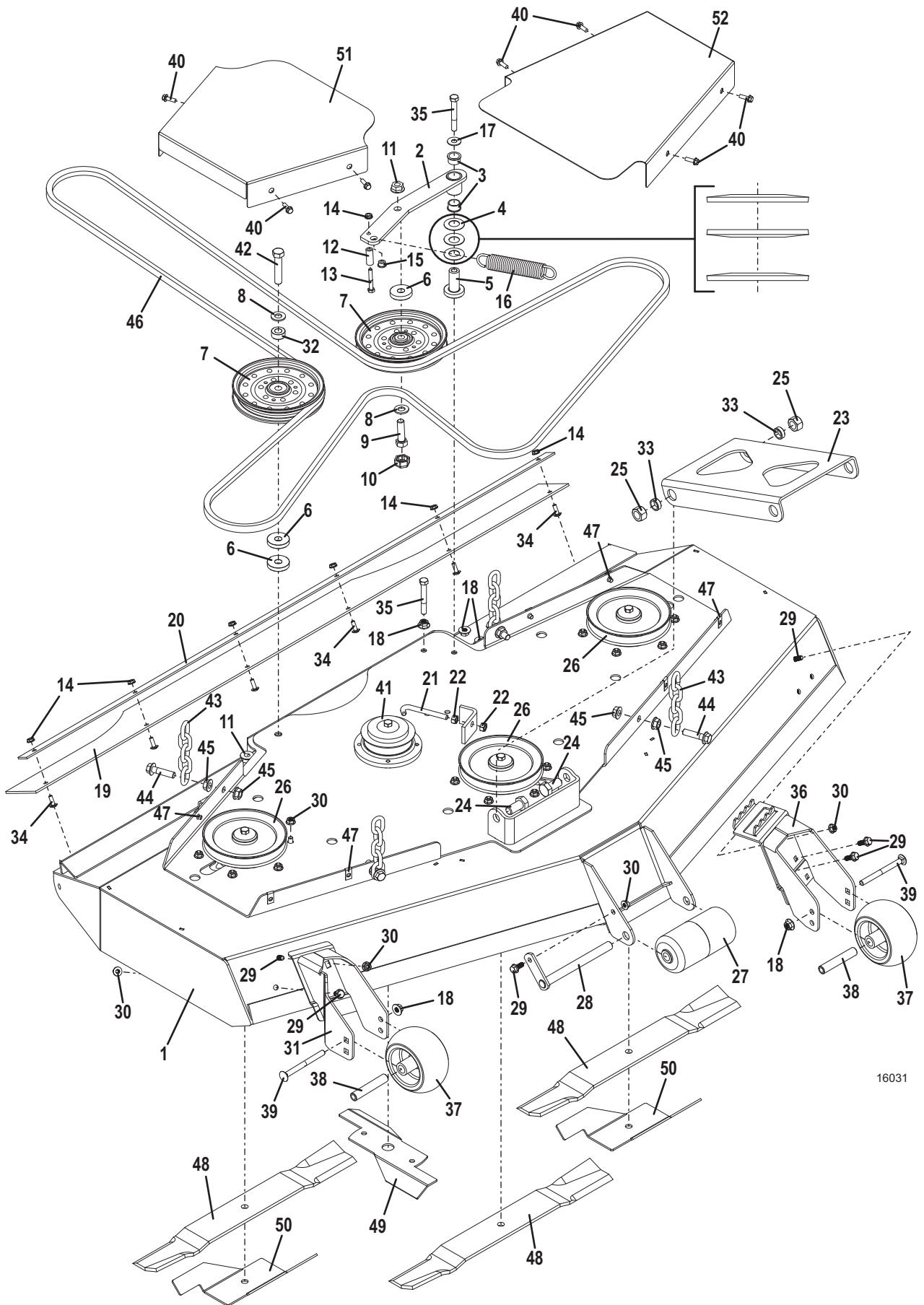
# DECK ASSEMBLY - MODEL 126V/61



# DECK ASSEMBLY - MODEL 126V/61R

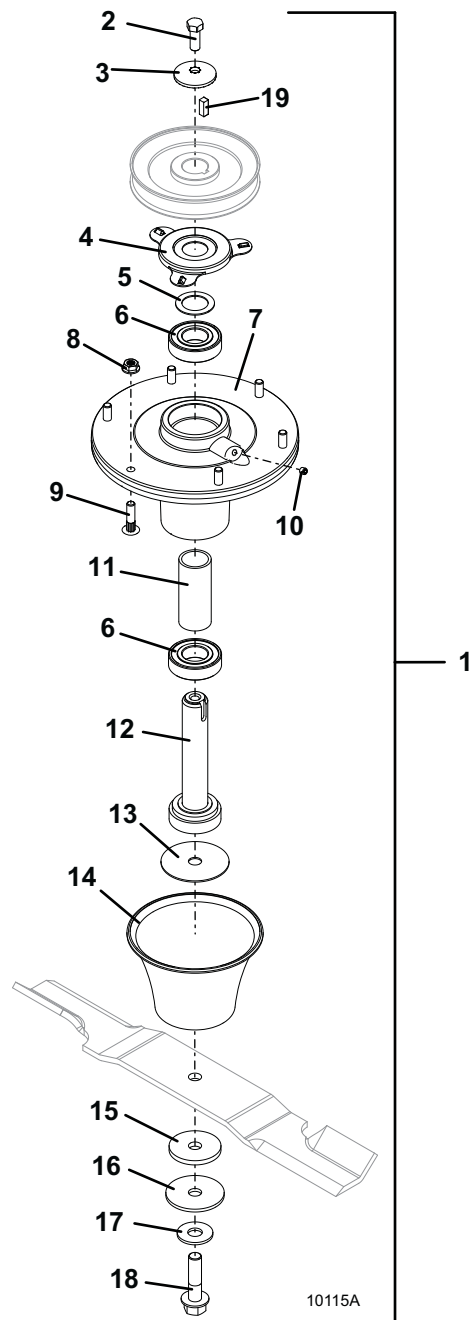
Item No.	Order No.	Description	Item No.	Order No.	Description
1	645195	Deck 100/61R	28	644512	Lock Pin – Roller
2	824462	Idler Arm Assembly (includes item 3-5)	29	253192	Whiz Bolt .312-18 x .75
3	121756	Bearing - Oilite	30	253035	Whiz Nut .312-18
4	257319	Washer - Spring	31	645581	Mount – Anti-scalp Roller Rt.
5	121651	Bearing Pedestal	32	902313	Spacer - .430 x .531 x 1
6	257160	Washer .312 x .531 x 1.625	33	902422	Spacer
7	393250	Idler 6.0	34	253177	Whiz Bolt .25-20 x .75 Truss
8	257062	Washer .5 SAE	35	243360	Bolt .375-16 x 2.75
9	243575	Bolt .5-13 x 1.75	36	645589	Mount – Anti-Scalp Roller Lt. – Tread
10	423670	Stabilizer Cap	37	484230	Wheel – Anti-Scalp
11	253067	Nut – Flange Spiral Lock .5-13	38	942137	Bearing Tube
12	784057	Tube – Guide	39	247310	Carriage Bolt .375-16 x 4.25
13	243038	Bolt .25-20 x 1.75	40	253175	Whiz Bolt .25-20 x .75 Hex
14	253025	Whiz Nut .25-20	41	415010	Sheave
15	422520	Nylon Bearing	42	243590	Bolt .5-13 x 2.5
16	283848	Spring – Extension	43	820331	Lift Chain – 5 Links
17	257040	Washer .375	44	243458	Bolt .437-14 x 1.75
18	253043	Whiz Nut .375-16	45	253058	Whiz Nut .437-14
19	424154	Flap – Deck	46	382101	Belt
20	782364	Strap – Flap	47	254431	Speed Nut .25-20
21	730391	“J” Bolt – Idler Adjustment	48	320242	Blade 21" Medium Lift
22	254450	Nut .375-16	49	766026	Grass Thrower
23	776218	Radius Arm 100V61	50	766025	Grass Thrower
24	243795	Bolt .625-11 x 1.25	51	751055	Shield – Belt Rt.
25	253970	Lock Nut .625-11	52	751056	Shield – Belt Lt.
26	415892	Sheave			
27	603725	Center Roller Assembly			

# DECK ASSEMBLY - MODEL 126V/61R



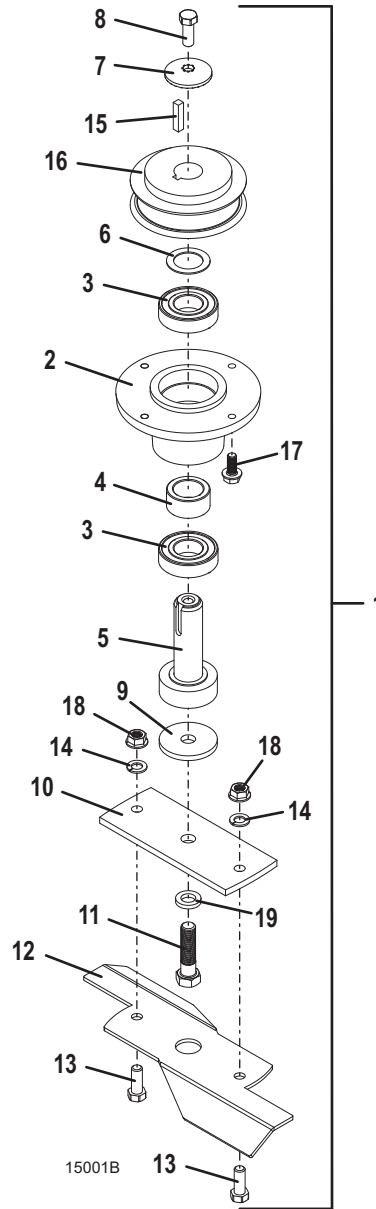
16031

# BLADE SPINDLE ASSEMBLY



Item No.	Order No.	Description	Item No.	Order No.	Description
1	623750	Blade Spindle Assembly (includes items 2-18)	10	259305	Set Screw .25-28 x 1.25 Nylon
2	243331	Bolt .375-24 x 1	11	903643	Bearing Spacer
3	257041	Cupped Washer	12	604775	Spindle Shaft Assembly 5.75
4	721167	Bearing Shield	13	257055	Washer .510 x 2.675 x 10 Ga.
5	257106	Washer 1 x 18 Ga.	14	423680	Deflector Cone
6	110081	Ball Bearing 25 mm – Double Seal	15	421200	Fiber Washer
7	604413	Spindle Housing (includes item 9)	16	257061	Flat Washer
8	253035	Whiz Nut .312-18	17	257057	Washer .5 – Hardened
9	247141	Stud Bolt .312-18 x 1.25	18	243583	Bolt .5-20 x 2 Grade 8
			19	281580	Square Key .25 x .690

# DISCHARGE SPINDLE ASSEMBLY



Item No.	Order No.	Description	Item No.	Order No.	Description
1	623746	Discharge Spindle Assembly (includes items 2-19)	10	776151	Mount – Blade CCW
2	320520	Spindle Housing	11	243582	Bolt .5-13 x 2 Left Hand
3	110081	Ball Bearing 25 mm – Double Seal	12	766026	Grass Thrower
4	282630	Bearing Spacer	13	243330	Bolt .375-16 x 1
5	605774	Spindle Assembly Left Hand	14	257412	Lock Washer .375-16
6	257106	Washer 1 x 18 Ga.	15	281586	Square Key .25 x 1.125
7	257041	Cupped Washer	16	415010	Sheave
8	243331	Bolt .375-24 x 1	17	253191	Whiz Bolt .312-18 x .625
9	421200	Fiber Washer	18	253044	Flange Nut .375-16 Spiral Lock
			19	882009	Washer .875 x .511 x .150

03-15001B

Rev. 07-16





