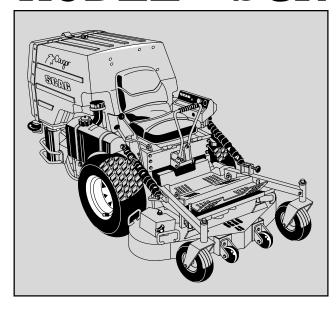
# SEAG POWER EQUIPMENT

# MODEL SCR



THIS MANUAL CONTAINS THE OPERATING INSTRUCTIONS AND SAFETY INFORMATION FOR YOUR SCAG MOWER. READING THIS MANUAL CAN PROVIDE YOU WITH ASSISTANCE IN MAINTENANCE AND ADJUSTMENT PROCEDURES TO KEEP YOUR MOWER PERFORMING TO MAXIMUM EFFICIENCY. THE SPECIFIC MODELS THAT THIS BOOK COVERS ARE CONTAINED ON THE INSIDE COVER. BEFORE OPERATING YOUR MACHINE, PLEASE READ ALL THE INFORMATION ENCLOSED.



# FAILURE TO FOLLOW SAFE OPERATING PRACTICES MAY RESULT IN SERIOUS INJURY.

- Keep all shields in place, especially the grass discharge chute.
- \* Before performing any maintenance or service, stop the machine and remove the spark plug wire and ignition key.
- \* If a mechanism becomes clogged, stop the engine before cleaning.
- \* Keep hands, feet and clothing away from power-driven parts.
- \* Read this manual completely as well as other manuals that came with your mower.
- \* Keep others off the tractor (only one person at a time)

#### REMEMBER - YOUR MOWER IS ONLY AS SAFE AS THE OPERATOR!

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of the personnel involved in the operation, transport, maintenance, and storage of the equipment.

This manual covers the operating instructions and illustrated parts list for:

SCR42-25CH with a serial number of 7530001 to 7539999
SCR48-27KA with a serial number of 7550001 to 7559999
SCR48-25CH with a serial number of 7540001 to 7549999
SCR52-25CH with a serial number of 7560001 to 7569999
SCR52-27KA with a serial number of 7570001 to 7579999

Always use the entire serial number listed on the serial number tag when referring to this product.



#### GENERAL INFORMATION

#### 1.1 INTRODUCTION

Your mower was built to the highest standards in the industry. However, the prolonged life and maximum efficiency of your mower depends on you following the operating, maintenance and adjustment instructions in this manual.

If additional information or service is needed, contact your Scag Power Equipment Dealer.

We encourage you to contact your dealer for repairs. All Scag dealers are informed of the latest methods to service this equipment and provide prompt and efficient service in the field or at their service shop. They carry a full line of Scag service parts.

#### USE OF OTHER THAN ORIGINAL SCAG REPLACEMENT PARTS WILL VOID THE WARRANTY.

When ordering parts, always give the model and serial number of your tractor. The serial number plate is located where shown in Figure 1-1.

components dui important to co authorized serv manufacturer. components dui warranty.

Serial Plate

Figure 1-1 Tractor Serial Number Plate Location

For pictorial clarity, some illustrations and figures in this manual may show shields, guards or plates open or removed. Under no circumstances should your mower be operated without these devices in place.

All information is based upon product information available at the time of approval for printing. Scag Power Equipment reserves the right to make changes at any time without notice and without incurring any obligation.

#### 1.2 DIRECTION REFERENCE

The "Right" and "Left", "Front" and "Rear" of the machine are referenced from the operator's right and left when seated in the normal operating position and facing the forward travel direction.

### 1.3 SERVICING THE ENGINE AND DRIVE TRAIN COMPONENTS

The detail servicing and repair of the engine, hydraulic pumps and gearboxes are not covered in this manual; only routine maintenance and general service instructions are provided. For service of these components during the limited warranty period, it is important to contact your Scag dealer or find a local authorized servicing agent of the component manufacturer. Any unauthorized work done on these components during the warranty period may void your warranty.



ISO Symbols CE Mark

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1	Choke	0	Transmission
(P)	Parking Brake	48071S	Spinning Blade
	On/Start	W <sub>6</sub>	Spring Tension on Idler
0	Off/Stop		Oil
		Falling Hazard	d

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
4	Fast		Slow
	Continuously variable - Linear		Cutting element - Basic symbol
	Pinch Point		Cutting element - Engage
	Hourmeter/elapsed operating hours		Cutting element - Disengage
	Keep bystanders away		Read operator's manual



#### SAFETY INFORMATION

#### 2.1 INTRODUCTION

Your mower is only as safe as the operator. Carelessness or operator error may result in serious bodily injury or death. Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of the personnel involved in the operation, transport, maintenance and storage of the equipment. Make sure every operator is properly trained and thoroughly familiar with all of the controls before operating the mower.

### READ THIS OPERATOR'S MANUAL BEFORE ATTEMPTING TO START YOUR MOWER.

A replacement manual is available from your authorized Scag Service Dealer or by Contacting Scag Power Equipment, Service Department at P.O. Box 152, Mayville, WI 53050. Please indicate the complete model and serial number of your Scag product.

#### 2.2 SIGNAL WORDS



This symbol means "Attention! Become Alert! Your Safety is Involved!" The symbol is used with the following signal words to attract your attention to safety messages found on the decals and throughout this manual. The message that follows the symbol contains important information about safety. To avoid injury and possible death, carefully read the message! Be sure to fully understand the causes of possible injury or death.

#### **Signal Word:**

It is a distinctive word on safety decals and throughout this manual that alerts the viewer to the existence and relative degree of the hazard.

## **ADANGER:**

The signal word "DANGER" denotes that an extremely hazardous situation exists on or near the machine that could result in high probability of death or irrepairable injury if proper precautions are not taken.

### **AWARNING:**

The signal word "WARNING" denotes a hazard exists on or near the machine that can result in injury or death if proper precautions are not taken.

### ACAUTION:

The signal word "CAUTION" is a reminder of safety practices on or near the machine that could result in personal injury if proper precautions are not taken.

Your safety and the safety of others depends significantly upon your knowledge and understanding of all correct operating practices and procedures of this machine.

### 2.3 BEFORE OPERATION CONSIDERATIONS

- 1. **NEVER** allow children to operate this riding mower. Do not allow adults to operate this machine without proper instructions.
- 2. **DO NOT** mow when children and/or others are present.
- 3. Clear the area to be mowed of objects that could be picked up and thrown by the cutter blades.
- 4. **DO NOT** carry passengers.



- 5. **DO NOT** wear loose fitting clothing that could get tangled in moving parts. Do not operate the machine wearing shorts; always wear adequate protective clothing including long pants. Wearing safety glasses, safety shoes and a helmet is advisable and is required by some local ordinances and insurance regulations.
- 6. Operator hearing protection is recommended, particularly for continuous operation of the mower. Wear suitable hearing protection. Prolonged exposure to loud noise can cause hearing impairment or loss.
- 7. Keep the machine and attachments in good operating condition. Keep all shields and safety devices in place. If a shield, safety device or decal is defective or damaged, repair or replace it before operating the machine.

### **A**WARNING:

This machine is equipped with an interlock system intended to protect the operator and others from injury. This is accomplished by preventing the engine from starting unless the operator is seated in the seat, the deck drive is disengaged, and the speed control is placed in the neutral position with the parking brake applied. The system also shuts off the engine if the operator leaves the seat with the mower running and the speed control is not in the neutral postion with the parking brake applied. It will also shut off the engine if the hopper is raised with the cutter deck drive engaged. Never operate equipment with the interlock system disconnected or malfunctioning.

- 8. Be sure interlock switches are functioning correctly.
- 9. Fuel is flammable; handle with care. Fill fuel tank outdoors. Never fill indoors. Use a funnel or spout to inhibit spillage. Clean up any spillage before starting the engine.
- 10. **DO NOT** add fuel to a running or hot engine. An explosion could occur. Allow engine to cool for several minutes before adding fuel.
- 11. Keep flammable objects (cigarettes, matches, etc.), open flames and sparks away from the fuel tank and fuel container.

12. Equipment must comply with the latest requirements per ANSI J137 and/or ANSI S279 when driven on public roads.

#### -NOTE-

If the mower is driven on public roads, it must comply with state and local ordinances as well as SAE J137 and/or ANSI/ASAE S279 requirements. Contact your local authorities for regulations and equipment requirements.

- 13. **DO NOT** operate without a chute deflector installed; keep the deflector in lowest possible position.
- 14. Check the blade mounting bolts at frequent intervals for proper tightness.
- 15. Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before starting the machine.

#### 2.4 OPERATION CONSIDERATIONS

- 1. Know the function of all controls and how to stop quickly.
- Reduce speed and exercise extreme caution on slopes and in sharp turns to prevent tipping or loss of control.
   Be especially cautious when changing directions on slopes.

### **AWARNING:**

DO NOT operate on steep slopes. To check a slope, attempt to drive up it (with cutter deck down). If machine can drive up the slope without the wheels slipping, reduce speed and use extreme caution. ALWAYS FOLLOW OSHA APPROVED OPERATION.

- 3. Do not stop or start suddenly. WHEN MOWING A HILLSIDE, MOW UP AND DOWN THE FACE OF SLOPES, NEVER ACROSS THE FACE.
- 4. When using any attachment, never direct the discharge of material toward bystanders or allow anyone near the machine while in operation.



- 5. Before attempting to start the engine, with the operator in the seat, disengage power to the cutter deck, place the hopper in the stowed position, steering control levers in the neutral position and engage the parking brake.
- 6. If the mower discharge ever plugs, shut off the engine, remove the ignition key, and wait for all movement to stop before removing the obstruction. Do not use your hand to dislodge the clogged discharge chute. Use a stick or other device to remove clogged material.
- 7. Be alert for holes, rocks, and roots in the terrain and other hidden hazards. Keep away from any dropoff. Beware of overhead obstructions such as low limbs, etc. and underground obstacles such as sprinklers, pipes, tree roots, etc. Cautiously enter a new area. Be alert for hidden hazards.
- 8. Disengage power to cutter deck before backing up. Do not mow in reverse unless absolutely necessary and then only after observation of the entire area behind the mower.
- 9. **DO NOT** turn sharply. Use care when backing up.
- 10. Disengage power to cutter deck before crossing roads, walks or gravel drives. Watch for traffic when crossing roads or operating near roadways.
- 11. Mow only in daylight or good artificial light.
- 12. Take all possible precautions when leaving the machine unattended, such as disengaging the mower, lowering the attachments, setting the parking brake, stopping the engine, and removing the key.
- 13. Disengage power to the attachments when transporting or when not in use.
- 14. The machine and attachments should be stopped and inspected for damage after striking a foreign object, and damage should be repaired before restarting and operating the machine.

- 15. **DO NOT** touch the engine or the muffler while the engine is running or immediately after stopping. These areas may be hot enough to cause a burn.
- DO NOT run engine inside a building or confined area without proper ventilation. Exhaust fumes are hazardous and could cause death.

#### 2.5 MAINTENANCE CONSIDERATIONS

- 1. Never make adjustments to the machine with the engine running unless specifically instructed to do so. If the engine is running, keep hands, feet, and clothing away from moving parts.
- 2. Remove the key from the ignition switch to prevent accidental starting of the engine when servicing or adjusting the machine.
- 3. Keep all nuts, bolts and screws tight to ensure the machine is in safe working condition. Check blade mounting bolts frequently to be sure they are tight.
- 4. Do not change the engine governor settings or overspeed the engine. See the engine operator's manual for information on engine settings.
- 5. To reduce fire hazard, keep the engine free of grass, leaves, excessive grease and dirt.
- 6. Hydraulic fluid is under high pressure. Keep body and hands away from pinholes or nozzles that eject hydraulic fluid under high pressure. Use only cardboard or paper to search for leaks. If you need service on your hydraulic system, please see your authorized Scag dealer.
- 7. Hydraulic fluid under high pressure may have sufficient force to penetrate skin and cause serious injury. If hydraulic fluid is injected into the skin, it must be surgically removed within a few hours by a doctor or gangrene may result.



#### 2.6 SAFETY AND INSTRUCTIONAL DECALS



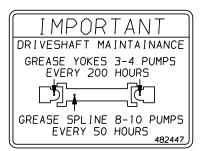


### ROTATING BLADES AND BELTS \* Keep hands, feet & clothing clear

- \* Keep all guards in place\* Shut off engine & disengage blade clutch before servicing
- \* Use caution in directing discharge \* Read instruction manual before operating

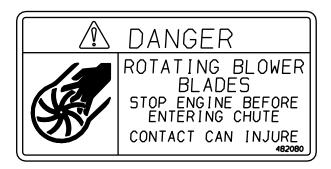
DO NOT OPERATE UNLESS GRASS CATCHER, MULCHING KIT OR DISCHARGE CHUTE IS INSTALLED











#### 🕰 WARN I NG

DO NOT OPERATE WITHOUT DISCHARGE CHUTE, MULCHING KIT, OR ENTIRE GRASS CATCHER INSTALLED 482165

> IMPORTANT SPINDLE BLADE BOLTS ARE LH THREAD 482182



### **SPECIFICATIONS**

3.1 ENGINE	
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General Type	Heavy Duty Industrial/Commercial Gasoline
Brands	Kohler & Kawasaki
Model	25 HP Kohler Command CH25S & 27HP Kawasaki FD750D
Horsepower	25 HP at 3600 RPM (SCR42-25CH, SCR48-25CH & SCR52-25CH)
*	27HP at 3600 RPM (SCR48-27KA & SCR52-27KA)
Type	
Displacement	
Cylinders	
•	Mechanical Type with Variable Speed Control Set At 3600 RPM
Idle Speed	
Fuel Pump Group	
r	Carburetor with Smart-Choke <sup>TM</sup> and Fuel Shutdown Solenoid
Fuel	Non-Leaded Gasoline with a Minimum Octane Rating of 87
	Positive Displacement Gerotor <sup>TM</sup> Oil Pump with Remote Oil Filter
Starter	
Belts:	Electric Starting with Cen Starter
Engine Belt	Scag Part Number - 481976
Blower Drive Belt	
Pump Drive Belt	
Tunip Direc Deit	Seag 1 dit i vuilloci - 401976
3.2 ELECTRICAL	
Battery	12 Volt
Charging System	
Charging Output	
System Polarity	•
Starter	
	Seat, Neutral Control, Mower Engagement (BBC), Hopper and
Incircon 5 witches	Parking Brake
Instrument Panel	. Ammeter, Hourmeter, Key Switch, Throttle Lever, Manual Choke,
Instrument Fuller	BBC Lever, Fuses, and Water Temp Gauge (KA Only)
Fuses	
3.3 TRACTOR	
Drive System	Hydraulic Drive with Two Variable Displacement Pumps and Two
	Cast-iron High Torque Motors
Hydrostatic Pumps	Two Hydro-Gear ™ BDP 10L Pumps with Dump Valves for
	movement without running the engine
Drive Wheel Motors	Two Ross Model MB 15cu. inch Cast-iron High Torque Motors
	Twin Lever Fingertip Steering Control with Individual Control to
	Each Wheel
Parking Brake	Lever Actuated Linkage to Brakes on Both Drive Wheel Axles
Wheels:	-
(2) Front Caster	11 x 4.0-5 Smooth Tires
(2) Drive	23 x 9.5-12 Four-Ply Pneumatic Tubeless, Radius Edge
(1) Rear	
	Two, 3.75 gallon Polyethylene Tanks with Large Fuel Tank filler
	neck and Fuel Gauge Fill Caps
Tire Pressure:	•
Front Caster	25 PSI
Drive	12 PSI
Rear	25 PSI
Seat	



#### 3.3 TRACTOR (CONT'D)

#### -NOTE-

Travel Speed:	
Forward	0 - 8.5 MPH
Reverse	0 - 5.0 MPH

The machine will travel at 8.5 mph for transport purposes. For best cutting performance the forward travel speed should be adjusted depending upon the cutting conditions.

#### 3.4 CUTTER DECK

No. of Blades	3
Width of Cut	42", 48" & 52"
Cutter Blades	Three (3) 16-1/2" (P/N 481997) Marbane Blades
Deck Drive	Belt Driven Manual Clutch Connected to a Drive Shaft to a
	Gearbox on the Cutter Deck
Manual Clutch Type	Manual blade engagement system with engagement lever and
	double v-belt drive
Cutting Height Adjustment	Four Corner Pin Adjustment, 1.5" to 5" in 1/2" increments
Deck Tilt	Manually by Lifting Deck and Engaging Lock Pin
Drive Shaft	Shaft With Two High Speed U-Joints

#### 3.5 GRASS CATCHING SYSTEM

Type	Out-Front Rear Deck Discharge into Blower which discharges
••	the Grass Clippings into a Hopper
Hopper	. 90-Gallon Molded Plastic with Osillating Discharge Chute
Discharge Blower	12" Diameter
Side Discharge	Extra Wide Discharge Opening on the Left Hand Side with Spring
	Loaded Discharge Chute

#### 3.6 HYDRAULIC SYSTEM

Hydraulic Oil Filter	. 10 Micron Spin-on Element Type
Hydraulic Reservoir	. Nylon: 6 Quart Capacity

#### 3.7 WEIGHTS AND DIMENSIONS

	CCD42 2ECU	CCD40 SECU	CCD 40 27KA
	SCR42-25CH	SCR48-25CH	SCR48-27KA
Length	95.0"	95.0"	95.0"
Overall Width		48.0"	48.0"
Overall Height	44.0"	44.0"	44.0"
Operating Weight	1285 lbs.	1260lbs.	1300lbs.
	SCR52-25CH	SCR52-27KA	
Length	95.0"	95.0"	
Overall Width	52.0"	52.0"	
Overall Height	44.0"	44.0."	
Operating Weight	1300lbs.	1350lbs.	

#### 3.8 PRODUCTIVITY

The following chart will aid you in determining how many acres your Scag mower will cut per day.

The chart is an estimate based on 8 hours per day cutting time at 4 MPH with an allowance for overlap and turns.

**Cutting Width:** 42" 48" 52"

**Acres Per Day:** 20 21 23



#### **OPERATING INSTRUCTIONS**

# **ACAUTION:**

Do not attempt to operate this mower unless you have read this manual. Learn the location and purpose of all controls and instruments before you operate this mower.

### 4.1 CONTROLS AND INSTRUMENT IDENTIFICATION

Before operating the mower, familiarize yourself with all mower and engine controls. Knowing the location, function and operation of these controls is important for safe and efficient operation of the mower.

**1. Ignition Switch (Figure 4-1).** Used to start the engine and has three positions; OFF, ON, and START.

- 2. Mower Deck Control (Figure 4-1). Used to engage and disengage the mower drive system. Pushing the lever forward will engage the deck drive. Pulling the lever back will disengage the deck drive.
- **3.** Engine Choke Control (Figure 4-1). Used to start a cold engine.
- **4.** Engine Throttle Control (Figure 4-1). Used to control the engine speed. Pushing the lever forward increases engine speed. Pulling the lever back decreases engine speed. Full back position is the IDLE position. Full forward is the cutting position.
- 5. Ammeter (Figure 4-1). Indicates the condition of the charging system. When the engine is running the needle should be at the positive end of the meter. If the needle is on the negative end of the meter, this indicates a discharge condition and the machine should be taken in for service.

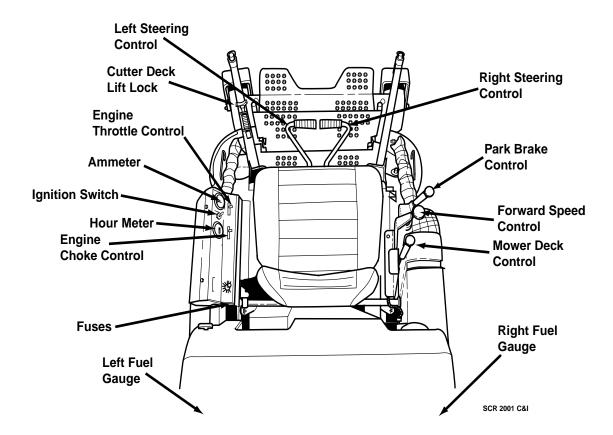
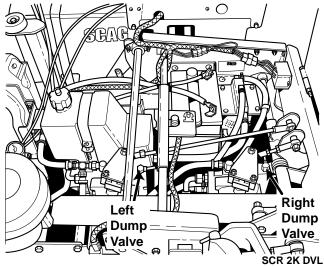


Figure 4-1 Controls and Instruments



- 6. Hour Meter (Figure 4-1). Indicates the number of hours the engine has been operated. It operates whenever the ignition switch key is in the ON position. It can be used to keep track of maintenance intervals and the amount of time required to perform various tasks.
- **7. Fuse Holders (Figure 4-1).** Two 20-amp fuses protect the mower's electrical system. To replace fuses, pull fuse out of the socket and install a new fuse.
- **8.** Left Steering Control (Figure 4-1). Used to control the mower's left wheel when traveling forward or reverse.
- **9. Right Steering Control (Figure 4-1).** Used to control the mower's right wheel when traveling forward or reverse.
- 10. Parking Brake Control (Figure 4-1). Used to engage and disengage the parking brakes and also used to lock the cutter deck from tilting up too high while traveling. Pull the lever back and lock in place to engage the parking brakes. Push the lever forward to disengage the parking brakes and engage the deck tilt lock.
- **11. Forward Speed Control (Figure 4-1).** Used to control the mower's forward speed. Push the lever forward to increase the forward speed.
- **12. Fuel Tank Gauges (Figure 4-1)**. Indicates the amount of fuel in the fuel tanks.
- 13. Dump Valve Control Levers (Figure 4-2).

  Located under the seat, on the hydraulic pumps, used to "free-wheel" the mower. Rotating the levers clockwise until they stop allows the unit to move under hydraulic power. The levers must be in this position during operation of the mower. Rotating the levers counterclockwise, one turn, allows the mower to be moved by hand (free-wheeling).



**Figure 4-2 Dump Valves Location** 

**14. Blower Belt Release** (**Figure 4-3**). This lever is used to release the belt tension and allow the blower belt to be removed when the cutter deck is setup as either a mulching or a side discharge deck.

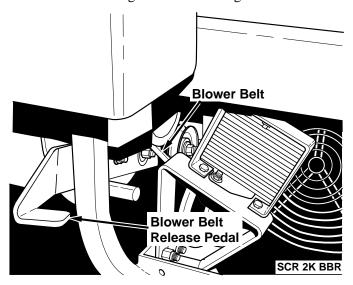


Figure 4-3 Blower Belt Release

#### **4.2 SAFETY INTERLOCK SYSTEM**

The mower is equipped with a safety interlock system that prevents the engine from starting unless the deck drive is disengaged and the speed control is in neutral and the parking brake is engaged. The interlock system shuts off the engine if the operator leaves the seat with the speed control in the neutral position and the parking brake is not engaged and/or the cutter blades are engaged. It will also shut the engine off if the cutter deck drive is engaged and the hopper is raised.



### **AWARNING:**

Never operate the mower with the interlock system disconnected or malfunctioning. Do not disengage or bypass any switch; injury to yourself and others or property damage could result.

# 4.3 INITIAL RUN-IN PROCEDURES (First Day of Use or Approximately 10 Hours)

- 1. Check all belts for proper alignment and wear after the initial 2, 4, and 8 hours of operation. The belt systems are self adjusting therefore tension adjustment is not necessary.
- 2. Change the engine oil and oil filter after the first 5 hours of operation. (See Section 7.4.)
- 3. Check hydraulic oil level in reservoir. (See Section 7.3.)
- 4. Check for loose hardware. Tighten as needed.
- 5. Check interlock system for proper operation. (See Section 4.2.)
- 6. Check tire pressure. Inflate tires if necessary.

#### 4.4 STARTING THE ENGINE

# ACAUTION:

DO NOT USE STARTING FLUIDS. Use of starting fluids in the air intake system may be potentially explosive or cause a "runaway" engine condition that could result in engine damage and/or personal injury.

- 1. Be sure the fuel shutoff valve, located on top of the left fuel tank, is completely open. (See Section 7.4)
- 2. Sit in the operator's seat and place the speed control in the neutral position and engage the parking brake.

- 3. If the engine is cold, adjust the engine choke as needed.
- 4. Adjust engine throttle control to about half engine speed.
- 5. Turn the ignition key to the START position and release the key as soon as the engine starts. Do not hold the key in the START position for more than 15 seconds at a time. Allow at least 60 seconds between each cranking attempt to prevent overheating of the starter motor. Prolonged cranking can damage the starter motor and shorten battery life.
- 6. Allow engine to warm before operating the mower.

#### 4.5 GROUND TRAVEL AND STEERING

#### -IMPORTANT-

If you are not familiar with the operation of a machine with lever steering and/or hydrostatic transmissions, the steering and ground speed operations should be learned and practiced in an open area, away from buildings, fences, or obstructions. Practice until you are comfortable with the handling of the machine before attempting to mow. Learn the operation on flat ground before operating on slopes.

#### -IMPORTANT-

Start practice with a slow engine speed and slow forward travel.

Do not push the steering control levers forward when traveling forward. They are only used to steer the mower and to travel in reverse by pulling back on the levers.

Learn to operate the mower with the left hand on the steering levers and the right hand on speed control as shown in Figure 4-4. Using both hands on the steering levers often causes overcontrol.

Learn to feather the steering controls to obtain a smooth operating action. Jerky movements tend to place extreme force on the drive pumps and axles, as well as damage the lawns.

Practice operating the mower until you can make it go exactly where you are aiming.



In case of an emergency, such as loss of control, stop the mower's movement by quickly pulling the forward speed control lever to the neutral position.

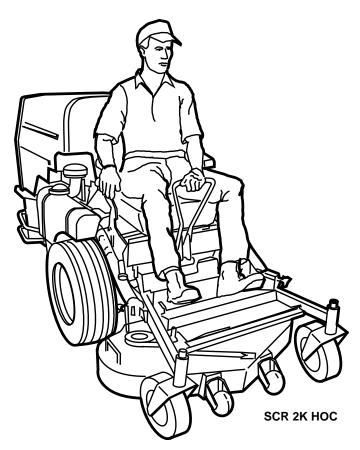
#### **Forward Travel**

#### -NOTE-

Use one hand on both steering levers as shown in Figure 4-4 to minimize overcontrol.

To travel forward with the mower, move the speed control lever forward. Do not push the steering control levers forward as they are used only for steering the mower left or right. When the speed control is moved forward, the mower will travel forward at the speed the control lever is set at. To increase the speed, push the control lever forward and to decrease the speed, pull the control lever back. It is not necessary to hold the speed control in position, since a friction system holds the lever in position.

To stop the forward travel, pull the speed control lever back to the neutral position.



**Figure 4-4 Hands On Controls** 

To steer the mower left while traveling forward, pull the left steering lever back. The further the lever is pulled back, the sharper the mower will turn left.

To steer the mower right while traveling forward, pull the right steering control lever back. The further the lever is pulled back, the sharper the mower will turn right.

#### -NOTE-

Smooth operation of the steering levers will produce a smooth mower operation. While learning the operation of the steering controls, keep the travel speed low.

#### -IMPORTANT-

Do not travel forward over a curb. The mower will hang up on the curb. Tilt the deck and travel backwards over the curb at a 45 degree angle. (See section 4.15 for cutter deck tilting instructions)

#### **Reverse Travel**

# ACAUTION:

Before backing up, observe the rear for persons and obstructions. Clear the area before backing up. Possible injury or property damage could occur.

### ACAUTION:

Disengage power to the mower before backing up. Do not mow in reverse unless absolutely necessary and then only after observation of the entire area behind the mower.

To travel in reverse, pull both handles all the way back. Keep the travel speed low while traveling in reverse.

#### -NOTE-

The mower will not travel straight in reverse. Slight adjustments must be made using the steering controls.



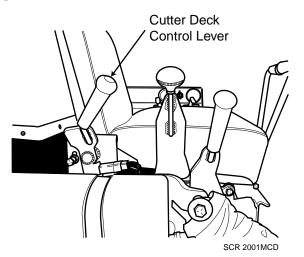
To steer left while traveling in reverse, allow the left steering control lever to move forward. The further the control is allowed to move forward, the sharper the mower will turn left.

To steer right while traveling in reverse, allow the right steering control lever to move forward. The further the control is allowed to move forward, the sharper the mower will turn right.

To stop the reverse travel, place the speed control lever in the neutral position and allow the steering control levers to return to the neutral position. If the mower is to be parked, engage the parking brake and remove the ignition key.

# 4.6 ENGAGING THE DECK DRIVE (CUTTER BLADES)

- 1. Set the throttle at about 3/4 speed. Do not attempt to engage the deck drive at high speed use only moderate engine speed when engaging the deck drive.
- 2. Engage the deck drive by pushing the Cutter Deck Control Lever forward, (Figure 4-6) to the engage position.



**Figure 4-5 Cutter Deck Control Lever** 

- 3. To disengage the deck drive, pull back the Cutter Deck Control Lever to the disengage position.
- 4. Always operate the engine at full throttle to properly maintain cutting performance. If the engine starts to lug down, reduce the forward speed and allow the engine to operate at maximum RPM.

#### 4.7 HILLSIDE OPERATION



To minimize the possibility of overturning, the least dangerous method of operating on hills and terraces is to travel vertically up and down the slope, not horizontally along the slope. Avoid any unnecessary turns and travel at reduced speed.

- 1. The mower has been designed for good traction and stability under normal mowing conditions. However, caution must be used when traveling on slopes, especially when the grass is wet. Wet grass reduces traction and steering control.
- 2. To inhibit tipping or loss of control, do not start or stop suddenly, avoid unnecessary turns and travel at reduced speed.
- 3. Keep tires properly inflated.
- 4. Always travel up or down the slope, whenever possible; NEVER across the slope. (See Figures 4-6 and 4-7.)

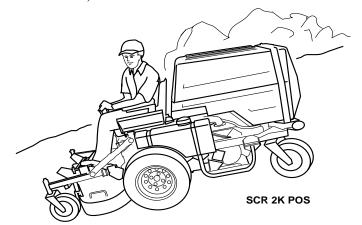


Figure 4-6 Proper Operation on a Slope



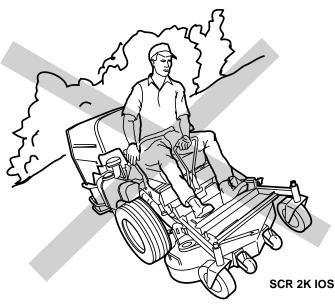


Figure 4-7 Improper Operation on a Slope

#### 4.8 PARKING THE MOWER

- 1. Place the speed control in the neutral position.
- 2. Slow the engine to idle speed.
- 3. Engage the parking brake.
- 4. Turn the ignition key to the OFF position and remove the key.

#### **4.9 AFTER OPERATION**

1. Wash the entire mower after each use. Do not use high pressure spray or direct the spray onto electrical components.

#### -IMPORTANT-

Do not wash a hot or running engine. Cold water will damage the engine. Use compressed air to clean the engine if it is hot.

- 2. **Keep the entire mower clean** to inhibit serious heat damage to the engine or hydraulic oil circuit.
- 3. Check the drive belts for proper alignment, correct if necessary. Remove any debris build up.

- 4. Fill the fuel tank with fresh, clean fuel at the end of every day of operation.
- 5. Check the tire pressure. Inflate tires if necessary.

### 4.10 HOPPER, MULCH or SIDE DISCHARGE OPERATION

When mowing with the cutting deck setup for rear discharge into the hopper (Figure 4-9), the blower belt must be installed. A control lever located on the left side of the tractor (Figure 4-8) will release tension on the idler pulley to allow the belt to be installed (grass catching operation) or removed (mulching or side discharge operations). The cutter deck must also be adapted to the type of cutting that the operator is attempting to perform.

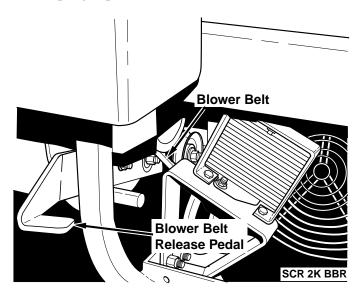


Figure 4-8 Blower Belt Release

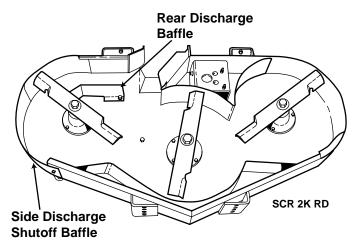


Figure 4-9 Baffles for Rear Discharge



#### **Grass Catching Operation**

# ACAUTION:

Never leave grass clippings in the hopper after mowing. Wet or damp clippings will generate heat as they decompose which may cause spontaneous combustion to occur.

1. With the hopper lowered, engage the deck drive. When the deck drive is engaged, the grass delivery spout, which is designed to distribute the grass clippings through the inside of the hopper, will begin to oscillate.

#### -NOTE-

The mower has an interlock switch that will prevent the mower from starting if the hopper is in the raised position. This interlock switch will also shut the engine off if the hopper is raised while the engine is running and the deck drive is engaged.

- 2. Proceed to mow the lawn until the hopper is full. If your mower is not equipped with the optional hopper fill alarm to tell you when the hopper is full, check the hopper frequently when first using the grass catcher. After operating with the grass catcher for awhile, experience will tell you when the hopper is full.
- 4. When dumping the hopper into a disposal area:
  - A. Disengage the deck drive.



Never operate the grass catcher with the hopper back door open. Objects can be thrown out the spout of the hopper with a force that can cause injury to bystanders or property damage.

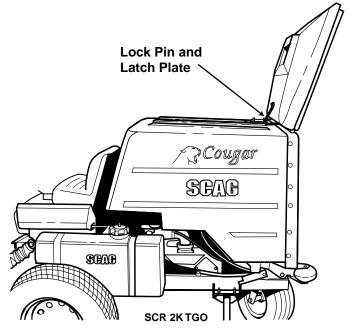


Figure 4-10 Tailgate Operation

B. Raise the tailgate until the lock pin on top of the hopper engages with the latch on the tailgate (Figure 4-10).

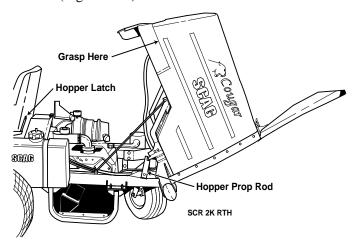


Figure 4-11 Raising The Hopper

- C. Stand off to side of the hopper. Unhook the hopper latch and raise the hopper by placing a hand in the hand hole at either bottom front side of the hopper (Figure 4-11) and then carefully lift the hopper until it is in its upright position. When serivice is needed under the hopper, rotate the hopper prop rod upward until it contacts the hopper frame. This will prevent the hopper from moving until the service is complete.
- D. Carefully lower the hopper and hook the hopper latch.



E. Release the latch holding the tailgate and then lower the tailgate.

#### **Side Discharge Operation**

### ACAUTION:

The side discharge deck can throw objects with great force. Do not stand in front of discharge chute when the cutter deck is engaged. Keep bystanders clear from the area while mowing.

When mowing, never discharge toward bystanders or buildings. Do not allow anyone near the machine while in operation.

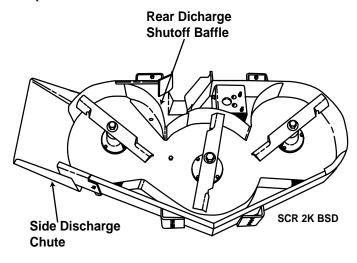


Figure 4-12 Baffles for Side Discharge

# WARNING DO NOT OPERATE WITHOUT DISCHARGE CHUTE, MULCHING KIT, OR ENTIRE GRASS CATCHER INSTALLED 482165

- 1. Place the proper baffles in the cutter deck and install the side discharge chute (Figure 4-12).
- 2. Release the tension from the blower belt and remove the blower belt. (Figure 4-8, Page 15).
- 3. Engage the deck drive.
- 4. Proceed to mow the lawn.

#### **Mulching Operation**

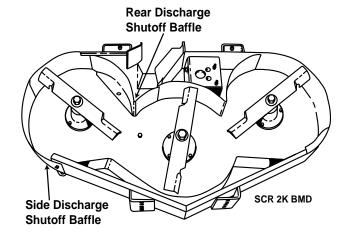


Figure 4-13 Baffles for Mulching

- 1. Place the proper baffles in the cutter deck for mulching operation (Figure 4-13).
- 2. Release the tension from the blower belt and remove the blower belt. (Figure 4-8, Page 15).
- 3. Engage the deck drive.
- 4. Proceed to mow the lawn.

#### 4.11 REMOVING CLOGGED MATERIAL



#### ROTATING BLOWER BLADES

NEVER PUTYOUR HANDS INTO THE BLOWER DIS-CHARGE CHUTE FOR ANY REASON! Shut off the engine and remove the key and only then use a stick or similar object to remove material if clogging has occurred.

 If either blower discharge chute becomes clogged, shut off the engine and remove the ignition key.
 Using a stick or similar item, dislodge the clogged material. Then resume normal mowing.



### 4.12 MOVING MOWER WITH ENGINE STOPPED

To "free-wheel" or move the mower around without the engine running, place the dump valve handle in the FREE-WHEEL position (Figure 4-2, Page 11). Disengage the parking brake and move the mower by hand. The lever must be returned to the DRIVE position to drive the mower.

#### 4.13 RECOMMENDATIONS FOR MOWING

- Do not mow with dull blades. A dull blade will tear grass, resulting in poor lawn appearance and requiring extra power.
- Direct the side discharge away from sidewalks or streets to minimize cleanup of clippings. When mowing close to obstacles, direct the discharge away from the obstacles to reduce the chance of property damage by thrown objects.
- 3. Cut grass when it is dry and not too tall. Do not cut grass too short (cut off 1/3 or less of existing grass for best appearance). Mow frequently.
- 4. Keep mower and discharge system clean.
- 5. When mowing wet or tall grass, mow the grass twice. Raise the mower to the highest setting for the first pass and then make a second pass to the desired height.
- 6. Use a slow travel speed for trimming purposes.
- 7. Operate the engine at or near full throttle for best cutting. Mowing with a lower RPM causes the mower to tear the grass. The engine is designed to be operated at full speed.
- 8. Use the alternate stripe pattern for best lawn appearance. Vary the direction of the stripe each time the grass is mowed to avoid wear patterns in the grass.

#### 4.14 ADJUSTING CUTTING HEIGHT

The mower deck can be adjusted from a height of 1 1/2-inches to 5-inches at 1/2-inch intervals. To adjust the cutting height:

### **A**WARNING:

Do not adjust the cutting height with the mower blades rotating. Shut off the engine and remove the ignition key. Bodily injury could occur from the rotating blades.

1. Shut off the engine and remove the ignition key.

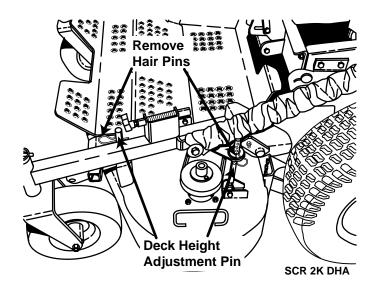


Figure 4-14 Deck Height Adjustment

- 2. Remove the two hairpins from the adjusting pins on one side of the cutter deck (Figure 4-14).
- Lift or lower the deck to the desired cutting height and install the hairpins. A deck height decal is located on the deck as an aid in adjusting the deck to the desired height.
- 4. Repeat the above process on the other side of the cutter deck.



#### **4.15 TILTING THE CUTTER DECK**



Do not tilt the mower deck with the mower blades rotating. Shut off the engine and remove the ignition key. Bodily injury could occur from the rotating blades.

The mower deck can be tilted up for trailering, blade replacement, etc. To tilt the deck up:

1. Shut off the engine, remove the ignition key and engage the park brake.

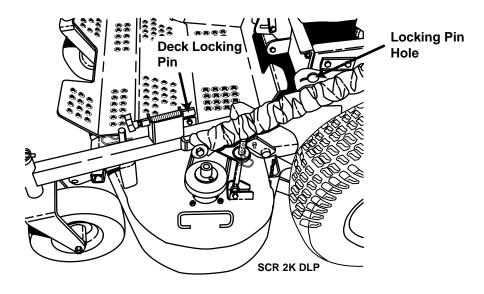


Figure 4-15 Deck Locking Pin

- 2. Lift up on the caster wheel arm until the lock pin engages into the lock pin hole (Figure 4-15).
- 3. To release the deck and lower it to its operating position:
  - A. Lift up on the caster wheel arm while pulling up on the lock pin.
  - B. Carefully lower the deck to the ground.



### TROUBLESHOOTING CUTTING CONDITIONS

CONDITION	CAUSE	CURE
Stringers - Occasional	Low engine RPM	Run engine at full RPM
Blades of Uncut Grass	Ground speed too fast	Slow speed to adjust for conditions
	Wet grass	Cut grass after it has dried out
	Dull blades, incorrect sharpening	Sharpen blades
	Deck plugged, grass accumulation	Clean underside of deck
Width of Deck SGB020	Belts slipping	Adjust belt tension
Streaking - Strips of	Dull, worn blades	Sharpen blades
Uncut Grass in Cutting Path	Incorrect blade sharpening	Sharpen blades
	Low engine RPM	Run engine at full RPM
anunu Kanaani Manuana	Belt slipping	Adjust belt tension
	Deck plugged, grass accumulation	Clean underside of deck
	Ground speed too fast	Slow speed to adjust for conditions
	Wet grass	Cut grass after it has dried out
Width of Deck SGB018	Bent blades	Replace blades
Streaking - Strips of Uncut Grass Between Cutting Paths	Not enough overlapping between rows	Increase the overlap of each pass
Width Width of of Opeck SGB019 Deck		



### TROUBLESHOOTING (CONT'D)

CONDITION	CAUSE	CURE
Uneven Cut on Flat Ground - Wavy	Lift worn from blade	Replace blade
High-Low Appearance, Scalloped Cut, or	Blade upside down	Mount with cutting edge toward ground
Rough Contour	Deck plugged, grass accumulation	Clean underside of deck
	Too much blade angle (deck pitch)	Adjust pitch and level
	Deck mounted improperly	See your authorized SCAG dealer
	Bent spindle area	See your authorized SCAG dealer
Width of Deck SGB020	Dull blade	Sharpen blade
Uneven Cut on Uneven Ground - Wavy Appearance, High-Low Scalloped Cut, or Rough Contour	Uneven ground	May need to reduce ground speed, raise cutting height, and/or change direction of cut
Width of Deck		
Sloping Ridge Across Width of Cutting Path	Tire pressures not equal	Check and adjust tire pressure
Width of Calling Fall	Wheels uneven	Check and adjust tire pressure
	Deck mounted incorrectly	See your authorized SCAG dealer
₩idth of Deck	Deck not level side-to side	Check for level and correct
SGB023		



### TROUBLESHOOTING (CONT'D)

CONDITION	CAUSE	CURE
Scalping - Blades Hitting Dirt or	Low tire pressures	Check and adjust pressures
Cutting Very Close to the Ground	Ground speed too fast	Slow speed to adjust for conditions
the Ground	Cutting too low	May need to reduce ground speed, raise cutting height, change direction of cut, and/or change pitch and level
ANTAINTAINTAINTAINTAINTAINTAINTAINTAINTA	Rough terrain	May need to reduce ground speed, raise cutting height, and/or change direction of cut
	Ground speed too fast	Slow speed to adjust for conditions
Width of Deck OSGB022	Wet grass	Cut grass after it has dried out
Step Cut - Ridge	Blades not mounted evenly	Adjust pitch and level
in Center of Cutting path	Bent blade	Replace blade
	Internal spindle failure	See your authorized SCAG dealer
	Mounting of spindle incorrect	See your authorized SCAG dealer
Width of Deck SGB024		
Slope Cut - Sloping Ridges Across Width	Bent spindle mounting area	See your authorized SCAG dealer
of Cutting Path	Internal spindle failure	See your authorized SCAG dealer
	Bent deck housing	See your authorized SCAG dealer
Width of Deck SGB025		



#### **ADJUSTMENTS**

#### **6.1 PARKING BRAKE ADJUSTMENT**

### **AWARNING:**

Do not operate the mower if the parking brake is not operable. Possible severe injury could result.

The parking brake linkage should be adjusted whenever the parking brake lever is placed in the "ENGAGE" position and the parking brake will not prevent the mower from moving. If the following procedures do not allow you to engage the parking brake properly, contact your Scag dealer for further brake adjustments.

- 1. Position a floor jack under the left side of the machine behind the drive wheel. Raise the machine and support it to prevent it from falling. Block the caster wheels to prevent the machine from moving. Remove the right drive wheel and reinstall (2) lug nuts to hold the hub on.
- 2. With the brake lever in the engaged position, check to see if the lever plunges the brake switch within 1/8" of bottoming out. (See Figure 6-1). To increase the distance, loosen the jam nuts on the parking brake control rod and turn the rod clockwise. To decrease the distance, turn the rod counterclockwise. (See Figure 6-2).

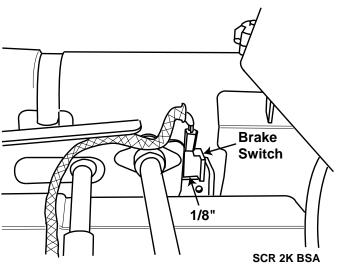


Figure 6-1 Brake Switch

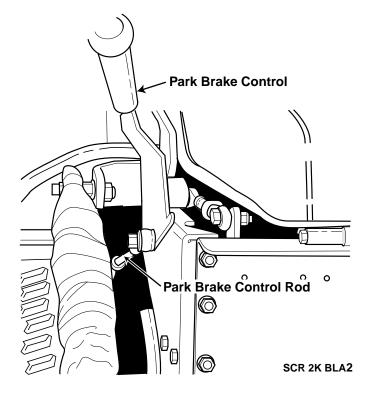


Figure 6-2 Brake Switch Adjustment

- 3. With the brake in the engaged position, check the distance between the lower nut on the brake actuator rod and the spring housing. The distance should be approximately 1/16". (See Figure 6-3).
- 4. Turn the nut at the top of the brake connector link until the 1/16" measurement is achieved and tighten the jam nut at the connector link on the brake actuator rod. (See Figure 6-3).
- 5. Repeat steps 3 and 4 on other side. Replace the drive wheels and test the brake.

#### -NOTE-

If this procedure does not achieve proper brake adjustment, please contact your authorized Scag dealer for diagnosis and repair.



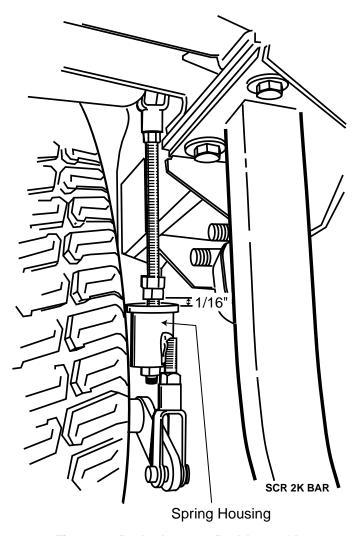


Figure 6-3 Brake Actuator Rod Assembly

#### **6.2 TRAVEL ADJUSTMENTS**

Neutral or tracking adjustments will need to be made if:

- A. The speed control lever is in neutral and the machine creeps forward or backward. (Neutral Adjustment)
- B. The mower pulls to one side or the other when traveling in a forward direction. (Tracking Adjustment).

If the mower creeps forward or backward as indicated in "A" above, the neutral linkages must be adjusted. Start with adjusting the speed control lever and proceed as directed. To correct the tracking of the mower (mower pulls to one side when traveling in a forward direction), adjust the tracking of the mower as described on page 23.

### **ACAUTION:**

Stop the engine and remove the key from the ignition before making any adjustments. Wait for all moving parts to come to a complete stop before beginning work.

### ACAUTION:

The engine and drive unit can get hot during operation causing burn injuries. Allow engine and drive components to cool before making any adjustments.

#### **Neutral Adjustment**

#### -IMPORTANT-

Before proceeding with this adjustment, be sure that the tire pressure is correct, that the caster wheels turn freely, and that the transmission drive belt tension spring is not broken.

- 1. Jack up the machine enough to lift the drive wheels and block securely.
- 2. Pull the speed control lever into the neutral position.
- 3. Pull the park brake lever into the fully engaged position.
- 4. Adjust the speed control lever turnbuckle until the speed control lever contacts the park brake lever and tighten the jam nuts. (See Figure 6-4).

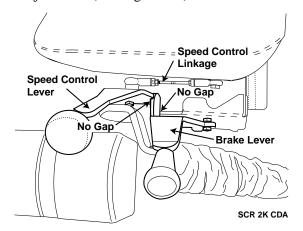


Figure 6-4 Speed Control Lever

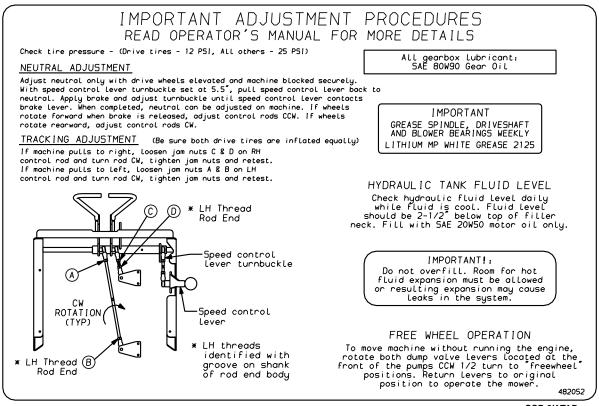


Figure 6-5 Drive linkage

SCR 2K TAD

- 5. Start the engine and disengage the parking brake.
- 6. Loosen jam nuts C and D (See Figure 6-5) on the right side. Slowly rotate the control rod until the right drive wheel starts to creep forward. When the wheel starts to creep forward, stop the movement and turn the control rod back until the wheel starts to creep in reverse. When the wheel starts to creep in reverse, stop the movement and turn the control rod to the center point between forward and reverse motion (Figure 6-4) and tighten the jam nuts.
- 7. Loosen jam nuts A and B (See Figure 6-5) on the left side. Slowly rotate the control rod until the left drive wheel starts to creep forward. When the wheel starts to creep forward, stop the movement and turn the control rod back until the wheel starts to creep in reverse. When the wheel starts to creep in reverse, stop the movement and turn the control rod to the center point between forward and reverse motion (Figure 6-5) and tighten the jam nuts.
- 8. Remove the blocking and lower the drive wheels to the ground.

 When the speed control lever is actuated, the mower should travel in a straight line. If it does not travel straight, perform the Tracking Adjustment procedures.

#### **Tracking Adjustment**

#### -IMPORTANT-

Before proceeding with this adjustment, be sure that the tire pressure is correct, that the caster wheels turn freely, and that the transmission drive belt tension spring is not broken.

The mower tracking should be adjusted if the machine does not travel in a straight line during forward travel. Preform the neutral adjustment before proceeding with the tracking adjustment.

- 1. If the machine pulls to the right, loosen the jam nuts on the right control rod and turn the rod slightly clockwise, tighten the jam nuts and retest.
- 2. If the machine pulls to the left, loosen the jam nuts on the left control rod and turn the rod slightly clockwise, tighten the jam nuts and retest.



#### **Cutter Deck Engagement Belt Adjustment**

This adjustment should be made after the initial break in (first 8 Hours of operation) and checked every 40 hours thereafter.

- 1. Check the tension on the belt. (See Figure 6-6). There should be 1/2" deflection with 10lbs. of force at the longest span between pulleys.
- 2. To increase or decrease the belt tension, loosen the jam nuts on the control rod and turn until the proper belt tension is achieved. (See Figure 6-6)

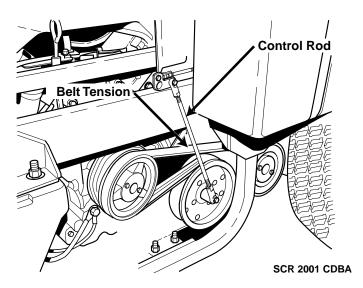


Figure 6-6 Engagement Belt Adjustment

#### **Steering Handle Adjustment**

The steering handles should be positioned in line with each other for easy one-handed control. (See Figure 6-7). The handles can then be adjusted forward or backwards to accommodate the operator.

- 1. Shut off the mower's engine and engage the parking brake.
- 2. Loosen the two bolts for each steering handle and pivot the handles forward or back as desired.
- 3. Keep the handles aligned and tighten the bolts.

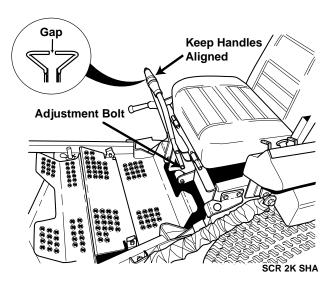


Figure 6-7 Steering Handle Adjustment

4. Maintain gap between steering handles. If gap does not exist, contact your authorized Scag service center.

### 6.3 THROTTLE CONTROL AND CHOKE ADJUSTMENT

These adjustments must be performed by your Scag dealer to ensure proper and effecient running of the engine. Should either need adjustment, contact your authorized Scag service center.



Before removing any guards, shut the engine off and remove the ignition key.

#### 6.4 BELT ADJUSTMENT

All drive belts and cutter deck belts are spring loaded and self-tensioning. The belts should be checked periodically for proper alignment and wear.

#### 6.5 BELT ALIGNMENT

Belt alignment is important for proper performance of your Scag mower. If you experience frequent belt wear or breakage, see your authorized Scag service center for belt adjustment.



#### **6.6 CUTTER DECK ADJUSTMENTS**

The mower deck can be adjusted from a height of 1-1/2-inches to 5-inches at 1/2-inch intervals. To adjust the cutting height:



### **WARNING:**

Do not adjust the cutting height with the cutter blades rotating. Shut the engine off and remove the key from the ignition. Bodily injury could occur from the rotating blades.

- 1. Shut off the engine and remove the key from the ignition.
- 2. Remove the hairpins from the adjusting pins on one side of the cutter deck. (See Figure 6-8).
- 3. Lift or lower the deck to the desired cutting height by using the handles supplied on the cutter deck. (See Figure 6-8). Reinstall the hairpins at the desired cutting height. A deck height decal is located on the deck mounting frame as an aid in adjusting the deck to the desired height.
- 4. Repeat the above process for the other side of the cutter deck.

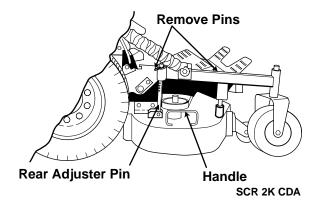


Figure 6-8 Cutter Deck Adjustment

### **WARNING:**

NEVER engage the cutter deck without the belt cover in place.

5. Cutter deck pitch is adjusted by loosening the locknut on each of the front cutter deck height adjuster pins and turning the pins until 1/4" pitch (front edge of cutter deck is 1/4" lower than the rear edge of the cutter deck) is achieved. Tighten the locknuts securely once the proper adjustment has been set.



### **MAINTENANCE**

#### 7.1 MAINTENANCE CHART - RECOMMENDED SERVICE INTERVALS

HOURS								
Break-In (First 10)	8	40	100	200	500	Procedure	Comments	
X						Check all hardware for tightness		
X						Check hydraulic oil level See paragraph 7.3		
X						Check all belts for tightness See paragraph 7.8		
X (First 5)						Change engine oil and filter	See paragraph 7.4	
	X					Fill fuel tank before starting	Use unleaded gasoline with a minimum octane rating of 87	
	X					Check engine oil level	See paragraph 7.4	
	X					*Clean mower	See paragraph 7.14	
	X					Check condition of blades	See paragraph 7.9	
	X					Apply grease to fittings	See paragraph 7.2	
	X					Clean screen in hopper	See paragraph 7.11	
	X					*Check/clean air intake	See paragraph 7.6	
	X					Check tire pressure	See paragraph 7.10	
		X				Check battery electrolyte level, clean battery posts and cables	See paragraph 7.7	
		X				Check belt	See paragraph 7.8	
			X			Apply grease to fittings	See paragraph 7.2	
			X			Change engine oil	See paragraph 7.4	
			X			*Clean air cleaner element	See paragraph 7.6	
			X			Check engine belts for wear	See paragraph 7.8	
			X			Check lubricant in gearboxes	See paragraph 7.13	



#### MAINTENANCE CHART - RECOMMENDED SERVICE INTERVALS (CONT'D)

HOURS								
Break-In (First 10)	8	40	100	200	500	Procedure	Comments	
				X		Apply grease to fittings	See paragraph 7.2	
				X		Check hardware for tightness		
				X		Change engine oil filter	See paragraph 7.4	
				X		Check hydraulic oil level	See paragraph 7.3	
					X	Replace engine fuel filter	See paragraph 7.5	
					X	Drain hydraulic system and replace hydraulic oil	See paragraph 7.3 Use SAE 20W50 Motor Oil	
					X	Replace hydraulic oil filter	See paragraph 7.3	
					X	Replace power unit gearbox lubricant	See paragraph 7.13	
					X	Replace lubricant in cutter deck gear boxes	See paragraph 7.12	

<sup>\*</sup> Perform these maintenance procedures more frequently under heavy load, extreme dusty or dirty conditions.

#### 7.2 LUBRICATION

# GREASE FITTING LUBRICATION CHART (SEE FIGURE 7-1)

		LUBRICATION		NO. OF
	LOCATION	INTERVAL	LUBRICANT	PLACES
1	Brake Linkage	100 Hours/Bi-Weekly	Chassis Grease	2
2	Caster Wheel Pivot	100 Hours/Bi-Weekly	Chassis Grease	2
3	Caster Wheel Bearings	100 Hours/Bi-Weekly	Chassis Grease	2
4	Cutter Deck Pivots	100 Hours/Bi-Weekly	Chassis Grease	2
5	Brake Lever	100 Hours/Bi-Weekly	Chassis Grease	1
6	Rear Wheel Bearings	100 Hours/Bi-Weekly	Chassis Grease	1
7	Cutter Deck Drive Shaft	50 Hours/Bi-Weekly	Chassis Grease	3
8	Steering Control Levers and Linkage	100 Hours/Bi-Weekly	Chassis Grease	4
9	Cutter Deck Spindles	40 Hours/Weekly	+Lithium MP White Grease 2125	3
10	Blower Bearing	8 Hours/Daily	+Lithium MP White Grease 2125	1
11	Cutter Deck Engagement Lever	40 Hours/Weekly	Chassis Grease	1
12	Elbow Pivot (Inside Hopper)	40 Hours/Weekly	Chassis Grease	1



+ Compatible Greases: Mobilix #2 found at Mobil Service Stations

Ronex MP found at Exxon Service Stations

Super Lube MEP #2 & Super Stay-M #2 found at Conoco Stations

Shell Alvania #2 found at Shell Service Stations

Lidok EP #2 found at industrial shops

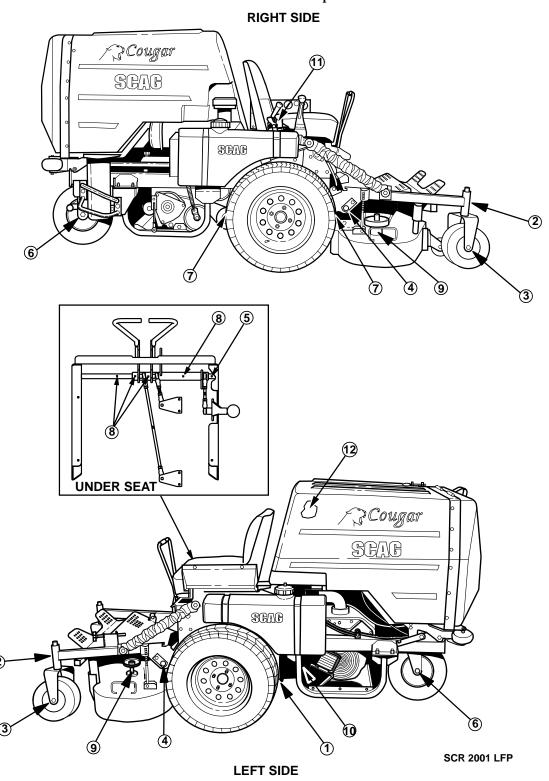


Figure 7.1 Lubrication Fitting Points



#### 7.3 HYDRAULIC SYSTEM

#### A. Checking Hydraulic Oil Level

The hydraulic oil level should be checked after the first 10 hours of operation. Thereafter, check the oil after every 200 hours of machine operation or monthly, whichever occurs first.

#### -IMPORTANT-

If the oil level is consistently low or leaks are noticed, check for leaks and correct immediately.

- Wipe dirt and contaminants from around the reservoir cap. Remove the cap from the hydraulic oil reservoir.
- 2. Visually check the level of hydraulic oil. Hydraulic oil must be at least 2-1/4" inches from top of the filler neck. If the level cannot be determined visually, use a clean tape measure to check the level. If the fluid is low, add 20W50 motor oil. DO NOT overfill; (overfilling the oil reservoir may cause oil seepage).
- 3. Clean the fill cap and install it onto the reservoir.

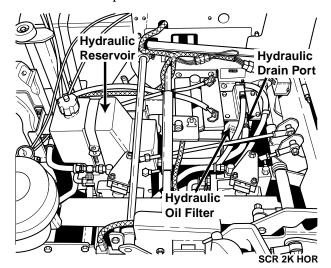


Figure 7-2 Hydraulic Oil Reservoir

#### **B. Changing Hydraulic Oil**

The hydraulic oil should be changed after every 500 hours or annually, whichever occurs first. The oil should also be changed if the color of the fluid has become black or milky.

A black color and/or a rancid odor usually indicates possible overheating of the oil, and a milky color usually indicates water in the hydraulic oil.

#### -Note-

The hydraulic oil should be changed if you notice the presence of water or a rancid odor to the hydraulic oil.

- 1. Park the mower on a level surface and stop the engine.
- 2. Place a suitable container under the hydraulic oil filter. Remove the cap from the tee installed in the hydraulic oil filter head. (Figure 7-2). Allow the fluid to drain into the container and properly discard it.
- 3. Remove the oil filter element (Figure 7-2) and properly discard it. Fill the new filter with clean oil and install the filter. Hand tighten only.
- 4. Install the cap onto the tee and be sure it is tight.
- 5. Remove the fill cap from the reservoir and fill the reservoir to 2-1/4" inches from the top of the filler neck with 20W50 motor oil.
- 6. Replace the reservoir fill cap.
- Start the engine and drive forward and backward for two minutes. Check the oil level in the reservoir. If necessary, add oil to the reservoir.

#### 7.4 ENGINE OIL

#### A. Checking Engine Crankcase Oil Level

The engine oil level should be checked after every 8 hours of operation or daily as instructed in the Engine Operator's Manual furnished with this mower.



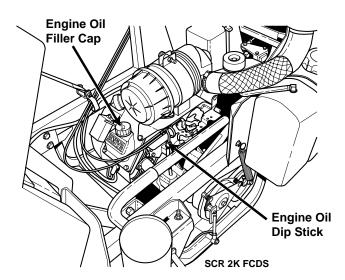


Figure 7-3 Engine Fill Cap and Dip Stick

#### **B. Changing Engine Crankcase Oil**

After the first 5 hours of operation, change the engine crankcase oil and replace the oil filter. Thereafter, change the engine crankcase oil after every 100 hours of operation or bi-weekly, whichever occurs first. Refer to the Engine Operator's Manual furnished with this mower for specific instructions.

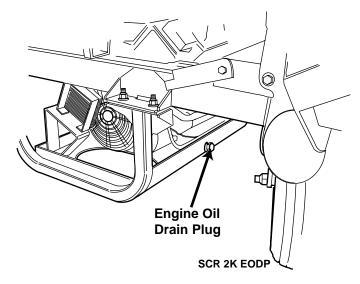


Figure 7-4 Engine Oil Drain Plug

#### C. Changing Engine Oil Filter

After the first 5 hours of operation, replace the engine oil filter. Thereafter, replace the oil filter after every 200 hours of operation or every month, whichever occurs first. Refer to Engine Operator's Manual for specific instructions.

#### 7.5 ENGINE FUEL SYSTEM



To avoid injury from burns, allow the mower to cool before removing the fuel tank cap and refueling.

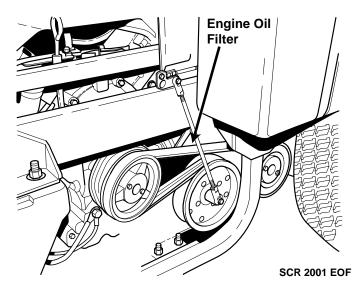


Figure 7-5 Engine Oil Filter

#### A. Filling the Fuel Tank

Fill the fuel tank at the end of each operating day to within 1 inch below the filler neck. Do not overfill. Use clean, fresh unleaded gasoline with a minimum octane rating of 87.

#### B. Replacing In-Line Fuel Filter Element

The in-line fuel filter (Figure 7-6) should be replaced after every 500 hours of operation or annually, whichever occurs first.

1. Close the shutoff valve. Remove the two clamps securing the fuel filter to the fuel hose. Remove the fuel filter.



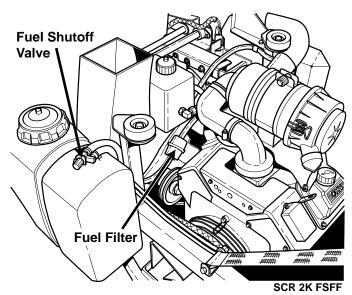


Figure 7-6 Fuel Shutoff and Fuel Filter

2. Install a new fuel filter. Be sure it is installed in the proper direction. Secure to the fuel hose using the two clamps. Wipe up any spilled gasoline and dispose of rags in an approved container.

#### 7.6 ENGINE AIR CLEANER

#### A. Cleaning and/or Replacing Air Cleaner Element

For any air cleaner, the operating environment dictates the air cleaner service periods. Inspect and clean the air cleaner element after every 100 hours of operation or biweekly, whichever occurs first and replace the element if required.

#### -NOTE-

In extremely dusty conditions it may be necessary to check the element once or twice daily to prevent engine damage.

- Remove the wing nut securing the air cleaner cover to the engine. Remove the air cleaner cover and set aside.
- 2. Remove the nut securing the clamping plate and the air cleaner to the engine. Remove the clamping plate and set aside. Remove the air cleaner and inspect.
- 3. Clean or replace the air cleaner and foam precleaner as necessary.

4. Replace the air cleaner after six cleanings or after every 500 hours of operation or annually, whichever occurs first.

#### 7.7 BATTERY

# A. Checking Electrolyte Level and Cleaning Battery

After every 40 hours of operation or weekly, whichever occurs first, check the electrolyte level in the battery and clean the battery and connections. Dirt and fluid on the top of the battery can cause the battery to discharge. Corrosion of the battery terminals or loose connections will cause poor battery performance.

### **AWARNING:**

Lead-acid batteries produce flammable and explosive gases. To avoid personal injury when checking, testing or charging batteries, DO NOT use smoking materials near batteries. Keep arcs, sparks and flames away from batteries. Provide proper ventilation and wear safety glasses.

### **AWARNING:**

Electric storage battery fluid contains sulfuric acid which is POISON and can cause SEVERE CHEMICAL BURNS. Avoid contact of fluid with eyes, skin, or clothing. Use proper protective gear when handling batteries. DO NOT tip any battery beyond 45° angle in any direction. If fluid contact does occur, follow first aid suggestions below.



### **AWARNING:**

#### **BATTERY ELECTROLYTE FIRST AID**

EXTERNAL CONTACT — Flush with water.

EYES — Flush with water for at least 15 minutes and get medical attention immediately.

INTERNAL — Drink large quantities of water. Follow with Milk Of Magnesia, beaten egg, or vegetable oil. Get medical attention immediately. In case of internal contact, DO NOT give fluids that would induce vomiting.

- 1. Tilt the seat forward to access the battery.
- 2. Remove the battery cell caps. Visually inspect electrolyte level in the cells. If electrolyte is below the bottom of vent well, fill with clean distilled water to the bottom of vent wells (1/4 to 1/2 inch above the plates). Install the battery cell caps.

#### -IMPORTANT-

Do not overfill the battery. Electrolyte will overflow through the vent tube onto parts of the machine, resulting in severe corrosion.

- 3. Clean the cable ends and battery posts with steel wool or a wire brush. Use a solution of baking soda and water to clean the battery. Do not allow the solution to enter the battery cells.
- 4. Tighten the cable connections securely and apply a light coat of silicone dielectric grease to the terminal connections to prevent corrosion.

#### **B.** Charging the Battery

Refer to the battery charger's manual for specific instructions.

Under normal conditions the engine's alternator will have no problem keeping a charge on the battery. If the battery has been completely discharged for a long period of time, the alternator may not be able to recharge the battery, and a battery charger will be required.

**DO NOT** charge a frozen battery. It may explode and cause injury. Let the battery warm before attaching a charger.

Whenever possible, remove the battery from the mower before charging and make sure the electrolyte covers the plates in all cells.



BATTERIES PRODUCE EXPLOSIVE GASES. Charge the battery in a well ventilated space so gases produced while charging can dissipate.

Charging rates between 3 and 50 amperes are satisfactory if excessive gassing or spewing of electrolyte does not occur or the battery does not feel excessively hot (over 125°F). If spewing or gassing occurs or the temperature exceeds 125°F, the charging rate must be reduced or temporarily stopped to permit cooling.

#### C. Jump Starting

- 1. The booster battery must be a 12 volt type. If a vehicle is used for jump starting, it must have a negative ground system.
- 2. When connecting the jumper cables, connect the positive cable to the positive battery post, then connect the negative cable to the negative battery post.



#### 7.8 DRIVE BELTS

After the first 2, 4, 8 and 10 hours of operation, check for proper tension on all drive belts and check for any damage. Thereafter, check the belt tension after every 100 hours of operation or bi-weekly, whichever occurs first.

1. Check the belts for cracks, tears, and excessive wear. Replace any damaged belts.

#### 7.9 CUTTER BLADES

#### A. Blade Inspection

- 1. Remove the ignition key before servicing the blades.
- 2. Tilt the mower deck and secure in place.

### **AWARNING:**

Never operate the cutter blades with the deck in the raised position because it is hazardous and damage to mower will result.

3. Check the blades for straightness. If the cutter blades appear bent, they will need to be replaced.

### **A**WARNING:

Do not attempt to straighten a bent blade, and never weld a broken or cracked blade. Always replace it with a new blade to assure safety.

 If a blade cutting edge is dull or nicked, it should be sharpened. Remove the blades for sharpening. See "Blade Replacement."

#### -NOTE-

Keep the blades sharp. Cutting with dull blades not only yields a poor mowing job, but slows the cutting speed of the mower and causes extra wear on the engine and the blade drive.

#### B. Blade Sharpening

#### -NOTE-

DO NOT sharpen the blades beyond 1/3 of the width of the blade.

1. Sharpen the cutting edge at the same bevel as the original. See Figure 7-8. Sharpen only the top of the cutting edge to maintain sharpness.

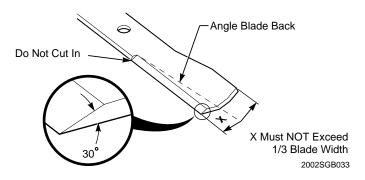


Figure 7-8 Blade Sharpening

 Check the balance of the blade. If the blades are out of balance, vibration and premature wear can occur. See your authorized Scag dealer for blade balancing or special tools, if you choose to balance your own blades.

### C. Blade Replacement

- 1. Remove the ignition key and engage parking brake before replacing the blades.
- 2. Tilt the mower deck and secure in place with lock pin.

#### -IMPORTANT-

Spindle blade bolts are left handed thread.

3. Secure the cutter blades to prevent them from rotating, (use the optional Blade Buddy tool, P/N 9212, to assist in securing the cutter blades), remove the nut from the blade attaching bolt. Remove the cutter blade, bolt and spacer from the spindle shaft.



- 4. To install the new blade, put the flat washer onto the blade bolt and slide the bolt into the hole in the cutter blade.
- 5. Install the spacer onto the blade bolt and insert the belt into the cutter spindle shaft.
- 6. Install the hex nut to the blade bolt at the top of the cutter spindle. Secure the blades from rotating using a Blade Buddy and torque to 75 ft-lbs.

#### **7.10 TIRES**

Check the tire pressures after every 8 hours of operation or daily.

Caster Wheels	25 PSI
Rear Wheel	25 PSI
Drive Wheels	12 PSI

#### **7.11 HOPPER**

The hopper screen should be cleaned after every 8 hours of operation or daily, whichever occurs first. It may be necessary to clean the screen more frequently when cutting wet and/or dirty grass.

- 1. Remove the hopper screen from the hopper.
- 2. Wash the screen using a water hose until all the screen holes are clean.
- 3. Install the cleaned screen in the hopper.

#### -IMPORTANT-

Do not use the hopper with the screen removed. Grass clippings will discharge from the hopper with the screen removed.

#### 7.12 CUTTER DECK GEARBOX

#### A. Checking Lubricant Level

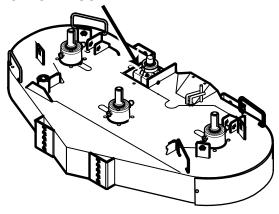
### **ACAUTION:**

Cutter deck gearbox can reach high operating temperatures. Allow cutter deck gearbox to cool before servicing.

The fluid level in the cutter deck gearbox should be checked after every 100 hours of operation or bi-weekly, whichever occurs first.

- 1. Remove the ignition key and engage the parking brake.
- 2. Lift the foot plate up to gain access to the gearbox.
- 3. Clean and remove the check plug from the side of the gearbox. See Figure 7-9. Visually check the fluid level in the plug port. The fluid level must be up to the bottom of the plug port. If the fluid level is low, fill gearbox through the check plug port with EP 80-90 gear oil. Install the check plug and tighten securely.

### GEARBOX FLUID CHECK PLUG



**SCR 2002 GFC** 

Figure 7-9 Gearbox Check Plug

#### **B. Changing Lubricant**

The lubricant in the cutter deck gearbox should be changed after every 500 hours of operation or yearly, whichever occurs first.



- 1. Remove the hair pins and raise the cutter deck to the highest cut position (5").
- 2. Using the caster wheel arm, lift up the cutter deck and secure in place with the lock pin.
- 3. Beneath the cutter deck is an access hole to gearbox drain plug. See Figure 7-10. Clean the area thoroughly and then place a suitable container under the drain plug.

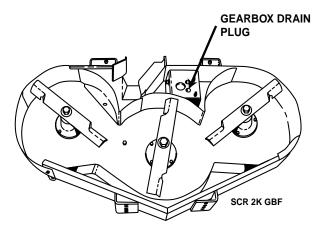


Figure 7-10 Gearbox Drain Plug

- 4. Remove the drain plug and lower the cutter deck over the container to drain the lubricant.
- 5. Using the caster wheel arm, lift up the cutter deck and secure in place with the lock pin. Properly discard the drained fluid.
- 6. Install drain plug and lower the cutter deck.
- 7. Remove the (4) four hair pins and washers from the deck height adjust pins.

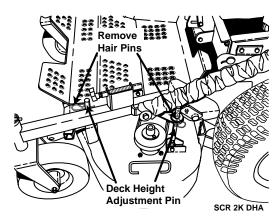


Figure 7-11 Deck Height Pins

- 8. Using the caster wheel arm, lift the cutter deck frame assembly off the cutter deck and secure in place with the lock pin.
- 9. Clean and remove the check plug from the side of the gearbox and fill the gearbox with SAE 80W90 lubricant until fluid is level with the bottom of the plug port. Install check plug.
- 10. Lower the cutter deck frame assembly onto the cutter deck and install the washers and hair pins onto the height adjust pins.

#### 7.13 POWER UNIT GEARBOX

#### A. Checking Lubricant Level

- 1. Remove the ignition key and engage the parking brake.
- 2. Lift the seat to gain access to the gearbox dipstick. See Figure 7-12.

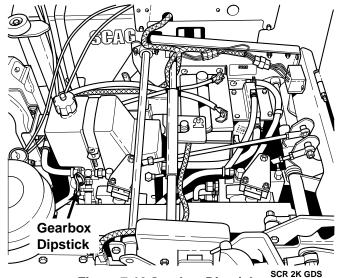


Figure 7-12 Gearbox Dipstick

3. Remove and clean the dipstick. Visually check the fluid level on the dipstick. The fluid level must be between the (2) two marks on the dipstick. See Figure 7-13. If the fluid level is low, fill the gearbox through the dipstick tube with EP 80-90 gear oil. Install the dipstick after proper fluid level has been achieved.





Figure 7-13 Fluid Level

#### **B. Changing Lubricant**

The lubricant in the power unit gearbox should be changed after every 500 hours of operation or yearly, whichever occurs first.

- 1. Beneath the power unit is an access hole to the gearbox drain plug. Clean the area thoroughly and place a suitable container under the drain plug.
- 2. Remove the drain plug and drain the lubricant into the container and properly discard.
- 3. Reinstall the drain plug and add EP-80/90 lubricant through the dipstick tube. Approximately 6 ounces of fluid will be needed to fill the gearbox. Follow the procedure in section 7.13 A. Checking Lubricant Level, to fill the gearbox to the proper level.

## 7.14 BODY, DECK, HOPPER AND UPHOLSTERY

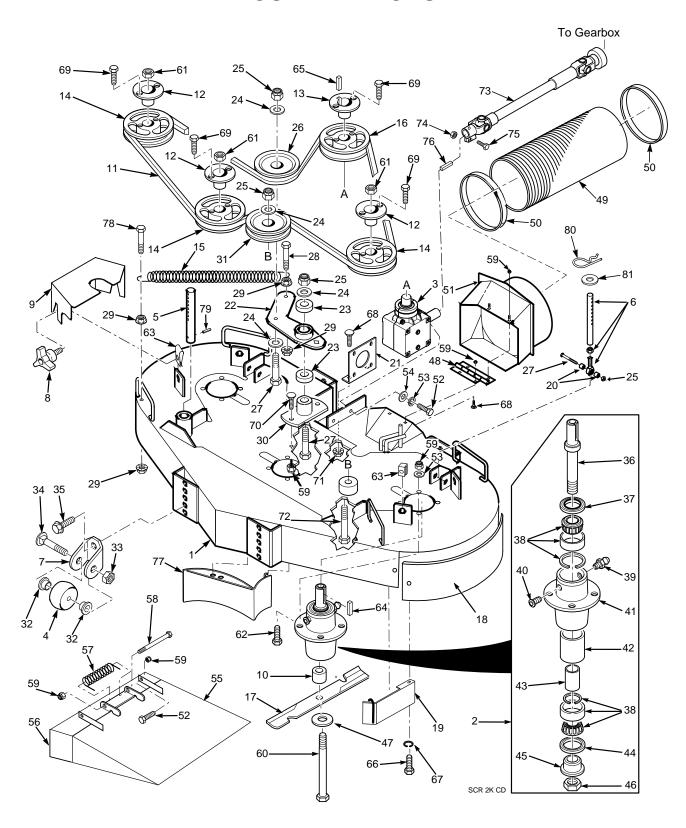
### **ACAUTION:**

Do not wash any portion of the equipment while it is hot. Do not wash the engine; use compressed air.

- 1. After each use, wash the mower, deck and hopper. Use cold water and automotive cleaners. Do not use pressure cleaners.
- 2. Do not spray electrical components.
- 3. Use a mild soap solution or a vinyl/rubber cleaner to clean the seat.
- Repair damaged metal surfaces and use Scag touchup paint available from your authorized Scag dealer. Wax or polish the mower for maximum paint protection.

## NOTES

### **CUTTER DECKS**

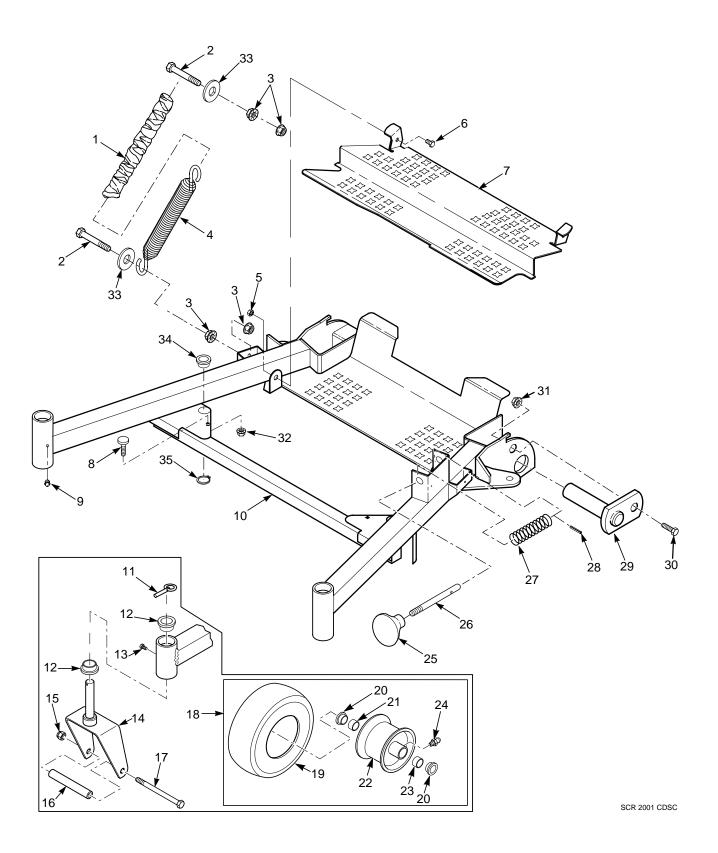


### **CUTTER DECKS**

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	461365 461330 461371 46631 482486 481632 43515 482075 422478 481625-01 423366 422807 423367 423367 423367 423367 423367 423368 43590 481979 482338 48926	Cutter Deck with Decals Cutter Deck with Decals Cutter Deck with Decals Spindle Assembly Gearbox, Cutter Deck Wheel, Anti-Scalp Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive Belt, Cutter Deck Drive	x	x x x x x	x x x x x x	42 43 44 45 46 47 48 49 50 51 52	43312 43296 481025 43297 481035 04040-10 482077 482076 482134 451117	Spacer, Outside Spacer, Inside Seal, Bottom Bushing, Spindle Bottom Nut, Special 1 - 1/16-18 Flat Washer 5/8" Hinge, Rear Chute Tube, Discharge 8" ID Clamp, Duct 8" Chute, Rear Discharge	x x x x x x x	x x x x x x	X X
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	461330 461371 46631 482486 481632 43515 482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Cutter Deck with Decals Cutter Deck with Decals Spindle Assembly Gearbox, Cutter Deck Wheel, Anti-Scalp Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x x x x	x x x x x x	x x x x x x	44 45 46 47 48 49 50 51 52	481025 43297 481035 04040-10 482077 482076 482134 451117	Seal, Bottom Bushing, Spindle Bottom Nut, Special 1 - 1/16-18 Flat Washer 5/8" Hinge, Rear Chute Tube, Discharge 8" ID Clamp, Duct 8"	x x x x x x	x x x x x x	x x x x x x
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	461371 46631 482486 481632 43515 482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Cutter Deck with Decals Spindle Assembly Gearbox, Cutter Deck Wheel, Anti-Scalp Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x x x x	x x x x x x	x x x x x x	45 46 47 48 49 50 51 52	43297 481035 04040-10 482077 482076 482134 451117	Bushing, Spindle Bottom Nut, Special 1 - 1/16-18 Flat Washer 5/8" Hinge, Rear Chute Tube, Discharge 8" ID Clamp, Duct 8"	x x x x x	x x x x x	x x x x x
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	46631 482486 481632 43515 482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Spindle Assembly Gearbox, Cutter Deck Wheel, Anti-Scalp Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x x x x	x x x x x	x x x x x x	46 47 48 49 50 51 52	481035 04040-10 482077 482076 482134 451117	Nut, Special 1 - 1/16-18 Flat Washer 5/8" Hinge, Rear Chute Tube, Discharge 8" ID Clamp, Duct 8"	x x x x x	X X X X	X X X X
3 4 5 6 7 8 9 10 11 12 13 14 15 16	482486 481632 43515 482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Gearbox, Cutter Deck Wheel, Anti-Scalp Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x x x x	x x x x x	x x x x x	47 48 49 50 51 52	04040-10 482077 482076 482134 451117	Flat Washer 5/8" Hinge, Rear Chute Tube, Discharge 8" ID Clamp, Duct 8"	x x x x	x x x x	X X X
4 5 6 7 8 9 10 11 12 13 14 15 16	481632 43515 482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Wheel, Anti-Scalp Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x x x	x x x x	x x x x	48 49 50 51 52	482077 482076 482134 451117	Hinge, Rear Chute Tube, Discharge 8" ID Clamp, Duct 8"	x x x	X X X	X X X
5 6 7 8 9 10 11 12 13 14 15 16	43515 482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Pin, Front Deck Height Adjust. Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x x	x x x x	x x x	49 50 51 52	482076 482134 451117	Tube, Discharge 8" ID Clamp, Duct 8"	x x	x x	X X
6 7 8 9 10 11 12 13 14 15 16	482075 422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Pin, Rear Deck Height Adjust. Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x x	x x x	X X X	50 51 52	482134 451117	Clamp, Duct 8"	x	Х	Х
7 8 9 10 11 12 13 14 15 16	422478 481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Bracket, Anti-Scalp Wheel Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x	x x x	x x	51 52	451117	•	l		
8 9 10 11 12 13 14 15 16	481625-01 423366 422807 423367 422808 43590 482336 481979 482338	Knob w/Stud LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x x	x x	х	52		Chute, Rear Discharge	х	Х	v
9 10 11 12 13 14 15 16	423366 422807 423367 422808 43590 482336 481979 482338	LH Belt Cover LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x x	x		1	0.4004.00				٨
10 11 12 13 14 15 16	422807 423367 422808 43590 482336 481979 482338	LH Belt Cover RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive	x		х	l	04001-09	Bolt, HH 5/16-18 x 1.0"	х	Х	Х
10 11 12 13 14 15 16	423367 422808 43590 482336 481979 482338	RH Belt Cover RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive			^	53	04030-03	Lockwasher, 5/16"	х	Х	Х
10 11 12 13 14 15 16	422808 43590 482336 481979 482338	RH Belt Cover Spacer, Spindle Bottom Belt, Cutter Deck Drive		Y		54	04040-15	Washer, Flat 5/16"	х	Х	Х
10 11 12 13 14 15 16	43590 482336 481979 482338	Spacer, Spindle Bottom Belt, Cutter Deck Drive	х		х	55	461419	Chute, Side Discharge	х		
11 12 13 14 15 16	482336 481979 482338	Belt, Cutter Deck Drive	_ ^		x	55	461329	Chute, Side Discharge		Х	Х
12 13 14 15 16	481979 482338	•	х	^	^	56	461415	Bracket, Side Discharge Chute	х		
12 13 14 15 16	482338		^	.,			461328	Bracket, Side Discharge Chute		Χ	
12 13 14 15 16		Belt, Cutter Deck Drive		Х	v		461411	Bracket, Side Discharge Chute			Х
13 14 15 16	40920	Hub, Tapered 1.125" bore	v	.,	X X	57	482245	Spring, Discharge Chute	x	Х	х
14 15 16	48141	Hub, Tapered 1.125 bore	X	X		58	04001-108	Bolt, HH 5/16-18 x 4.5"	х	Х	Х
15 16	482148	• •	X	Х	Х	59	04021-10	Nut, Elastic Stop 5/16-18	x	Х	х
15 16 17		Pulley, 4.75" OD Tapered Bore	Х	.,	.,	60	04001-158	Bolt, 5/8-11 x 9.5" LH Thread	x	Х	Х
16 17	48924	Pulley, 5.75" OD Tapered Bore Spring, Belt Tension	.,	X	X	61	04020-29	Nut, 5/8-11 LH Thread	x	Х	х
17	481522 481435	1 0,	X	Х	Х	62	04001-10	Bolt, HH 5/16-18 x 1.25"	x	Х	Х
17		Pulley, 5.35" OD Tapered Bore	Х			63	04110-03	U-Nut, 3/8-16	x	Х	х
	48753	Pulley, 6.35" OD Tapered Bore		Х	Х	64	04063-08	Key, 1/4 x 1/4 x 2.0"	x	Х	Х
	482449	Blade, Cutter 14.5" LH	Х			65	04063-01	Key, 1/4 x 1/4 x 1.25"	x	Х	Х
	482450	Blade, Cutter 16.5" LH		Х		66	04001-19	Bolt, 3/8-16 x 1.0"	x	Х	Х
	482451	Blade, Cutter 18.0" LH			Х	67	04030-04	Lock Washer 3/8" Spring	x	Х	Х
	451398	Skirt, Weldment Bolt On	Х			68	04003-12	Bolt, Carriage 5/16-18 x .75"	x	Х	х
	451126	Skirt, Weldment Bolt On		Х		69	04001-01	Bolt, HH 1/4-20 x .75"	x	х	х
	451393	Skirt, Weldment Bolt On			Х	70	04003-04	Bolt, Carriage 5/16-18 x 1.0"	x	Х	Х
	451397	Baffle, Bolt On	Х			71	04019-03	Nut, Serr. Flng. 5/16-18	x	Х	х
	451091	Baffle, Bolt On		X	X	72	04001-77	Bolt, HH 3/8-16 x 3.5"	x	Х	х
	43512	Spacer	Х	Х	Х	73	482426	Driveshaft	x	Х	Х
	422426	Plate, Gearbox Mounting	X	X	X	74	04021-09	Nut, Elastic Stop 3/8-16	x	Х	Х
	451096	Idler Arm	Χ	X	X	75	04001-21	Bolt, Hex Head 3/8-16 x 1-3/4"	x	Х	х
	48224	Bearing, Ball	Χ	X	X	76	04063-01	Key, 1/4 x 1/4 x 1-1/4"	x	Х	Х
	04043-04	Flat Washer 3/8"	X	X	X	77	423336	Baffle, Rear	x		
	04021-09	Nut, Elastic Stop 3/8-16	X	X	X		451092	Baffle, Rear		Х	
	482416	Pulley, Idler	X	X	X		451394	Baffle, Rear			х
	04001-54	Bolt, Hex Head 3/8-16 x 3"	X		X	78	04001-135	Bolt, Hex Head 3/8-16 x 1-3/4"Gr.8	x	х	х
	04001-136	Bolt, Hex Head 3/8-16 x 1.5 GR8 Nut, Serr. Flng. 3/8-16	X		X	79	04060-08	Roll Pin	x	х	х
	04019-04	, 0	X	X		80	04062-04	Hair Pin Cotter	x	Х	х
	422713 48269	Pivot, Idler Arm	X		X	81	04040-10	Flatwasher, 5/8688 x 1.750 x .134	x	Х	х
	48100-15	Pulley, Idler 5.0"	X	X							
		Bushing .376 ID Oilite	X		X						
	04021-05 04003-26	Lock Nut, 3/8-16 Center Lock Bolt, Carriage 3/8-16 x 4.0"	X	X	X						
	04003-26	Bolt, Hex Serr. Flng. 3/8-16 x 1.0"	X		X						
					X						
	43298 481024	Shaft, Spindle	X		X						
		Seal, Top	X	X							
	481022	Bearing Assenbly	X	X							
	48114-04	Grease Fitting Relief Fitting, Grease	X		X						
41	48677	Housing, Spindle	X	X X		1			I		

-NOTE-

### **CUTTER DECK SUPPORT COMPONENTS**



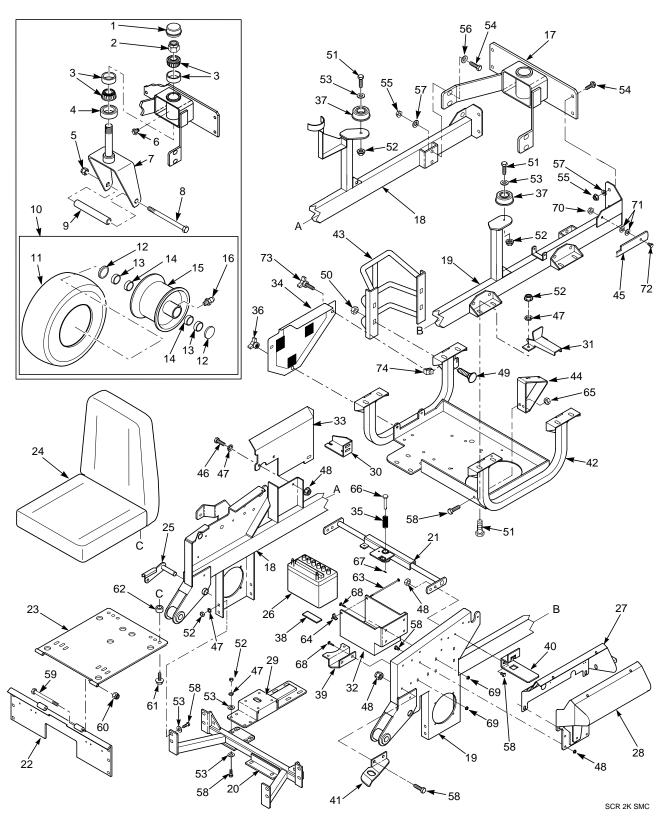


### **CUTTER DECK SUPPORT COMPONENTS**

Ref. No.	Part. Number	Description	42	48	52
NO.	Number	Description	42	48	52
1	482078	Cover, Spring	x	x	x
2	04001-52	Bolt, Hex Head 1/2-13 x 2.5"	x	Х	Х
3	04019-06	Nut, 1/2-13 Serrated Flange	x	Х	Х
4	481993	Spring, Cutter Deck Llft	х	Х	Х
5	04021-09	Nut, 3/8-16 Elastic Stop	x	Х	Х
6	04001-19	Bolt, Hex Head 3/8-16 x 1"	x	Х	Х
7	423234	Footplate	x		
	422775	Footplate		Х	Х
8	481284	Bumper, Rubber	x	Х	Х
9	48114-04	Fitting, Grease	х	Х	Х
10	451386	Frame, Cutter Deck Mounting	х		
	451196	Frame, Cutter Deck Mounting		Х	
	451381	Frame, Cutter Deck Mounting			Х
11	04066-01	Pin, Quick	х	Х	Х
12	48100-17	Bushing, 1" ID Oilite	x	Х	Χ
13	482028-01	Plug, 1/4-28	x	Х	Х
14	45325	Yoke, Caster	х	Х	Х
15	04021-07	Nut, 1/2-13 Elastic Stop	х	Х	Х
16	43511	Spacer	x	Х	Х
17	04001-80	Bolt, Hex Head 1/2-13 x 6.5"	x	Х	Χ
18	481843	Wheel, Caster 11 x 4.0-5 (Incl. items #19 through #24)	x	Х	Х
19	482192	Tire, 11 x 4.0-5	x	Х	Х
20	481770	Retainer	x	Х	Х
21	481769	Roller Bearing .625 x 3.25"	x	Х	Х
22	481844	Rim, 5.0 x 3.25"	x	Х	Х
23	481846	Roller Bearing .625 x 1.0"	x	Х	Х
24	48114-05	Fitting, Grease	x	х	х
25	481245	Knob, Cutter Deck Release	x	х	х
26	43543	Rod, Threaded	x	Х	Х
27	481992	Spring	x	х	Х
28	04060-08	Pin, Roll 3/16 x 1.5"	x	х	х
29	451199	Pin, Deck Frame Pivot	x	х	х
30	04003-04	Bolt, Carriage 5/16-18 x 1"	x	Х	Х
31	04021-10	Nut, 5/16-18 Elastic Stop	x	Х	Х
32	04019-03	Nut, 5/16-18 Serrated Flange	x	Х	Х
33	04040-10	Flatwasher, 5/8688 x 1.750 x .134	x	Х	Х
34	43530	Bushing	x	Х	Х
35	04050-16	Snap-Ring	l x	X	X

#### -NOTE-

### **SHEET METAL**

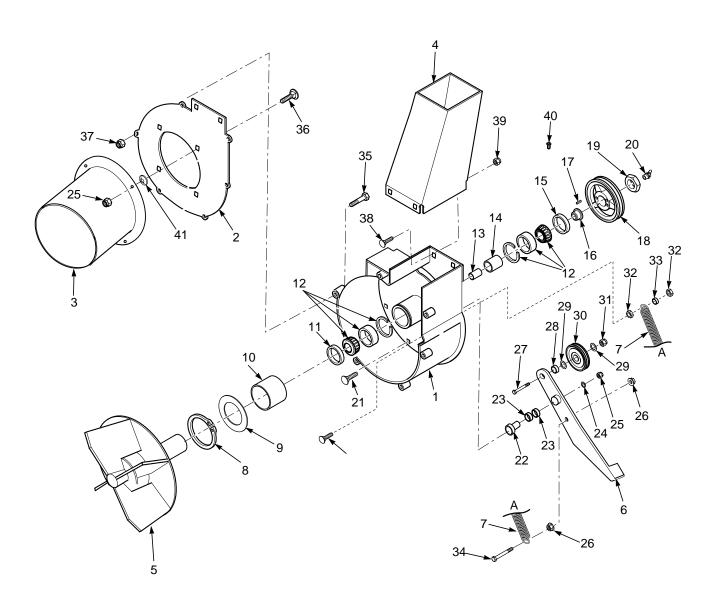


### **SHEET METAL**

81559 4021-20 81657 81025 4021-13 82028-01 51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179 8015	Cap, Grease Nut, Elastic Jam 1.0-14 Bearing, 1.0 Diameter Seal, 2.00 OD x 1.625 ID Nut, Elastic Stop 5/8-11 Plug, 1/4-28 Yoke, Wheel Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	04001-32 04001-63 04001-63 04021-10 04017-16 43512 04003-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01 04110-03	Bolt, Hex Head 3/8-16 x 1.25" Bolt, Hex Head 5/16-18 x 3.5" Nut, Elastic Stop 5/16" Bolt, Capscrew 5/16-18 x .75" Spacer Bolt, Carriage 1/4-20 x 6" Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Nut, Elastic Stop 5/16-18 Nut, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4" U-Nut, 3/8-16
4021-20 81657 81025 4021-13 82028-01 51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Nut, Elastic Jam 1.0-14 Bearing, 1.0 Diameter Seal, 2.00 OD x 1.625 ID Nut, Elastic Stop 5/8-11 Plug, 1/4-28 Yoke, Wheel Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	04001-63 04021-10 04017-16 43512 04003-01 04029-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Bolt, Hex Head 5/16-18 x 3.5" Nut, Elastic Stop 5/16" Bolt, Capscrew 5/16-18 x .75" Spacer Bolt, Carriage 1/4-20 x 6" Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
81657 81025 4021-13 82028-01 51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 511186 61319 51171 51173 51174 51177 51178 82220 51179	Bearing, 1.0 Diameter Seal, 2.00 OD x 1.625 ID Nut, Elastic Stop 5/8-11 Plug, 1/4-28 Yoke, Wheel Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	60 61 62 63 64 65 66 67 68 69 70 71 72 73	04021-10 04017-16 43512 04003-01 04029-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Nut, Elastic Stop 5/16" Bolt, Capscrew 5/16-18 x .75" Spacer Bolt, Carriage 1/4-20 x 6" Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
81025 4021-13 82028-01 51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Seal, 2.00 OD x 1.625 ID  Nut, Elastic Stop 5/8-11  Plug, 1/4-28  Yoke, Wheel  Bolt, Hex Head 5/8-11 x 9.5"  Spacer  Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16)  Tire, 16 x 6.5-8  Seal, Wheel Bearing  Cone, Bearing  Cup, Bearing  Rim Assy, (Includes Item # 12, 13, 14, & 16)  Fitting, Grease  Weldment, Rear Caster Support  Weldment, Main Frame RH  Weldment, Main Frame LH  Weldment, Axle Support  Weldment, Seat Support  Plate, Front Crossmember  Weldment, Seat Plate  Seat Assy.	61 62 63 64 65 66 67 68 69 70 71 72 73	04017-16 43512 04003-01 04029-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Bolt, Capscrew 5/16-18 x .75" Spacer Bolt, Carriage 1/4-20 x 6" Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
4021-13 82028-01 51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51177 51178 82220 51179	Nut, Elastic Stop 5/8-11 Plug, 1/4-28 Yoke, Wheel Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	62 63 64 65 66 67 68 69 70 71 72 73	43512 04003-01 04029-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Bolt, Capscrew 5/16-18 x .75" Spacer Bolt, Carriage 1/4-20 x 6" Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
82028-01 51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Plug, 1/4-28 Yoke, Wheel Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	63 64 65 66 67 68 69 70 71 72 73	04003-01 04029-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Bolt, Carriage 1/4-20 x 6" Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
51187 4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Yoke, Wheel Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	64 65 66 67 68 69 70 71 72 73	04029-01 04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Wing Nut, 1/4-20 x .75" Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
4001-41 3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220	Bolt, Hex Head 5/8-11 x 9.5" Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	65 66 67 68 69 70 71 72 73	04021-09 43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Nut, Elastic Stop 3/8-16 Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
3021 82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220	Spacer Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	66 67 68 69 70 71 72 73	43462 04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Pin Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
82043 82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220	Wheel Assy, 16 x 6.5-8 (Inc. # 11 thru # 16) Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	67 68 69 70 71 72 73	04060-01 04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Roll Pin, Spring 5/32 x .75" Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
82192 81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220	Tire, 16 x 6.5-8 Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	68 69 70 71 72 73	04003-12 04019-03 04021-10 04032-01 04001-09 481625-01	Bolt, Carriage 5/16-18 x .75" Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
81897 81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220	Seal, Wheel Bearing Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	69 70 71 72 73	04019-03 04021-10 04032-01 04001-09 481625-01	Nut, Serrated Flange 5/16-18 Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
81896 81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220	Cone, Bearing Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	70 71 72 73	04021-10 04032-01 04001-09 481625-01	Nut, Elastic Stop 5/16-18 Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
81897 81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Cup, Bearing Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	71 72 73	04032-01 04001-09 481625-01	Washer Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
81894 8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Rim Assy, (Includes Item # 12, 13, 14, & 16) Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	72 73	04001-09 481625-01	Bolt, Hex Head 5/16-18 x 1" Knob, w/stud 3/8-16 x 1-1/4"
8114-06 51186 61319 51171 51173 51174 51177 51178 82220 51179	Fitting, Grease Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	73	481625-01	Knob, w/stud 3/8-16 x 1-1/4"
51186 61319 51171 51173 51174 51177 51178 82220 51179	Weldment, Rear Caster Support Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.			·
61319 51171 51173 51174 51177 51178 82220 51179	Weldment, Main Frame RH Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.	74	04110-03	U-Nut, 3/8-16
51171 51173 51174 51177 51178 82220 51179	Weldment, Main Frame LH Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.			
51173 51174 51177 51178 82220 51179	Weldment, Axle Support Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.			
51174 51177 51178 82220 51179	Weldment, Seat Support Plate, Front Crossmember Weldment, Seat Plate Seat Assy.			
51177 51178 82220 51179	Plate, Front Crossmember Weldment, Seat Plate Seat Assy.			
51178 82220 51179	Weldment, Seat Plate Seat Assy.			
82220 51179	Seat Assy.			
51179	,			
	Woldmont Dock Ston			
0013	Weldment, Deck Stop Battery, purchase locally			
61473	Cover, Instrument Panel			
22855	Rear, Instrument Panel			
51415	Weldment, Gearbox Support			
22976	Plate, Gearbox Upper			
23311				
22936				
23031	•			
23233				
82204	•			
4029-03	. •			
82074				
8657	Pad, Rubber			
22935	Bracket, Hydraulic Filter Mounting			
23252	Bracket, Fuel Tank Front			
22934	Catch, Cutter Deck			
51288	Weldment, Engine Deck			
51256	Weldment, Muffler Guard			
23005	Bracket, Oil Cooler			
22988	Rod, Hopper Prop			
4001-19	Bolt, Hex Head 3/8-16 x 1"			
4030-04	Lockwasher 3/8"			
4019-04	Nut, Serrated Flange 3/8-16			
4003-33	, 5			
4019-05				
4001-20	Bolt, Hex Head 3/8-16 x 1.5"			
4021-09	•			
4041-07	· · · · · · · · · · · · · · · · · · ·			
4001-07	*			
4021-07	•			
4040-07				
23223322222222222222222222222222222222	3311 2936 3031 3233 2204 029-03 2074 657 2935 3252 2934 1288 1256 3005 2988 001-19 030-04 019-04 003-33 019-05 001-20 0021-09 041-07 001-07	3311         Mount, Fuel Tank Rear           2936         Box, Battery           3031         Heatshield           32233         Cover, PTO Clutch           2204         Spring, Seat           329-03         Knob           2074         Pad, Rubber Hopper Rest           657         Pad, Rubber           2935         Bracket, Hydraulic Filter Mounting           3252         Bracket, Fuel Tank Front           2934         Catch, Cutter Deck           41288         Weldment, Engine Deck           41288         Weldment, Muffler Guard           3005         Bracket, Oil Cooler           2988         Rod, Hopper Prop           901-19         Bolt, Hex Head 3/8-16 x 1"           9030-04         Lockwasher 3/8"           9019-04         Nut, Serrated Flange 3/8-16           9019-05         Nut, Serrated Flange 7/16-14 x 1"           9019-05         Nut, Serrated Flange 7/16-14           901-20         Bolt, Hex Head 3/8-16 x 1.5"           901-09         Nut, Elastic Stop 3/8-16           901-07         Bolt, Hex Head 1/2-13 x 1.5"           901-07         Bolt, Hex Head 1/2-13 x 1.5"           901-07         Nut, Elastic Stop 1/2-13	3311       Mount, Fuel Tank Rear         2936       Box, Battery         3031       Heatshield         32233       Cover, PTO Clutch         2204       Spring, Seat         029-03       Knob         2074       Pad, Rubber Hopper Rest         657       Pad, Rubber         2935       Bracket, Hydraulic Filter Mounting         3252       Bracket, Fuel Tank Front         2934       Catch, Cutter Deck         41288       Weldment, Engine Deck         41256       Weldment, Muffler Guard         3005       Bracket, Oil Cooler         2988       Rod, Hopper Prop         001-19       Bolt, Hex Head 3/8-16 x 1"         003-04       Lockwasher 3/8"         019-04       Nut, Serrated Flange 3/8-16         003-33       Bolt, Carriage 7/16-14 x 1"         001-05       Nut, Serrated Flange 7/16-14         001-20       Bolt, Hex Head 3/8-16 x 1.5"         001-09       Nut, Elastic Stop 3/8-16         001-07       Bolt, Hex Head 1/2-13 x 1.5"         001-07       Bolt, Hex Head 1/2-13 x 1.5"         001-07       Flatwasher, 3/8"         001-07       Nut, Elastic Stop 1/2-13         004-07       F	Mount, Fuel Tank Rear

-NOTE-

## **BLOWER ASSEMBLY**



SCR 2K BLOWER

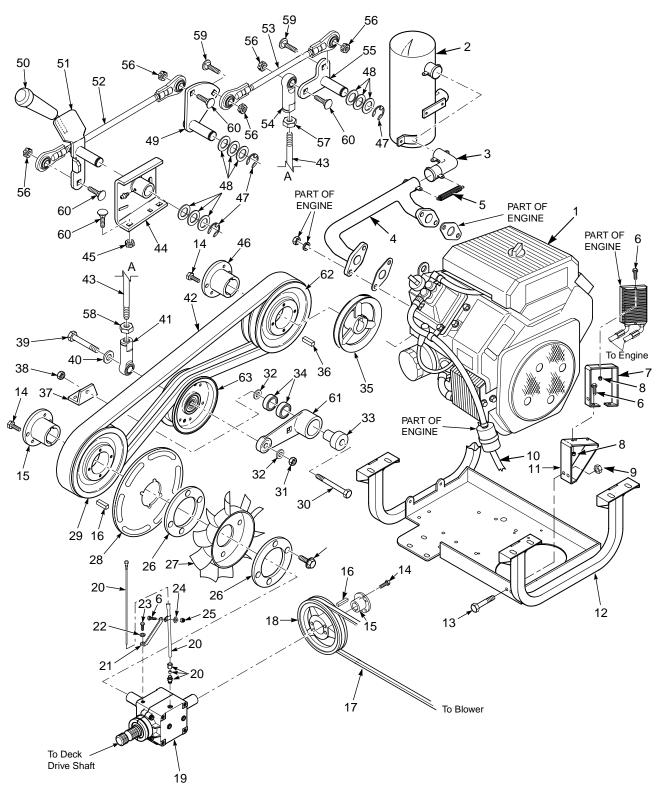


### **BLOWER ASSEMBLY**

Ref.	Part.		Ref.	Part.	
No.	Number	Description	No.	Number	Description
1	451202	Blower Housing, Rear	36	04003-23	Bolt, Carriage 3/8-16 x 1.0
2	422812	Blower Housing, Front	37	04021-10	
3	451116	Inlet	38	04003-06	Bolt, Carriage 1/4-20 x 1.0
4	461321	Outlet	39	04021-08	
5	451201	Fan	40	48677	Relief Fitting
6	461326	Idler Arm, Weldment (includes #22)	41		Push Nut, 3/8 Thread
7	481995	Spring			
8	04050-15	Ring, Retaining 2.5 ext.			
9	421665	Washer, Retainer			
10	48100-12	Bushing, Oilite 2.505 ID			
11	481024	Seal, 2.00 OD x 1.50 Bore			
12	481022	Bearing Assembly			
13	43296	Spacer, Inside			
14	43312	Spacer, Outside			
15	481025	Seal, 2.00 OD x 1.625 Bore			
16	43297	Bushing			
17	04063-21	Key, 1/4 x .874 Woodruff			
18	481468	Pulley, 5.25 OD			
19	481106	Nut, 1-1/16 - 18 LH Thread			
20	48114-09	Grease Fitting, 65 degree angle			
21	04003-21	Bolt, Carriage 3/8-16 x 2.5"			
22	461326	Idler Arm w/pivot			
23	48224	Bearing			
24	04043-04	Flatwasher 3/8"			
25	04021-09	Nut, Elastic Stop 3/8-16			
26	04019-04	Nut, Serr. Flng. 3/8-16			
27	04001-46	Bolt, HH 3/8-16 x 2.25"			
28	43282	Spacer			
29	04043-04	Flat Washer 3/8"			
30	482079	Pulley, 3.0" diameter			
31	04021-09	Nut, Elastic Stop 3/8-16			
32	04019-04	Nut, Serr. Flng. 3/8-16			
33	43212	Spacer			
34	04001-136	Bolt, HH 3/8-16 x 1.5"			
35	04001-11	Bolt, HH 5/16-18 x 1.5"			

#### -NOTE-

### **ENGINE AND ATTACHING PARTS**



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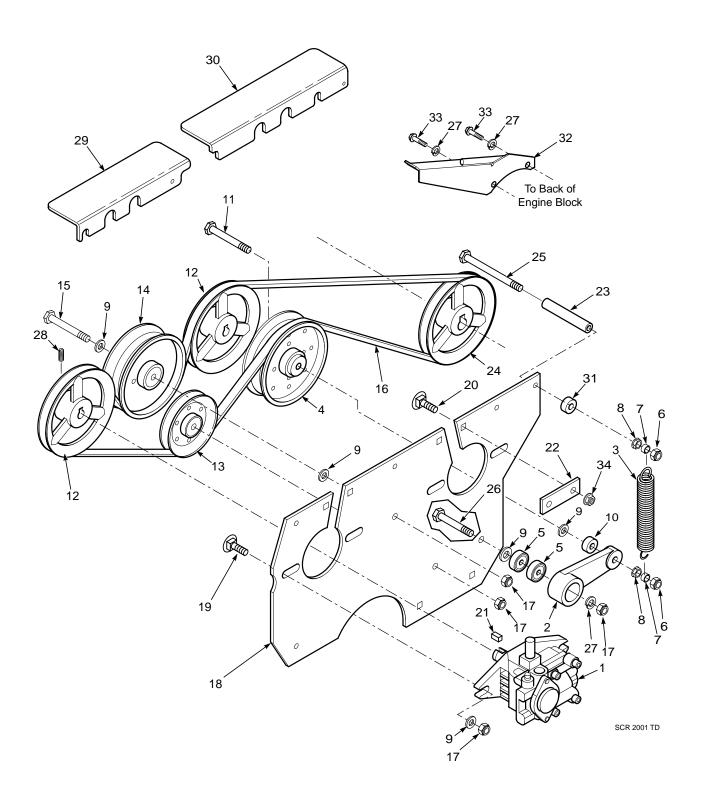


### **ENGINE AND ATTACHING PARTS**

Ref.	Part.		Ref.	Part.	
No.	Number	Description			Description
1	481967	Engine, 25 HP Kohler (Spec.PS-68650)	32	04030-04	Lock Washer, 3/8"
	482271	Engine, 27 HP Kaw.(Spec. FD750D-AS04)	33	43503	Pivot, Idler
2	481946	Muffler	34	48224	Bearing, Idler Arm
3	482081	Pipe, Exhaust	35	481788	Pulley, 5.45" OD - 1.125 Bore
4	481947	Manifold, Exhaust, Kohler	36	04063-20	Key, 1/4 x1/4 x 1"
	481944	Manifold, Exhaust, Kawasaki		04063-23	Key, 1/4 x 1/4 x 3-1/4"
5	482329	Spring, Exhaust	37	423014	Mounting Bracket, Idler
6	04001-01	Bolt, Hex Head 1/4-20 x .75"	38	04021-09	Nut, Elastic Stop 3/8"
7	423006	Guard, Oil Cooler, Kohler Only	39	04001-30	Bolt, Hex Head 3/8-16 x 4"
8	04019-02	Nut, Serrated Flange 1/4-20	40	04030-04	Lock Washer, 3/8"
9	04021-09	Nut, Elastic Stop 3/8-16	41	482331	Rod End, 3/8-24 LH Female
10	48058	Hose, Fuel 1/4" ID (order by the inch)	42	482263	Belt
11	423005	Bracket, Oil Cooler, Kohler Only	43	482231	Link, PTO
12	451401	Weldment, Engine Deck	44	451293	Bracket, PTO
13	04001-20	Bolt, Hex Head 3/8-16 x 1.5"	45		Nut,
14	04001-14	Capscrew, Hex Head 1/4-20 x 1"	46	48926	Hub, Tapered 1.125" Bore
15	48141	Hub, Tapered 1" Bore	47	04050-02	External E-Ring
16	04063-01	Key, 1/4 x 1/4 x 1.25"	48		Flatwaser,
17	481977	Belt, Blower	49	451296	Bellcrank Weldment, Front
18	481435	Pulley, 5.35" OD	50	482250	Grip, PTO Lever
19	482500	Gearbox, T-Drive	51	461334	Lever Weldment, PTO Engagement
20	482223	Dipstick Assembly	52	482233	Linkage Assembly, PTO Upper
21	423236	Bracket, Dipstick Tube	53	482232	Linkage Assembly, PTO Center
22	04030-03	Lock Washer, 5/16"	54	482330	Rod End, 3/8-24 RH Female
23	04001-08	Bolt, Hex Head 5/16-18 x 3/4"	55	451297	Bellcrank Weldment, Rear
24	04040-14	Flatwasher, 1/4312 x .750 x .065	56		Nut, Center Lock
25	04021-08	Nut, Elastic Stop 1/4-20	57	04020-14	Nut, 3/8-24 LH Thread
26	423115	Spacer, Fan	58	04020-17	Nut, 3/8-24 RH Thread
27	482133	Fan, Cooling	59		Bolt, Carraige
28	423078	Disk, Fan Support	60		Bolt, Carraige
29	482067	Pulley, 4.95" OD Tapered Bore	61	461015	Idler Arm
30	04001-31	Bolt, Hex Head 3/8-16 x 2.5"	62	482067	Pulley, 4.95" OD Tapered Bore
31	04021-09	Nut, Elastic Stop 3/8-16	63	482249	Pulley, Idler 4" Dia.

#### -NOTE-

### TRACTION DRIVE COMPONENTS



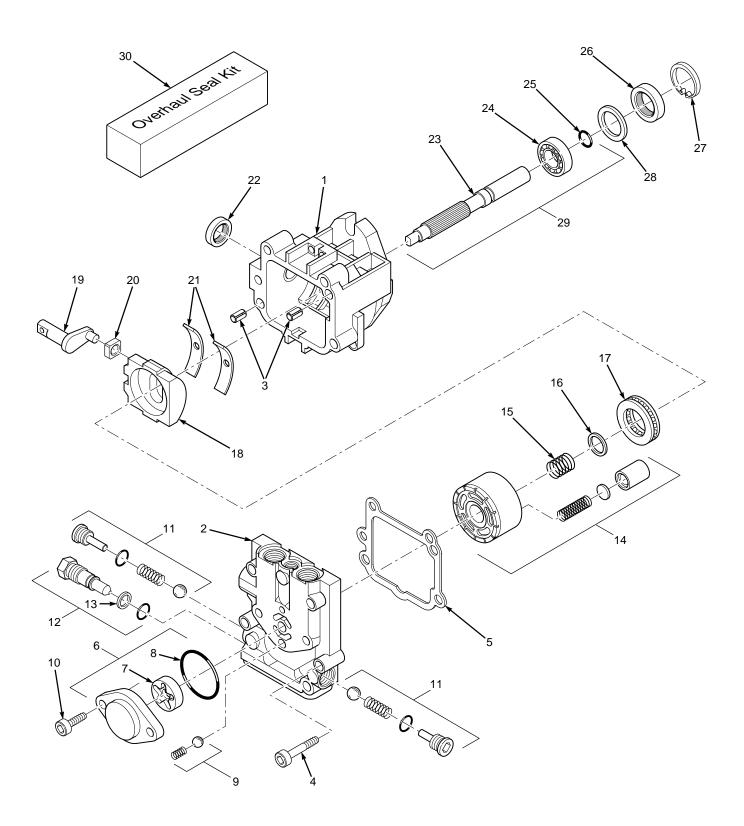


### TRACTION DRIVE COMPONENTS

Ref. No.	Part No.	Description
110.	110.	Description
1	48551	Pump, Hydraulic
2	461015	Idler, Arm
3	481994	Spring, Idler
4	482135	Pulley, Idler
5	48224	Bearing, Idler Arm
6	04021-05	Nut, 3/8-16 Center Lock
7	43212	Spacer
8	04019-04	Nut, 3/8-16 Serrated Flange
9	04043-04	Washer, Flat 3/8"
10	43077	Spacer
11	04001-160	Bolt, 3/8-16 x 3.0"
12	48586	Pulley, 5.45" OD
13	482062	Pulley, 4" OD
14	48413	Pulley, 4" OD
15	04001-31	Bolt, Hex Head 3/8-16 x 2.5"
16	481978	Belt, Pump Drive
17	04021-09	Nut, Elastic Stop 3/8-16
18	422927	Plate, Pump Mounting
19	04003-05	Bolt, Carriage 3/8-16 x 1.5"
20	04003-12	Bolt, Carriage 5/16-18 x .75"
21	04063-14	Key, 5mm x 5mm x 25mm
22	422928	Plate, Keeper
23	43542	Spacer Spacer
24	481788	Pulley, 5.45" OD
25	04001-100	Bolt, 3/8-16 x 6"
26	04001-31	Bolt, Hex Head 3/8-16 x 2.5"
27	04030-04	Washer, Lock 3/8"
28	04012-04	Setscrew, .312-18 Thread
29	461317	Cover, Belt Front
30	461318	Cover, Belt Rear
31	43277	Spacer
32	451205	Heatshield
33	04001-19	Bolt, Carriage 3/8-16 x 1"
34	04019-03	Nut, Serr. Flange 5/16-18

#### -NOTE-

### **HYDRAULIC PUMP**



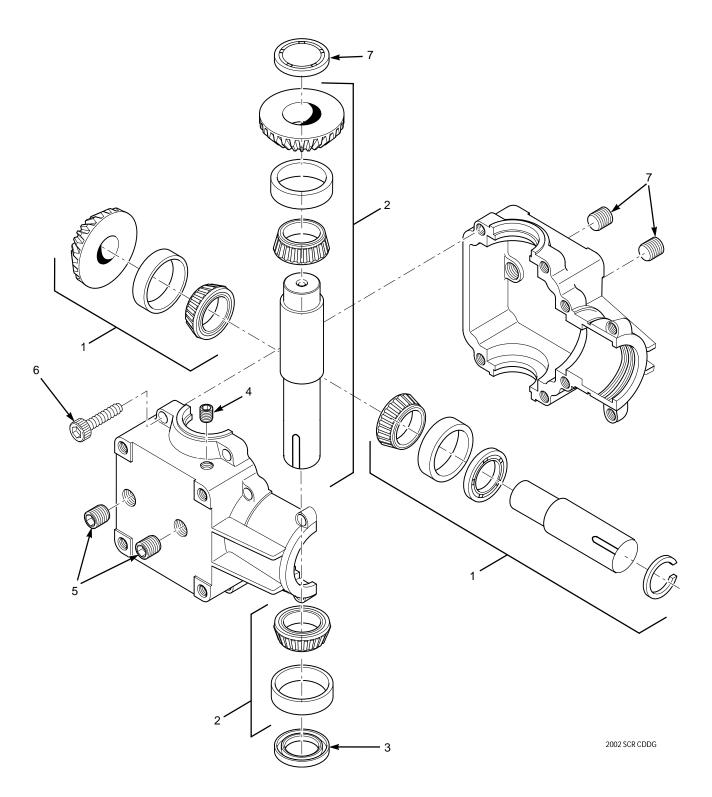


### **HYDRAULIC PUMP**

Ref. No.	Part No.	Description
1	HG 2513017	Housing Kit (Includes Housing, Journal Bearing)
2	HG 2513016	End Cap
3	HG 9004800-2506	Straight Headless Pin
4	HG 9007314-0810	Socket Head Screw 5/16-18x1.0
5	HG 2003067	End Cap Gasket
6	HG 2513027	Charge Pump Kit (Includes Charge Cover, Gerotor Assy., O-Ring)
7	HG 50273	Gerotor Assembly
8	HG 9004101-1340	O-Ring
9	HG 2510064	Charge Relief Valve Kit
10	HG 50095	Socket Head Screw
11	HG 2510027	Check Valve Kit (Includes Check Plug, Spring, O-Ring, Orifice Check Valve)
12	HG 2513030	Bypass Valve Kit (Includes Bypass Valve, O-Ring, Back-up Ring)
13	HG 9006110-0120	Backup Ring
14	HG 70079	Cylinder Block Kit
15	HG 2003014	Block Spring
16	HG 2003017	Block Thrust Washer
17	HG 2003044	Roller Thrust Bearing
18	HG 2003087	Swash Plate
19	HG 2003005	Trunnion Arm
20	HG 2000015	Guide Slot
21	HG 2003023	Cradle Bearing
22	HG 9008000-0126	Lip Seal
23	HG 2003020	Pump Shaft
24	HG 2003043	Ball Bearing
25	HG 2003016	Retaining Ring
26	HG 9008000-0128	Lip Seal
27	HG 2003052	RetainingRing
28	HG 2003018	Spacer
29	HG 2513038	Shaft Kit (Includes Pump Shaft, Ball Bearing, Retaining Ring)
30	HG 2513018	Overhaul Seal Kit (Includes Gasket, Trunnion Seal, Input Shaft Seal, Charge Pump O-Ring)

#### -NOTE-

### **CUTTER DECK DRIVE GEARBOX**

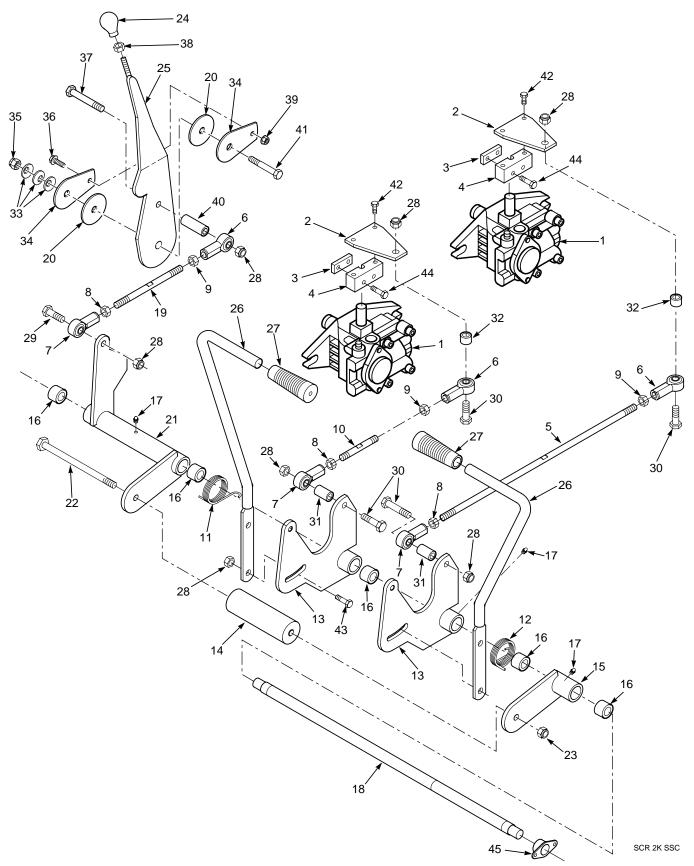




### **CUTTER DECK DRIVE GEARBOX**

1	Part No.	Description
2 3 4 5 6	482123 481651 481652-01 481652-02 04015-16	Shaft Assembly Shaft Assembly Seal, 1.00" x 1.50" x 3/16" Plug, 1/8" NPT Socket Head Plug, 1/4" NPT Socket Head Bolt, 5/16-18 x 1.25" End Cap

### **SPEED AND STEERING CONTROLS**



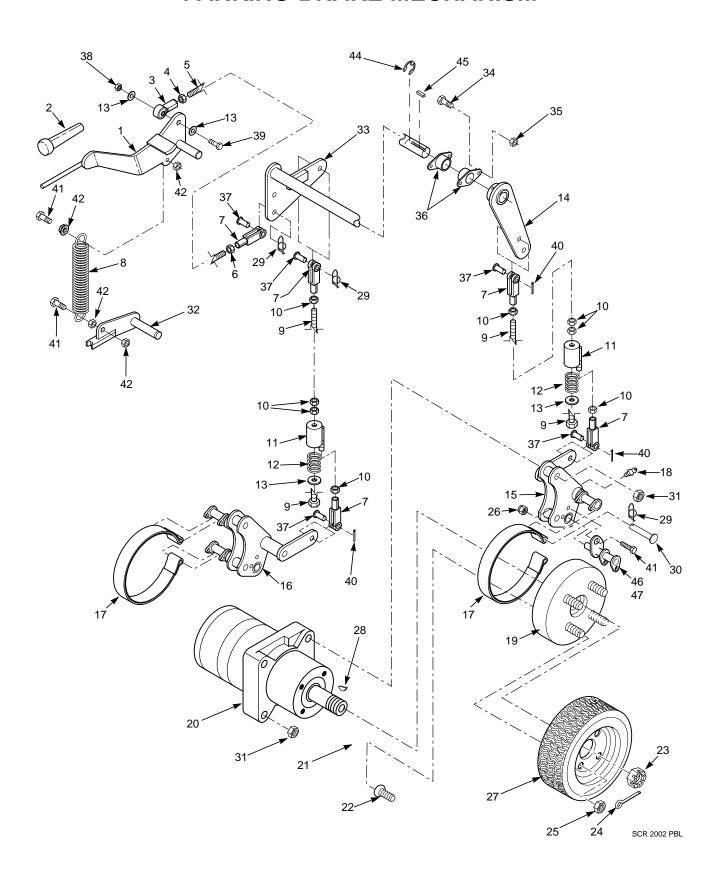


### **SPEED AND STEERING CONTROLS**

No.         Description           1         48551         Pump, Hydraulic           2         422969         Lever, Pump           3         421203         Clamp, Pump Control           4         48829         Block, Pump Control           5         482177         Rod, Threaded 3/8-24 x 14.675"           6         48464         Rod End, 3/8-24 RH Thread Female           7         48544         Rod End, 3/8-24 LH Thread Female           8         04020-25         Nut, Jam 3/8-24 RH Thread           9         04020-25         Nut, Jam 3/8-24 RH Thread           10         482178         Rod, Threaded 3/8-24 x 2.925"           11         482060         Spring, Torsion RH           12         482059         Spring, Torsion LH           13         451183         Weldment, Steering Control           14         43541         Spacer, Lever Stop           15         451181         Weldment, Speed Control LH           16         48114-04         Fitting, Grasse 1/4-28           18         43544         Shaft, Steering Lever           20         481243         Disc, Friction           21         451182         Weldment, Speed Control RH <t< th=""><th></th></t<>	
2       422969       Lever, Pump         3       421203       Clamp, Pump Control         4       48829       Block, Pump Control         5       482177       Rod, Threaded 3/8-24 x 14.675"         6       48464       Rod End, 3/8-24 LH Thread Female         7       48544       Rod End, 3/8-24 LH Thread Female         8       04020-26       Nut, Jam 3/8-24 LH Thread         9       04020-25       Nut, Jam 3/8-24 RH Thread         10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3	
2       422969       Lever, Pump         3       421203       Clamp, Pump Control         4       48829       Block, Pump Control         5       482177       Rod, Threaded 3/8-24 x 14.675"         6       48464       Rod End, 3/8-24 LH Thread Female         7       48544       Rod End, 3/8-24 LH Thread Female         8       04020-26       Nut, Jam 3/8-24 RH Thread         9       04020-25       Nut, Jam 3/8-24 RH Thread         10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-09       Locknut, 3/8-16 E	
3         421203         Clamp, Pump Control           4         48829         Block, Pump Control           5         482177         Rod, Threaded 3/8-24 x 14.675"           6         48464         Rod End, 3/8-24 LH Thread Female           7         48544         Rod End, 3/8-24 LH Thread           8         04020-26         Nut, Jam 3/8-24 LH Thread           9         04020-25         Nut, Jam 3/8-24 RH Thread           10         482178         Rod, Threaded 3/8-24 x 2.925"           11         482060         Spring, Torsion RH           12         482059         Spring, Torsion LH           13         451183         Weldment, Steering Control           14         43541         Spacer, Lever Stop           15         451181         Weldment, Speed Control LH           16         48100-06         Buching, .753 ID Sint.           17         48114-04         Fitting, Grease 1/4-28           18         43544         Shaft, Steering Lever           20         481243         Disc, Friction           21         451182         Weldment, Speed Control RH           22         04001-100         Bolt, Hex Head 3/8-16 x 6"           23         04021-09 <t< td=""><td></td></t<>	
4       48829       Block, Pump Control         5       482177       Rod, Threaded 3/8-24 x 14.675"         6       48464       Rod End, 3/8-24 RH Thread Female         7       48544       Rod End, 3/8-24 LH Thread Female         8       04020-26       Nut, Jam 3/8-24 LH Thread         9       04020-25       Nut, Jam 3/8-24 RH Thread         10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245	
5       482177       Rod, Threaded 3/8-24 x 14.675"         6       48464       Rod End, 3/8-24 RH Thread Female         7       48544       Rod End, 3/8-24 LH Thread Female         8       04020-26       Nut, Jam 3/8-24 LH Thread         9       04020-25       Nut, Jam 3/8-24 RH Thread         10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298<	
7       48544       Rod End, 3/8-24 LH Thread Female         8       04020-26       Nut, Jam 3/8-24 LH Thread         9       04020-25       Nut, Jam 3/8-24 RH Thread         10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Speed Control         27       481477       Grip	
8       04020-26       Nut, Jam 3/8-24 LH Thread         9       04020-25       Nut, Jam 3/8-24 RH Thread         10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop	
9 04020-25 Nut, Jam 3/8-24 RH Thread 10 482178 Rod, Threaded 3/8-24 x 2.925" 11 482060 Spring, Torsion RH 12 482059 Spring, Torsion LH 13 451183 Weldment, Steering Control 14 43541 Spacer, Lever Stop 15 451181 Weldment, Speed Control LH 16 48100-06 Buching, .753 ID Sint. 17 48114-04 Fitting, Grease 1/4-28 18 43544 Shaft, Steering Lever 19 482176 Rod, Threaded 3/8-24 x 3.75" 20 481243 Disc, Friction 21 451182 Weldment, Speed Control RH 22 04001-100 Bolt, Hex Head 3/8-16 x 6" 23 04021-09 Locknut, 3/8-16 Elastic 24 481245 Knob, Speed Control 25 451298 Lever, Steering 27 481477 Grip, Steering Lever 28 04021-09 Nut, Elastic Stop 3/8-16	
10       482178       Rod, Threaded 3/8-24 x 2.925"         11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
11       482060       Spring, Torsion RH         12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
12       482059       Spring, Torsion LH         13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
13       451183       Weldment, Steering Control         14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
14       43541       Spacer, Lever Stop         15       451181       Weldment, Speed Control LH         16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
15	
16       48100-06       Buching, .753 ID Sint.         17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
17       48114-04       Fitting, Grease 1/4-28         18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
18       43544       Shaft, Steering Lever         19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
19       482176       Rod, Threaded 3/8-24 x 3.75"         20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
20       481243       Disc, Friction         21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
21       451182       Weldment, Speed Control RH         22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
22       04001-100       Bolt, Hex Head 3/8-16 x 6"         23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
23       04021-09       Locknut, 3/8-16 Elastic         24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
24       481245       Knob, Speed Control Lever         25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
25       451298       Lever, Speed Control         26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
26       422438       Lever, Steering         27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
27       481477       Grip, Steering Lever         28       04021-09       Nut, Elastic Stop 3/8-16	
28 04021-09 Nut, Elastic Stop 3/8-16	
30 04001-21 Bolt, Hex Head 3/8-16 x 1.75"	
31 43512 Spacer	
32 43212 Spacer	
33 04032-04 Washer, Belleville 5/8"	
34 422198 Plate, Speed Selector	
35 04021-13 Nut, Elastic Stop 5/8-11	
36 04017-18 Bolt, 5/16-18 x 1.25" Capscrew	
37 04001-46 Bolt, Hex Head 3/8-16 x 2.25"	
38 04020-12 Nut, 3/8-16 Jam	
39 04019-03 Nut, 5/16-18 Serrated Flange	
40 43277 Spacer	
41 04001-122 Bolt, Hex Head 5/16-18 x 2.25"	
42 04001-08 Bolt, Hex Head 5/16-18 x .75"	
43 04001-32 Bolt, Hex Head 3/8-16 x 1.25"	
44 04001-59 Bolt, Hex Head 1/4-20 x 1.25"	
45 48796 Bushing, Self-Aligning	

#### -NOTE-

### PARKING BRAKE MECHANISM



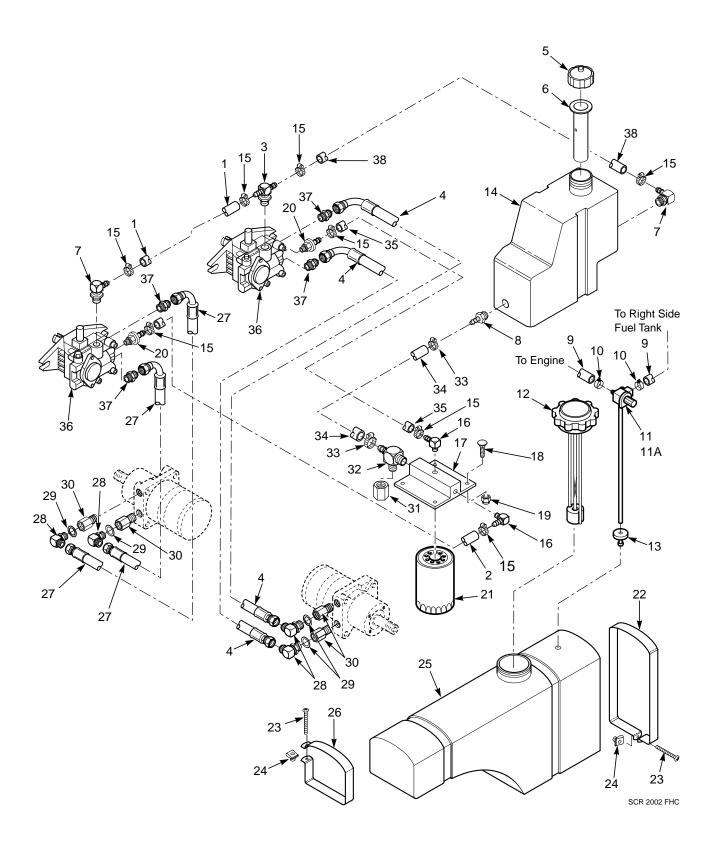


### **PARKING BRAKE MECHANISM**

Ref.	Part	
No.	No.	Description
1	461320	Lever, Parking Brake
2	482058	Grip, Parking Brake Lever
3	48544	Rod End, 3/8-24 LH
4	04020-17	Nut, 3/8-24 LH Thread
5	04004-39	Rod, 3/8-24 x 9.5"
6	04020-14	Nut, 3/8-24 RH Thread
7	48343-04	Clevis, 3/8-24
8	481990	Spring
9	04001-162	Bolt, Hex Head 3/8-24 x 8.25"
10	04020-14	Nut, 3/8-24
11	451260	Weldment, Brake Rod
12	48807	Spring
13	04041-07	Flatwasher, 3/8"
14	451224	Weldment, Brake
15	461469	Weldment, Brake Linkage
16	461470	Weldment, Brake Linkage
17	481601	Band, Brake
18	48114-05	Fitting, Grease
19	48589	Drum, Brake
20	481529	Motor, Hydraulic Wheel
21	461438	Hub, Wheel
22 23	04008-01	Stud, Wheel Mounting 1/2-20
	48680	Nut, Castle 1.0-20 UNF
24 25	04061-06 04028-01	Pin, Cotter 9/16" x 1.5" Nut, Lug 1/2-20
		·
26	04021-10	Nut, Elastic Stop 5/16-18
27	482185	Wheel Assy 23 x 8.50-12 (42" Only)
	481833	Tire, 23 x 8.50-12 (42" Only) Rim W/Valve Stem (42" Only)
	482186 482044	Wheel Assy 23 x 9.50-12 (48" & 52")
	481659	Rim W/Valve Stem (48" & 52")
	482194	Tire, 23 x 9.50-12 (48" & 52")
28	04063-25	Key, Woodruff 5/16 x 1"
29	04069-01	Pin, Rue Cotter 3/8" Diameter
30	04064-03	Pin, Clevis 3/8" Diameter x 2"
31	04021-19	Locknut, Hex 1/2-13 Center Lock
32	451179	Weldment, Deck Stop
33	451295	Weldment, Brake Shaft
34	04001-08	Bolt, Hex Head 5/16-18 x .75"
35	04021-10	Nut, Elastic Stop 5/16-18
36	482061	Bushing, Self-Aligning
37	04064-02	Pin, Clevis 3/8 x 1.06"
38	04021-09	Nut, Elastic Stop 3/8-16
39	04001-20	Bolt, Hex Head 3/8-16 x 1.5"
40	04061-02	Pin, Cotter 3/32 x .75"
41	04001-09	Bolt, Hex Head 5/16-18 x 1"
42	04019-03	Nut, Serrated Flange 5/16-18
43	04021-04	Nut, Elastic Stop 5/16-18
44	04050-12	E-Clip, .875"
45	04063-20	Key, 1/4 x 1/4 x 1"
46	451073	Brake Linkage Weldment, LH
47	451074	Brake Linkage Weldment, RH

#### -NOTE-

### **FUEL AND HYDRAULIC COMPONENTS**



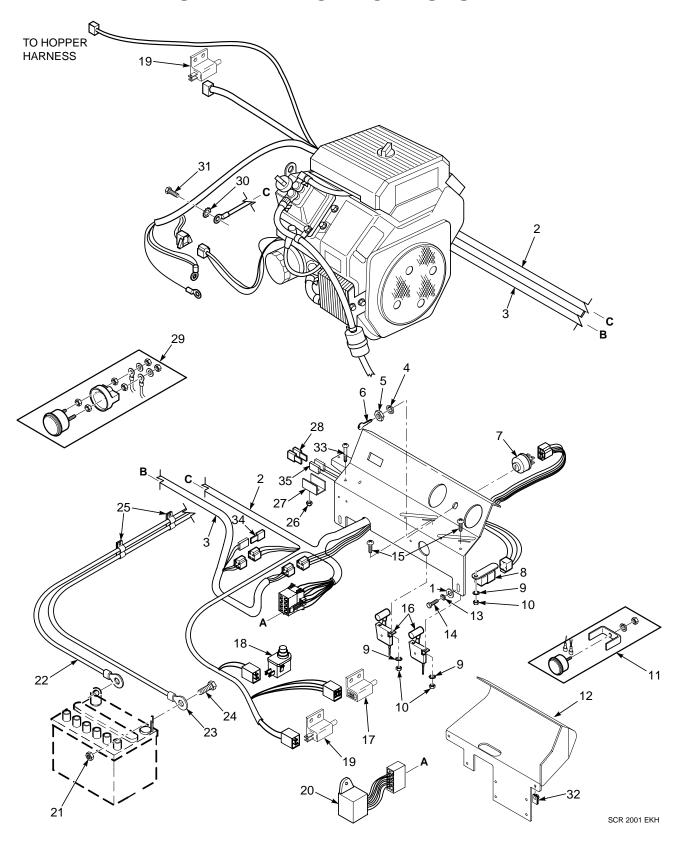


### **FUEL AND HYDRAULIC COMPONENTS**

Ref. No.	Part. Number	Description
1	48811	Hose, 3/8 Pushlock 20" Long (order by the inch)
2	48811	Hose, 3/8 Pushlock 30" Long (order by the inch)
3	482277	Tee, Swivel 9/16-18 JIC
4	481960	Hose Assembly, LH
5	481164	Cap, Hydraulic Tank
6	481507	Insert, Filler Neck
7	482266-01	Elbow, 9/16 O-Ring x 3/8 Hose
8	481467-03	Connector, O-Ring to Hose Barb
9	48058	Fuel Hose 1/4" ID
10	48059-01	Clamp, Fuel Hose 1/4" Hose ID
11	481989	Valve, Fuel Shutoff (LH Tank)
11A	482055	Tube, Fuel Standoff (RH Tank)
12	481958	Cap, Fuel Tank w/gauge
13	48309	Bushing, Tank
14	461437	Hydraulic Tank
15	48136-07	Clamp
16	482266-01	Elbow, 9/16 O-Ring x 3/8 Hose
17	482417	Filter Head
18	04001-09	Bolt, Hex Head 5/16-18 x 1"
19	04021-10	Nut, Elastic Stop 5/16-18
20	481467-01	Connector, 7/16 O-Ring x Hose Barb
21	48758	Filter, Hydraulic
22	422939	Strap, Fuel Tank Rear
23	04010-10	Screw, 1/4-20 x 2"
24	04110-01	U-Nut, 1/4-20
25	481957	Fuel Tank
26	422940	Strap, Fuel Tank Front
27	481961	Hose Assembly, RH
28	48350-02	Elbow, 90 Degree 1/2 x 1/2
29	48603-02	O-Ring
30	48938-02	O-Ring Bushing, 5/8 Tube
31	48571-02	Cap, 3/4-16 JIC
32	482481	Fitting, Tee Special
33	48136-05	Clamp
34	482499	Hose, Return Line
35	48811	Hose, 3/8 Pushlock 36" Long (order by the inch)
36	48551	Pump, BDP 10L
37	48572-04	Tube, Union 1/2 x 1/2
38	48811	Hose, 3/8 Pushlock 5" Long (order by the inch)

#### -NOTE-

## KOHLER ELECTRICAL SYSTEM



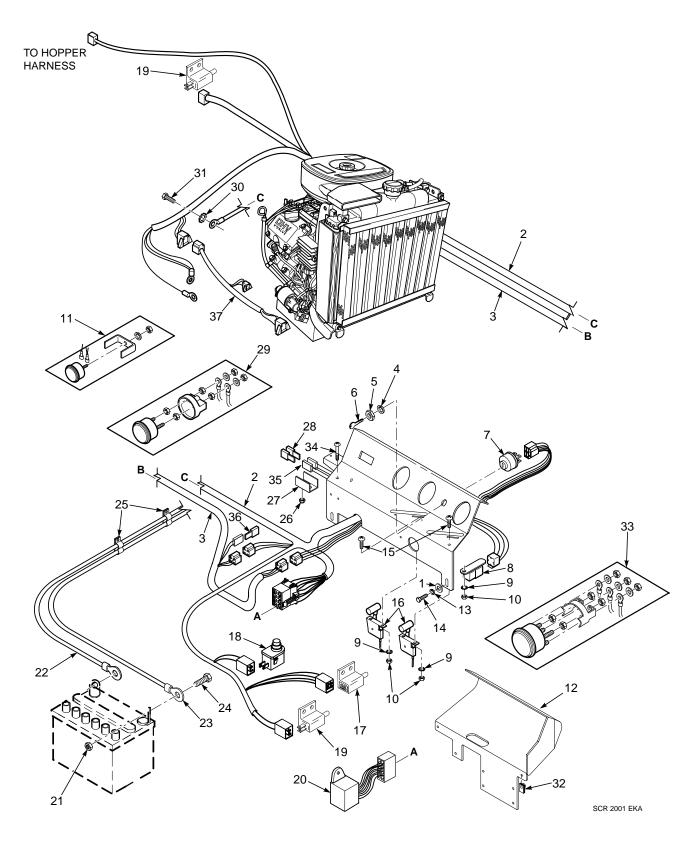


### KOHLER ELECTRICAL SYSTEM

Ref.	Part.		Ref.	Part.	
No.	Number	Description	No.	Number	Description
1	04040-15	Flatwasher, 5/16375 x .875 x .083	21	04020-02	Nut, 1/4-20
2	482318	Wire Harness, SCR	22	48029-19	Battery Cable, Black
3	482319	Wire Harness, Hopper	23	48029-20	Battery Cable, Red
4	48017-03	Lockwasher, Internal 5/8"	24	04001-44	Bolt, Hex Head 1/4-20 x 1/2"
5	48017-04	Nut, 5/8-32 Special	25	48030-18	Cable Clamp, Double
6	48017-02	Key & Ring (includes 2 keys)	26	04021-01	Nut, Elastic Stop #10
7	48798	Keyswitch w/hardware	27	42413	Bracket, Fuse Holder
8	48788	Relay	28	48298	Fuse, 20 Amp
9	04031-01	Lockwasher, #10 external tooth	29	481755	Ammeter
10	04020-01	Nut, #10-32 UNF	30	04030-04	Lockwasher, 3/8"
11	48023	Hour Meter	31	04001-18	Bolt, Hex Head
12	451185	Instrument Panel, Lower	32	04110-02	U-Nut, 5/16-18
13	04030-03	Lockwasher, 5/16	33	04010-11	Screw, #10-32 x 1-1/2"
14	04001-09	Bolt, Hex Head 5/16-18 x 1"	34	482157	Fuse, 15 Amp
15	04010-01	Screw, #10-32 x 1/2"	35	48430	Fuse Holder W/Fuse & Connector
16	482032	Control Cable			
17	481545	Switch, PTO			
18	481638	Switch, Seat			
19	481637	Switch, Brake & Hopper			
20	482313	Interlock Module			

#### -NOTE-

### KAWASAKI ELECTRICAL SYSTEM



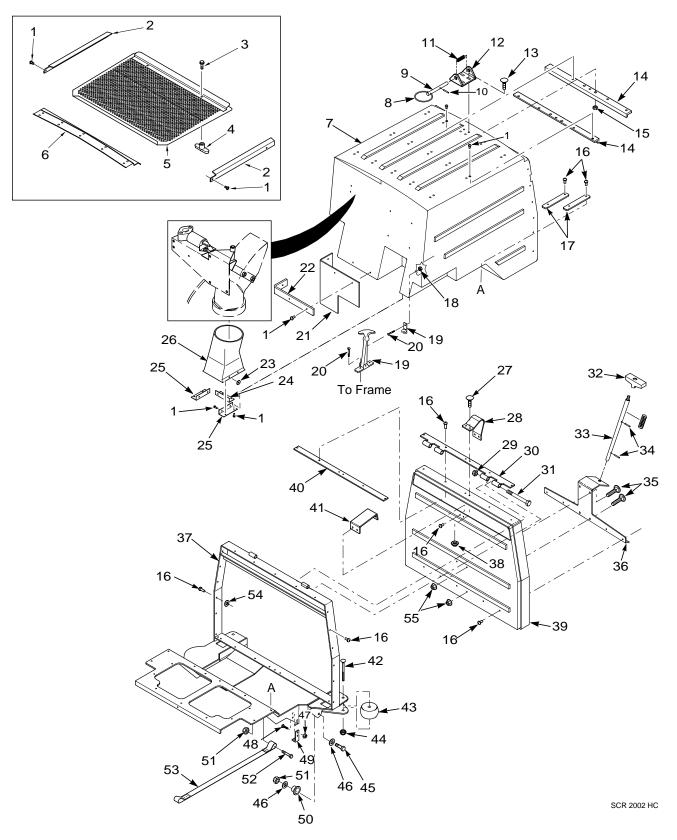


### KAWASAKI ELECTRICAL SYSTEM

Ref.	Part.		Ref.	Part.	
No.	Number	Description		Number	Description
1	04040-15	Flatwasher, 5/16375 x .875 x .083	21	04020-02	Nut, 1/4-20
2	482317	Wire Harness, SCR	22	48029-23	Battery Cable, Black
3	482319	Wire Harness, Hopper	23	48029-22	Battery Cable, Red
4	48017-03	Lockwasher, Internal 5/8"	24	04001-44	Bolt, Hex Head 1/4-20 x 1/2"
5	48017-04	Nut, 5/8-32 Special	25	48030-18	Cable Clamp, Double
6	48017-02	Key & Ring (includes 2 keys)	26	04021-01	Nut, Elastic Stop #10
7	48798	Keyswitch w/hardware	27	42413	Bracket, Fuse Holder
8	48788	Relay	28	48298	Fuse, 20 Amp
9	04031-01	Lockwasher, #10 external tooth	29	481755	Ammeter
10	04020-01	Nut, #10-32 UNF	30	04030-04	Lockwasher, 3/8"
11	48023	Hour Meter	31	04001-18	Bolt, Hex Head
12	451185	Instrument Panel, Lower	32	04110-02	U-Nut, 5/16-18
13	04030-03	Lockwasher, 5/16	33	481183	Water Temp Gauge
14	04001-09	Bolt, Hex Head 5/16-18 x 1"	34	04010-11	Screw, #10-32 x 1-1/2"
15	04010-01	Screw, #10-32 x 1/2"	35	48430	Fuse Holder W/Fuse & Connector
16	482032	Control Cable	36	482157	Fuse, 15 Amp
17	481545	Switch, PTO	37	482400	Wire Harness, Engine SCR 27KA
18	481638	Switch, Seat			
19	481637	Switch, Brake & Hopper			
20	482313	Interlock Module			

#### -NOTE-

### **HOPPER**

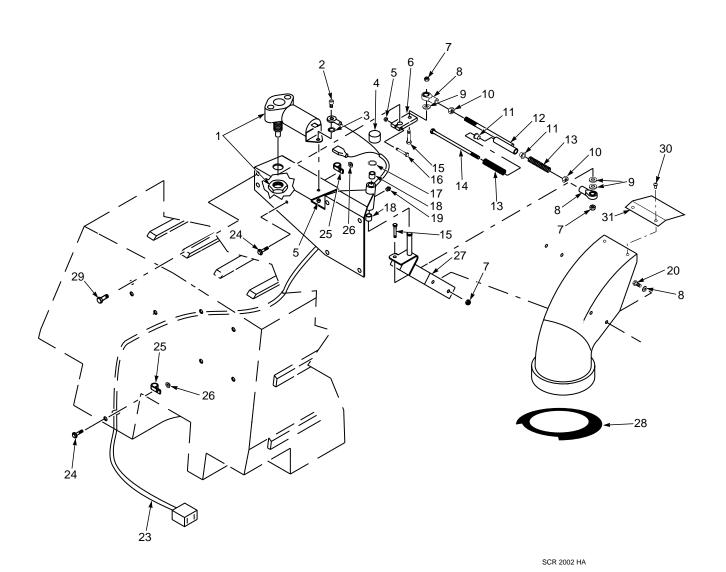


### **HOPPER**

Ref. No.	Part. Number	Description	Ref. No.	Part. Number	Description
1	04090-02	Pop Rivet, 3/16 x .652	40	422932	Backing Strip, Hinge
2	451193	Guide Weldment, Screen	41	423131	Backing Plate, Door Latch
3	04001-08	Bolt, Hex Head 5/16-18 x 3/4"	42	04003-26	Bolt, Carr. 3/8-16 x 4"
4	481092-01	•	43	481632	Wheel, Anti-Scalp
5	451191	Screen Weldment	44	04021-05	Lock Nut, 3/8-16
6	451289	Stop Weldment, Screen	45	04001-21	Bolt, Hex Head 3/8-16 x 1-3/4"
7	461474	Hopper Assembly (Incl. Items 1, 2, 4, 14, 16, 17,	46	04041-07	Flatwasher, 3/8391 x .938 x .105
•		21, 22, 24, 25, 37 & 54)	47	04019-02	Nut, Serr. Flange 1/4-20
8	481876	Split Ring	48	04003-02	Bolt, Carr. 1/4-20 x 3/4"
9	43548	Pin, Hopper Latch	49	423017	Bracket, Switch Mounting
10	04060-01	Roll Pin	50	43546	Bushing, Hopper Pivot
11	482070	Spring, Door Lock	51	04021-09	Nut, Elastic Stop 3/8-16
12	422872	Mount, Latch Pin	52	04021-09	Bolt, Hex Head 3/8-16 x 3-1/4"
13	04003-06	Bolt, Carr. 1/4-20 x 1"	53	482071	Strap Bucket Stop
14	422978	Support, Hopper Top	54	04041-22	Flatwasher, 1/4258 x .50 x .0598
15	04019-02	Nut, Serr. Flange 1/4-20	55	04041-22	Nut, Serr. Flange 5/16-18
16	04091-01	Pop Rivet, 1/4 x .85	33	04019-03	Nut, Gen. Flange 3/10-10
17	423178	Retainer Strip, Hopper			
18	04021-01	Nut, Elastic Stop #10-32			
19	482409	Latch, Hopper			
20	04010-12	Screw, #10-32 x 3/4"			
21	482073	Pad, Rubber Heat Deflector			
22	423130	Backing PLate, Heat Deflector			
23	04040-14	Flatwasher, 1/4312 x .750 x .065			
24	422037	Mount, Transition Chute Rear			
25	422228	Mount, Transition Chute Side			
26	481279	Chute, Transition			
27	04003-06	Bolt, Carr. 1/4-20 x 1"			
28	422871	Latch, Hopper Door			
29	04021-10	Nut, Elastic Stop 5/16-18			
30	451189	Hinge Weldment, Hopper Door			
31	04001-126	- ''			
32		Plastic Knob, 5/16-18			
33	43547	Pin, Hopper Door			
34	04060-08	Roll Pin, .188 x 1-1/2"			
35	04003-12	Bolt, Carr. 5/16-18 x 3/4"			
36	423128	Bracket, Door Latch			
37	451190	Hopper Frame Weldment			
38	04019-02	Nut, Serr. Flange 1/4-20			
39	481973	Door, Hopper			



### **HOPPER ACTUATOR MECHANISM**





### **HOPPER ACTUATOR MECHANISM**

254 M 15-05 C 31-01 V 285 C 21-01 H 291 L 21-10 H 072 R 40-15 F 20-13 H 354 E 99 C 344 S	Motor, Actuator Capscrew, Socket Head, #10-32 x 1/2" Washer, External Cap, Plastic Hex Locknut, Elastic Stop, #10-32 Lever, Actuator Hex Locknut, Elastic Stop, 5/16-18 Rod End, 5/16-24 R.H. Thread Flatwasher, 5/16 (.375 x .875 x .083) Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00" Bolt, Hex Head, 5/16-18 x 1-1/4"
15-05 C 31-01 V 285 C 21-01 F 291 L 21-10 F 072 R 40-15 F 20-13 F 354 E 99 C 344 S 01-124 E	Capscrew, Socket Head, #10-32 x 1/2"  Washer, External  Cap, Plastic  Hex Locknut, Elastic Stop, #10-32  Lever, Actuator  Hex Locknut, Elastic Stop, 5/16-18  Rod End, 5/16-24 R.H. Thread  Flatwasher, 5/16 (.375 x .875 x .083)  Hex Nut, 5/16-18  Bushing, Nylon  Connecting Rod  Spring, Connecting Rod  Bolt, Hex Head, 5/16-18 x 7.00"
15-05 C 31-01 V 285 C 21-01 F 291 L 21-10 F 072 R 40-15 F 20-13 F 354 E 99 C 344 S 01-124 E	Capscrew, Socket Head, #10-32 x 1/2"  Washer, External  Cap, Plastic  Hex Locknut, Elastic Stop, #10-32  Lever, Actuator  Hex Locknut, Elastic Stop, 5/16-18  Rod End, 5/16-24 R.H. Thread  Flatwasher, 5/16 (.375 x .875 x .083)  Hex Nut, 5/16-18  Bushing, Nylon  Connecting Rod  Spring, Connecting Rod  Bolt, Hex Head, 5/16-18 x 7.00"
31-01 V 285 C 21-01 H 291 L 21-10 H 072 R 40-15 F 20-13 H 354 E 99 C 344 S 01-124 E	Washer, External Cap, Plastic Hex Locknut, Elastic Stop, #10-32 Lever, Actuator Hex Locknut, Elastic Stop, 5/16-18 Rod End, 5/16-24 R.H. Thread Flatwasher, 5/16 (.375 x .875 x .083) Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
285 C 21-01 F 291 L 21-10 F 072 R 40-15 F 20-13 F 354 E 99 C 344 S 01-124 E	Cap, Plastic Hex Locknut, Elastic Stop, #10-32 Lever, Actuator Hex Locknut, Elastic Stop, 5/16-18 Rod End, 5/16-24 R.H. Thread Flatwasher, 5/16 (.375 x .875 x .083) Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
21-01 H 291 L 21-10 H 072 R 40-15 F 20-13 H 354 E 99 C 344 S 01-124 E	Hex Locknut, Elastic Stop, #10-32 Lever, Actuator Hex Locknut, Elastic Stop, 5/16-18 Rod End, 5/16-24 R.H. Thread Flatwasher, 5/16 (.375 x .875 x .083) Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
291 L 21-10 F 072 R 40-15 F 20-13 F 354 E 99 C 344 S 01-124 E	Lever, Actuator  Hex Locknut, Elastic Stop, 5/16-18  Rod End, 5/16-24 R.H. Thread  Flatwasher, 5/16 (.375 x .875 x .083)  Hex Nut, 5/16-18  Bushing, Nylon  Connecting Rod  Spring, Connecting Rod  Bolt, Hex Head, 5/16-18 x 7.00"
21-10 H 072 R 40-15 F 20-13 H 354 B 99 C 344 S 01-124 B	Hex Locknut, Elastic Stop, 5/16-18 Rod End, 5/16-24 R.H. Thread Flatwasher, 5/16 (.375 x .875 x .083) Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
072 R 40-15 F 20-13 H 354 E 99 C 344 S 01-124 E	Rod End, 5/16-24 R.H. Thread Flatwasher, 5/16 (.375 x .875 x .083) Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
40-15 F 20-13 H 354 E 99 C 344 S 01-124 E	Flatwasher, 5/16 (.375 x .875 x .083)  Hex Nut, 5/16-18  Bushing, Nylon  Connecting Rod  Spring, Connecting Rod  Bolt, Hex Head, 5/16-18 x 7.00"
20-13 H 354 B 99 C 344 S 01-124 B	Hex Nut, 5/16-18 Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
354 B 99 C 344 S 01-124 B	Bushing, Nylon Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
99 C 344 S 01-124 E	Connecting Rod Spring, Connecting Rod Bolt, Hex Head, 5/16-18 x 7.00"
344 S 01-124 E	Spring, Connecting Rod  Bolt, Hex Head, 5/16-18 x 7.00"
01-124 E	Bolt, Hex Head, 5/16-18 x 7.00"
01-10 E	Bolt, Hex Head, 5/16-18 x 1-1/4"
15-08 C	Capscrew, Socket Head, #10-32 x 1-1/2"
50-10 F	Retainer Ring
00-04 E	Bushing, Oilite, .502 ID
	Grease Fitting
	Bolt, Hex Head, 5/16-18 x 3/4"
	Chute
77 A	Actuator Mount
	Vire Harness, Hopper
	Bolt, Carr. 1/4-20 x 3/4"
	Clamp, Cable, 1/2"
	Serr. Fl. Hex Nut, 1/4-20
	Pivot, Elbow
	Seal, Hopper Elbow
	Body Bolt, 5/16-18 x .81"
06-01 P	Rivet
19- 78 408	02 \$ F 3 \$

#### -NOTE-

### REPLACEMENT DECALS AND INFORMATION PLATES





# (VIAIING DLADES AND DELIS \* Keep hands, feet & clothing clear \* Keep all guards in place \* Shut off engine & disengage blade clutch before servicing \* Use coution in directing discharge \* Read instruction manual before operating

DO NOT OPERATE UNLESS GRASS CATCHER, MULCHING KIT OR DISCHARGE CHUTE IS INSTALLED 2 MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS: 4, 487, 006 4, 885, 903 4, 920, 733 4, 967, 543 4,991,382 4,998,948 5,042,239 5,118,617 5,826,416 5,832,708 5,865,018 6,192,666 PATENTS PENDING

IMPORTANT SPINDLE BLADE BOLTS ARE LH THREAD 482182







### **WARNING**

**INSTALL BELT COVER BEFORE** OPERATING MACHINE





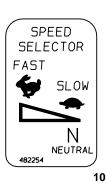
Clear area of children, bystanders & debris

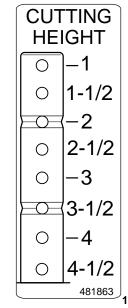
482288 Train operator

#### START / DRIVE PROCEDURE

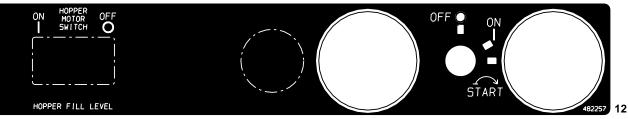
- ENGAGE PARKING BRAKE
- DISENGAGE MOWER DECK DRIVE
- MOVE SPEED SELECTOR HANDLES TO NEUTRAL POSITION
- START ENGINE
- RELEASE PARKING BRAKE
- SELECT SPEED WITH SELECTOR HANDLE
- SELECT FORWARD OR REVERSE DIRECTION WITH HYDRO **CONTROL HANDLES**

482167











SCR 2K RD1



### REPLACEMENT DECALS AND INFORMATION PLATES

Ref.	Part				
No.	No.	Description			
1	482285	Decal, Danger-Spining Blades			
2	482286	Decal, Warning-Rotating Blades			
3	48656	Decal, Patents			
4	482182	Decal, Blade Bolts LH Thread			
5	482080	Decal, Rotating Blades			
6	482255	Decal, Parking Brake			
7	481039	Decal, Belt Cover			
8	482288	Decal, Bystanders & Read Operator's Manual			
9	482167	Decal, Start and Drive Procedure			
10	482253	Decal, Forward Speed Selector			
11	481863	Decal, Cutting Height			
12	482257	Decal, Upper Instrument Panel - Kohler			
	482258	Decal, Upper Instrumant Panel - Kawasaki			
13	482259	Decal, Lower Instrument Panel			
14	481971	Decal, Heavy Duty			
15	48314	Decal, SCAG			
16	482052	Decal, Adjustments			
17	48406	Decal, 42" Cutter Deck			
	48318	Decal, 48" Cutter Deck			
	48319	Decal, 52" Cutter Deck			
18	48404	Decal, Made in the USA - Metalcraft of Mayville, Inc.			
19	482251	Decal, PTO Engagement			
20	482447	Decal, Driveshaft Grease			





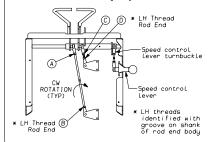
#### IMPORTANT ADJUSTMENT PROCEDURES READ OPERATOR'S MANUAL FOR MORE DETAILS

Check tire pressure - (Drive tires - 12 PSI, ALL others - 25 PSI)

NEUTRAL ADJUSTMENT

Adjust neutral only with drive wheels elevated and machine blocked securely. With speed control lever back to neutral, Apply brake and adjust turnbuckle until speed control lever back to neutral. Apply brake and adjust turnbuckle until speed control lever contacts brake lever. When completed, neutral can be adjusted on machine. If wheels rotate forward when brake is released, adjust control rods CCW. If wheels rotate rearward, adjust control rods CCW.

TRACKING ADJUSTMENT (Be sure both drive tires are inflated equally) If machine pulls to right, lossen jam nuts C & D on RH control rod and turn rod CW, tighten jam nuts and retest. If machine pulls to left, lossen jam nuts A & B on LH control rod and turn rod CW, tighten jam nuts and retest.



\* LH Thread ® Rod End

HYDRAULIC TANK FLUID LEVEL Check hydraulic fluid level daily while fluid is cool. Fluid level should be 2-1/2' below top of filler neck. Fill with SAE 20W50 motor oil only.

IMPORTANT!:

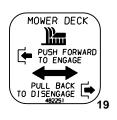
Do not overfill. Room for hot fluid expansion must be allowed or resulting expansion may cause leaks in the system.

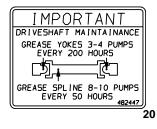
IMPORTANT GREASE SPINDLE, DRIVESHAFT AND BLOWER BEARINGS WEEKLY

LITHIUM MP WHITE GREASE 2125

FREE WHEEL OPERATION To move machine without running the engine, rotate both dump valve Levers Located at the front of the pumps CCW 1/2 turn to freewheet positions. Return Levers to original position to operate the mower. 48205.



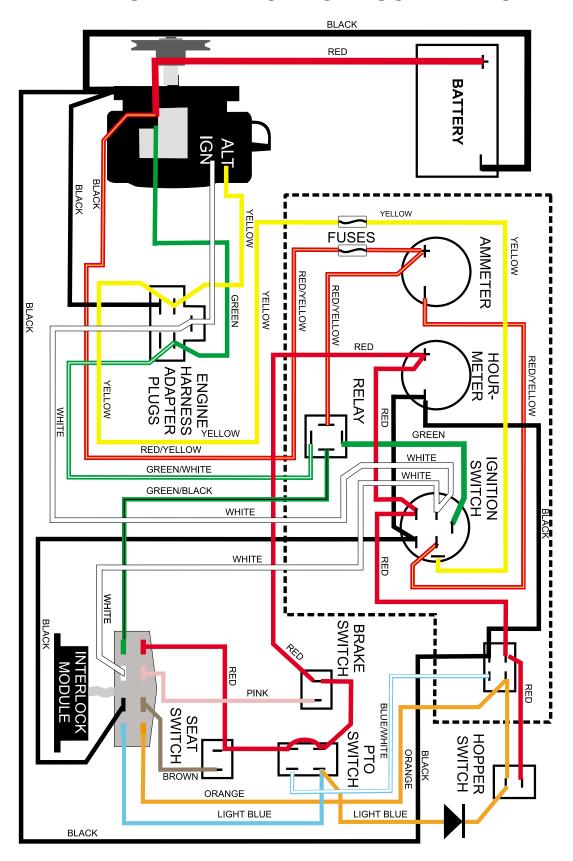




SCR 2K RD2



### KOHLER ELECTRICAL SCHEMATIC



### **LIMITED WARRANTY - COMMERCIAL EQUIPMENT**

Any part of the Scag commercial mower manufactured by Scag Power Equipment and found, in the reasonable judgment of Scag, to be defective in materials or workmanship, will be repaired or replaced by an Authorized Scag Service Dealer without charge for parts and labor. This warranty is limited to the original purchaser and is not transferable. Proof of purchase will be required by the dealer to substantiate any warranty claims. All warranty work must be performed by an Authorized Scag Service Dealer.

This warranty is limited to the following specified periods from the date of the original retail purchase for defects in materials or workmanship:

- \* Wear items including drive belts, blades, hydraulic hoses and tires are warranted for ninety (90) days.
- \* Batteries are covered for ninety (90) days.
- \* Frame and structural components including oil reservoir, fittings, and oil coolers are warranted for 2 years (Parts and labor 1st year; Parts only 2nd year).
- \* Cutter decks are warranted against cracking for a period of three (3) years. (Parts and labor 1st year; Parts only 2nd and 3rd year) The repair or replacement of the cutter deck will be at the option of Scag Power Equipment. We reserve the right to request components for evaluation. This warranty does not cover any mower that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual.
- \* Engines and electric starters are covered by the engine manufacturer's warranty period.
- \* Major drive system components are warranted for two (2) years by Scag Power Equipment. (Parts and labor 1st year; Parts only 2nd year) (Two year warranty exclude fittings, hoses, drive belts). The repair or replacement of the hydraulic pump or hydraulic motor will be at the option of Scag Power Equipment. This warranty does not cover any mower that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual.
- \* Electric clutches have a Limited Warranty for 2 year (Parts and labor 1st year; Parts only 2nd year).
- \* Cutter Spindle Assemblies 46631 have a Limited Warranty for three years (Parts and labor 1st year; Parts only 2nd and 3rd year).
- \* Any Scag product used for rental purposes is covered by a 90 day warranty.

The Scag mower, including any defective part must be returned to an Authorized Scag Service Dealer within the warranty period. The expense of delivering the mower to the dealer for warranty work and the expense of returning it to the owner after repair will be paid for by the owner. Scag's responsibility is limited to making the required repairs and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Scag mower.

This warranty does not cover any mower that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual. The warranty does not apply to any damage to the mower that is the result of improper maintenance, or to any mower or parts that have not been assembled or installed as specified in the Operator's Manual and Assembly Manual. The warranty does not cover any mower that has been altered or modified, changing performance or durability. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which, in the reasonable judgment of Scag, are either incompatible with the Scag mower or adversely affect its operation, performance or durability.

Scag Power Equipment reserves the right to change or improve the design of any mower without assuming any obligation to modify any mower previously manufactured. All other implied warranties are limited in duration to the two (2) year warranty period or ninety (90) days for mowers used for rental purpose. Accordingly, any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the appropriate two year or ninety day warranty period. Scag's obligation under this warranty is strictly and exclusively limited to the repair or replacement of defective parts and Scag does not assume or authorize anyone to assume for them any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Scag assumes no responsibility for incidental, consequential or other damages including, but not limited to, expense for gasoline, expense of delivering the mower to an Authorized Scag Service Dealer and expense of returning it to the owner, mechanic's travel time, telephone or telegram charges, rental of a like product during the time warranty repairs are being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the mower, loss of time or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



### KAWASAKI ELECTRICAL SCHEMATIC

