



# Parts & Maintenance Manual

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## Greens King IV

62287 – 16 HP Briggs Vanguard Engine

## Greens King IV Plus

62288 – 18 HP Briggs Vanguard Engine

62289 – 19 HP Kubota D662-EB Engine



*WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.*

# To Order Parts

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1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate located on the left rear frame of your product.
4. Order by the quantity desired, the part number, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Jacobsen Dealer.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

**Use of other than Jacobsen  
authorized parts and accessories will void the warranty.**

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# Suggested Stocking Guide

To Keep your Equipment fully operational and productive, Jacobsen suggests you maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids.

To order any of the following material:

1. Write your full name and complete address on your order form.
2. Explain where and how to make shipment:
  - UPS
  - Overnight
  - Regular Mail
  - 2nd Day
3. Order by the quantity desired, the part number, and the description of the part.
4. Send or bring the order to your authorized Jacobsen Dealer.

## Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	5000440	Gasoline Engine Oil Filter		558022	Hydraulic Oil Filter
	5000441	Gasoline Engine Air Filter		5000442	Gas Filter Kit (Oil, Air, Fuel and Hyd.)
	5000436	Gasoline Engine Fuel Filter			
	554011	Diesel Engine Oil Filter			
	5000913	Diesel Engine Air Filter			
	5000436	Diesel Engine Fuel Filter			

## Service Support Material

Qty.	Part No.	Description
	2811456	Safety & Operation Manual
	2811457	Parts & Maintenance
	5001525	Video, Operator Training

Qty.	Description
	Service Manual

## How To Use This Manual

### Abbreviations

**N/S** - Not serviced separately, can only be obtained by ordering main component or kit.

**AR** - Variable quantity or measurement is required to obtain correct adjustment.

**Symbols** such as ●, next to the item number, indicate that a note exists which contains additional information important in ordering that part.

### Bulleted Items

Bulleted items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separately or as part of the main component.

Item	Part No.	Qty	Description	Serial Numbers/Notes
● 1	123456	1	Mount, Valve	<i>Indicates a piece part</i>
2	789012	1	Valve, Lift	<i>Includes Items 2 and 3</i>
3	345678	1	• Handle	<i>Serviced part included with Item 2</i>
4	N/S	1	• Seal Kit	<i>Non serviced part included with Item 2</i>
5	901234	1	Screw, 1/4-20 x 2" Hex Head	

# 1 SAFETY

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## 1.1 OPERATING SAFETY

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### WARNING

**EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.**

Familiarize yourself with the location and proper use of all controls. Inexperienced operator's should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Safety and Operation Manual, engine manual, accessories and attachments). If the operator can not read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears hands and feet. Operate the machine only in daylight or in good artificial light.
6. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.) Enter a new area cautiously. Stay alert for hidden hazards.
7. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders and damage to property.
8. Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors or other protective devices securely fastened in place.
9. Never disconnect or bypass any switch.
10. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.
11. Fuel is highly flammable, handle with care.
12. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
13. Disengage all drives and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
14. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads.
15. Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
16. Operate the machine up and down the face of the slopes (vertically), not across the face (horizontally).
17. To prevent tipping or loss of control, do not start or stop suddenly; reduce speed when making sharp turns. Use caution when changing direction on slopes.
18. Always use the seat belt when operating tractors equipped with a ROPS.  
*Never use a seat belt when operating tractors without a ROPS.*
19. Keep legs, arms and body inside the seating compartment while the vehicle is in motion.

***This machine is to be operated and maintained as specified in this manual and is intended for the professional maintenance of specialized turf grasses. It is not intended for use on rough terrain or long grasses.***

## 1.2 IMPORTANT SAFETY NOTES



This safety alert symbol is used to alert you to potential hazards.

**DANGER** - Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

**WARNING** - Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

**CAUTION** - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

*For pictorial clarity, some illustrations in this manual may show shields, guards or plates open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place*



### WARNING

The Interlock system on this tractor prevents the tractor from starting unless the brake lever is engaged, reel levers are off and traction lever is in neutral. The system will stop the engine if the operator leaves the seat without engaging the parking brake, setting the reel levers to off and placing traction lever in Neutral.

NEVER operate tractor unless the Interlock system is working.



### WARNING

1. Before leaving the operator's position for any reason:
  - a. Return traction lever to neutral.
  - b. Disengage all drives.
  - c. Lower all implements to the ground.
  - d. Engage parking brake.
  - e. Stop engine and remove the ignition key.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Never carry passengers, unless a seat is provided for them.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service. **Use of other than original or authorized Jacobsen parts and Accessories will void the warranty.**

## 2 SPECIFICATIONS

### 2.1 PRODUCT IDENTIFICATION

- 62287 ..... Greens King IV, 16 hp gasoline engine, manual steering. Without battery, seat, or mowers.
- 62288 ..... Greens King IV Plus, 18 hp gasoline engine, power steering. Without battery, seat, or mowers.
- 62289 ..... Greens King IV Plus, 19 hp diesel engine, power steering. Without battery, seat, or mowers.
- Serial Number ..... An identification plate, like the one shown, listing the serial number, is attached to the frame of the tractor near the battery.

Always provide the serial number of the unit when ordering replacement parts or requesting service information.



Product	EEC Sound Power	Sound Pressure Level Operator Ear	Vibration M/S <sup>2</sup>	
			Arms	Body
62287	100.8 dba	83.0 dba	2.5	1.2
62288	<105 dba	<90 dba	3.2	0.9
62289	<105 dba	<90 dba	3.2	0.9

### 2.2 ENGINE

#### Gasoline Engine

- Make ..... Briggs & Stratton
- Model ..... Vanguard V-Twin OHV
- Horsepower (GK IV) ..... 16 hp (12 kW) @ 3600 rpm
- Horsepower (GK IV Plus) .... 18 hp (13.5 kW) @ 3600 rpm
- Displacement (GK IV) ..... 29.3 cu. In. (480 cc)
- Displacement (GK IV Plus) .. 34.8 cu. In. (570 cc)
- Torque ..... 26 ft. lbs. (35 Nm) @ 2600 rpm
- Fuel:
- Type ..... Unleaded Gasoline
- Rating ..... Min. 85 Octane
- Capacity ..... 5 U.S. Gal. (18.9 liters)
- Governor ..... Flyweight Mechanical
- Lubrication:
- Capacity ..... 3.5 pints (1.4 liters)
- Type ..... SAE 30W
- API Classification ..... SF, SG, SH
- Air Filter ..... Replaceable Dual Element.
- Alternator ..... 16 amp
- Cooling System ..... Air Cooled

#### Diesel Engine

- Make ..... Kubota
- Model ..... D662-EB
- Horsepower ..... 19 hp (13.8 kW) @ 3600 rpm
- Displacement ..... 40.03 cu. In. (656 cc)
- Torque ..... 26 ft. lbs. (35 Nm) @ 2600 rpm
- Fuel:
- Type ..... No. 2 Diesel
- Rating ..... Min. Cetane rating 45
- Capacity ..... 5 U.S. Gal. (18.9 liters)
- Governor ..... Ball Type Governor
- Low Idle ..... 1100 RPM
- High Idle ..... 3400 RPM
- Lubrication:
- Capacity ..... 3.4 quarts (3.2 liter) with filter
- Type ..... SAE 20W, SAE 30W
- API Classification ..... CD, CE
- Air Filter ..... Dry type with evacuator valve and service indicator.
- Alternator ..... 40 amp
- Cooling System ..... Liquid Cooled
- Capacity ..... 3qt. (2.8 l) 50/50 water ethylene glycol mix

### 2.3 CUTTING UNITS:

- Reel ..... 3 Reels, 22 in. (559 mm) wide.
- Reel Diameter ..... 5 in. (127 mm)
- Blade Options ..... 5, 7, 9 or 11 blades
- Cutting Width ..... 62 in. (1574 mm)

#### Cutting Frequency:

- 5 Blade ..... 0.117 in./mph (1.85 mm/kph)
- 7 Blade ..... 0.084 in./mph (1.33 mm/kph)
- 9 Blade ..... 0.065 in./mph (1.03 mm/kph)
- 11 Blade ..... 0.053 in./mph (0.84 mm/kph)

## 2.4 TRACTOR

Tires .....	18 x 9.5 - 8 tubeless	Transport .....	0 - 6.6 mph (10.6 kph)
Pressure:.....	8-12 psi (55-83 kPa)	Reverse .....	0 - 3.5 mph (5.6 kph)
Battery:		Hydraulic System:	
Type .....	12 Volt Lead/Acid	Capacity.....	5 U.S. gal. (19 liters) System
Group .....	22 GMF	Fluid Type.....	GreensCare 46 Biodegradable
Parking Brake .....	Mechanical front drum brakes	Filter.....	Full Flow 20 micron
	Hand lever actuated	Steering .....	Hydrostatic power steering
Speed:		Mower Lift .....	Hydraulic Double Acting Cylinders
Mow .....	0 - 3.7 mph (5.9 kph)		

## 2.5 WEIGHTS AND DIMENSIONS

Dimensions:	Inches	(mm)	Weights:	Lbs.	(kg)
Length - Grass Catchers On .....	99.5	(2526)	Working Weight Less Operator		
Height - Steering Wheel Up .....	51.5	(1308)	62287 .....	1150	(522)
Wheel Base.....	52.8	(1341)	62288 .....	1150	(522)
Width - Transport Position .....	68	(1727)	62289 .....	1340	(609)
Width - Mowing Position .....	70	(1778)			
Width - Wheel .....	50.5	(1283)			
Turning Radius.....	18	(457)			

## 2.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Jacobsen Dealer for a complete listing of accessories and attachments.



### CAUTION

Use of other than Jacobsen authorized parts and accessories may cause personal injury or damage to the equipment and will void the warranty

#### Accessories

Air Blow Gun .....	JAC5098
Orange Touch-up Paint (12 oz. spray).....	554598
Arm Rest .....	66156
Grass Catcher .....	67891
Brush, 62" .....	68623
Fine Bristle Brush.....	68536
Green Sentry II Oil System Monitor .....	68669
Light Kit .....	2811910
Motor / Light / Brush Mounting Kit.....	2811909
Rear Roller Cleaner .....	68643
Quick Roller (Set of 3).....	68664
Spiker (Set of 3) .....	68665
Traction Tire (Set of 2) .....	62616
Turf Groomer 1/4" Spacing R.H. (2 Required) .....	67870
Turf Groomer 1/4" Spacing L.H. (1 Required).....	67871
Turf Groomer 1/2" Spacing R.H. (2 Required) .....	67872
Turf Groomer 1/2" Spacing L.H. (1 Required).....	67873
Vertical Mower L.H. (1 Required).....	68549
Vertical Mower R.H. (2 Required) .....	68550
Variable Step Cut.....	68551
High Cut Roller Kit .....	68594
MagKnife Kit.....	4131021

#### Reels

5 Blade Reel L.H. (1 Required).....	68586
5 Blade Reel R.H. (2 Required).....	68587
7 Blade Reel L.H. (1 Required).....	68588
7 Blade Reel R.H. (2 Required).....	68589
9 Blade Reel L.H. (1 Required).....	68599
9 Blade Reel R.H. (2 Required).....	68600
11 Blade Reel L.H. (1 Required).....	68621
11 Blade Reel R.H. (2 Required).....	68622

#### Rollers

Grooved Front Roller .....	68527
Solid Roller .....	68530
High Cut Roller 3/4 in.....	68594
Grooved Front Roller (Steel).....	68613
Grooved Front Roller (Aluminum).....	68614
Grooved Rear Roller.....	68580

#### Support Literature

Safety & Operation Manual.....	2811456
Parts & Maintenance Manual.....	2811457
Diesel Engine Parts Catalog.....	3004386
Operator Training Video .....	5001525
Service & Repair Manual	

# 3 ADJUSTMENTS

## 3.1 GENERAL

### WARNING

To prevent injury, lower implements to the ground, disengage all drives, engage parking brake, stop engine and remove key from ignition switch before making any adjustments or performing maintenance.

Make sure the tractor is parked on a solid and level surface. Never work on a tractor that is supported only by the jack. Always use jack stands.

If only the front or rear of the tractor is raised, place chocks in front of and behind the wheels that are not raised.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper

adjustment cannot be made, contact an authorized Jacobsen Dealer.

2. Replace, do not adjust, worn or damaged components.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.

### CAUTION

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

## 3.2 BEDKNIFE-TO-REEL

(Pre-adjustment Check)

1. Check the reel bearings for end play or radial play. There should be no end play or radial play. See Section 3.20.
2. Inspect the reel blades and bedknife to insure good sharp edges without bends or nicks.
  - a. The leading edge of the reel blades (**B**) must be sharp, free of burrs and show no signs of rounding off.
  - b. The bedknife and bedknife backing must be securely tightened. The bedknife must be straight and sharp.
  - c. A flat surface of at least 1/16 in. (1.5 mm) minimum must be maintained on the front face of the bedknife. Use a standard flat file to dress the bedknife.
3. If wear or damage is beyond the point where the reel or bedknife can be corrected by the lapping process, they must be reground.
4. Proper reel-to-bedknife adjustment is critical. A gap of 0.001 to 0.003" (0.025 to 0.076 mm) must be maintained across the entire length of the reel and bedknife.
5. The reel must be parallel to the bedknife. An improperly adjusted reel will lose its sharp edges prematurely and may result in serious damage to the reel and bedknife.
6. Grass conditions will also affect the adjustment.

- a. Dry, sparse conditions will require a wider gap to prevent heat buildup and damage to the reel and bedknife.
- b. High quality grass with a good moisture content requires a closer gap (near zero).

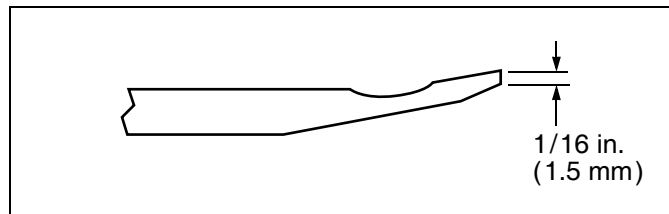


Figure 3A

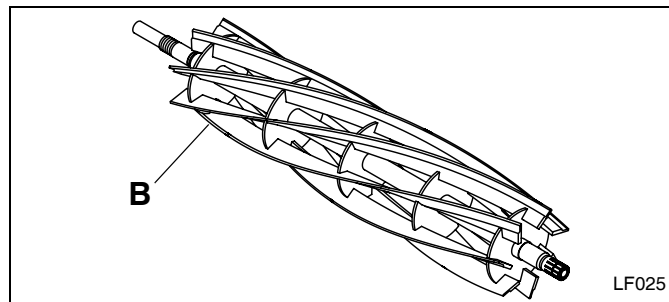


Figure 3B



## 3.3 BEDKNIFE ADJUSTMENT

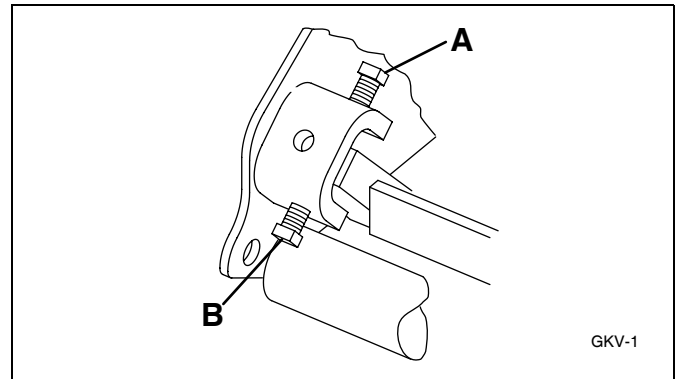
1. Read Section 3.2 before making the adjustment.
2. Start adjustment at the leading end of the reel, followed by the trailing end. *The leading end of the reel blades is that end which passes over the bedknife first during normal reel rotation.*

**CAUTION**

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

3. Use adjusters **(A and B)**, to adjust gap. Loosen bottom adjuster **(B)** and turn top adjuster **(A)** down (Clockwise) to close gap.
  - a. Slide a feeler gauge or shim stock 0.001" - 0.003" (0.025 - 0.075 mm) between the reel blade and the bedknife. Do not turn the reel.
  - b. Adjust the trailing end of the reel to the same gap in a similar manner then recheck the adjustment at the leading end.

- c. When the reel is properly adjusted to the bedknife, the reel will spin freely and you should be able to cut a piece of newspaper, along the full length of the reel, when the paper is held at 90° to the bedknife.



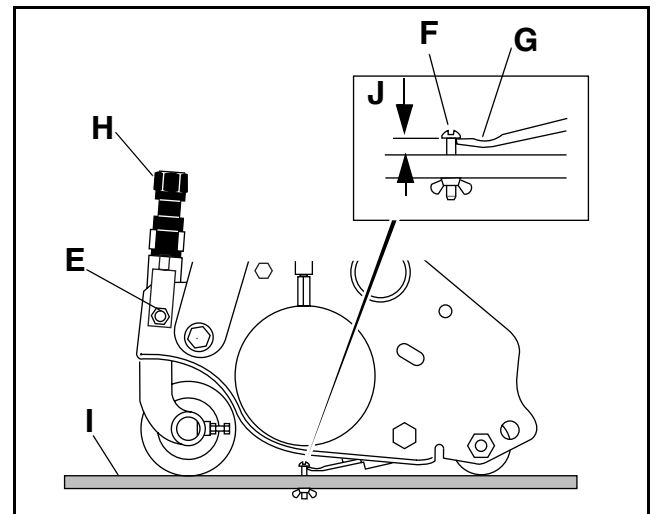
**Figure 3C**

**Note:** Avoid excessive tightening or serious damage may result to bedknife and reel blades. Reels must turn freely.

## 3.4 CUTTING HEIGHT

**Note:** Always make the bedknife to reel adjustment before adjusting height of cut. (Sections 3.2 and 3.3).

1. Raise mowers to transport position then engage the parking brake, stop engine and remove key from ignition switch.
2. Set desired cutting height on the gauge **(I)**.
  - a. Measure distance **(J)** between the underside of screw head and gauge block surface.
  - b. Adjust screw **(F)** to obtain desired height then tighten the wing nut.
3. Loosen the locknuts on the front roller brackets **(E)** just enough to allow the adjuster knob **(H)** to raise or lower the front roller.
4. Place gauge **(I)** across bottom of front and rear rollers near one end of roller.
5. Slide the head of gauge screw over the bedknife **(G)** and adjust the knob **(H)** to close the gap between the screw head and bedknife. Then tighten locknut **(E)**.
6. Repeat Steps 4 and 5 on opposite end. Complete adjustment to one end before adjusting opposite end.
7. Tighten locknuts **(E)** and recheck each end.



**Figure 3D**

## 3 ADJUSTMENTS

### 3.5 ANTISWAY SPRING

1. The antisway spring (C) should be tight but not under stress.
2. Loosen both nuts on the adjusting rod then adjust the rear nut as necessary.
3. When properly adjusted, tighten nuts against bracket.

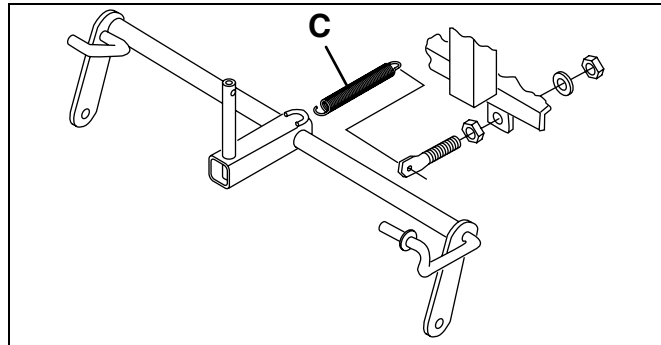


Figure 3E

### 3.6 ACCELERATOR PEDAL

1. The top of the pedal should not be less than 2-3/4" (70 mm) from the floorboard when pedal is fully depressed.
2. Loosen locknut (D) and adjust carriage bolt (E) to obtain the correct distance between pedal and floorboard.

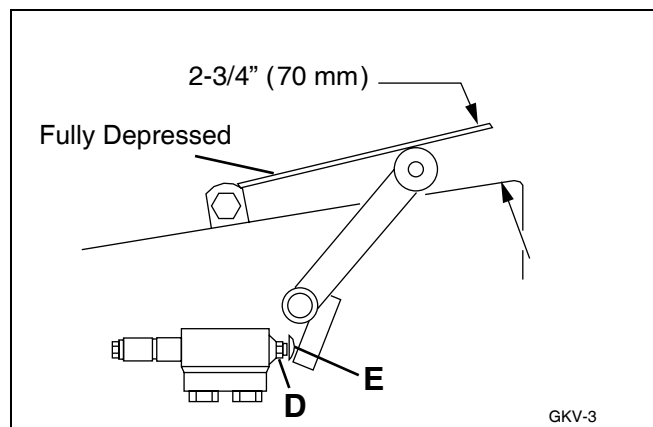


Figure 3F

### 3.7 BRAKE PEDAL

1. Drive straight forward with traction lever in "MOW" position and throttle in "SLOW" position. Depress Brake pedal. If the brake pedal comes too close to the floorboard, check the amount of brake lining left.
  - a. Replace lining.
  - b. Adjust nut (F) to obtain a distance of 3-5/16" (84 mm), between rod pivot points, (when brakes are new), and to compress spring to 31/32" (24 mm).
2. If machine pulls right, turn adjusting nut (F) on left side clockwise. If machine pulls left, turn adjusting nut (F) on left side counterclockwise. Do not compress either spring past 7/8" (22 mm)

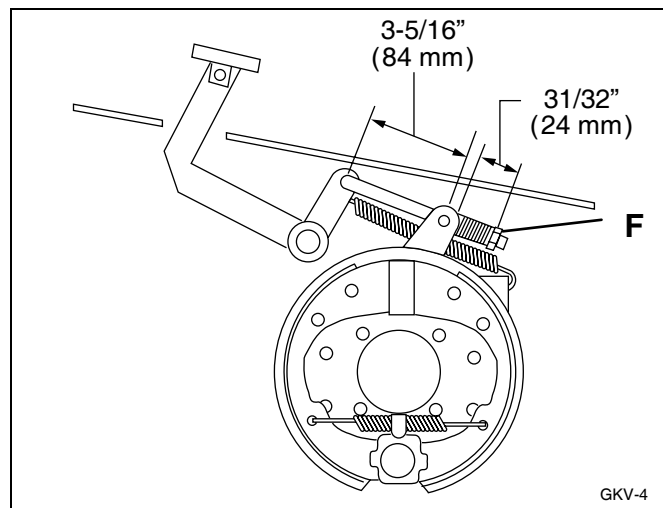


Figure 3G

## 3.8 PARKING BRAKE

Disengage brake lever and measure the distance between nut (**G**) and bottom of pivot. Adjust nut so the distance is 3/16" (5 mm).

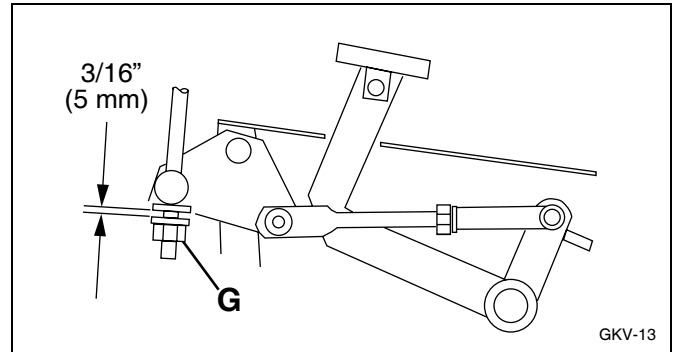


Figure 3H

## 3.9 INTERLOCK SWITCHES

1. Refer to the Interlock System check in your Safety & Operation manual. If the system **fails** any test listed, adjustment or replacement of the switches or levers is required
2. Remove the front cowling and check the control linkages to be sure they are properly adjusted (Sections 3.8, 3.10 and 3.12).

3. Check switches to make sure they are working properly.

### CAUTION

Never operate equipment with damaged switches.  
Replace faulty switches immediately.

## 3.10 TRACTION LEVER

1. Remove front cowling and adjust lever to align with the four positions on the instrument panel.
2. Adjust ball joints (**M**) on rod (**N**) and/or adjust position and number of washers (**P**) for proper alignment. The lever must engage neutral start switch in "NEUTRAL" position only.

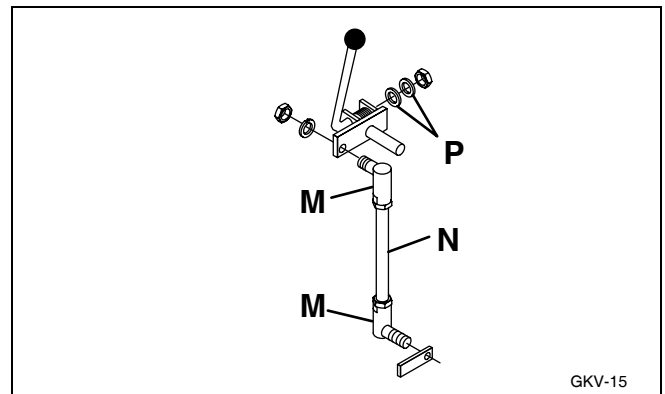


Figure 3I

## 3.11 CHOKE CONTROL

### Gas Engines Only

1. Push choke control knob to the "Off" Position.
2. Set Choke lever at carburetor to "Off" (butterfly open) position.

3. Adjust control wire (at the carburetor) then clamp wire housing in place while keeping choke butterfly open and the control knob in the "Off" position.

## 3 ADJUSTMENTS

### 3.12 REEL CONTROL

Adjust the reel control lever linkage so the reels disengage when they reach the raised position.

1. Remove front cowling and raise mowers. Shift all reel control levers to "OFF" and stop engine.
2. Adjust link (R) so there is 1/32 to 1/16 in. (0.8 to 1.6 mm) clearance between the bottom of the shoulder bolt (S) and the bottom of the slot in link (R).
3. Remove all hardware holding link (R) in place then loosen nut (T) and adjust the link.
4. Tighten nut (T) against the link. Reassemble all components and tighten hardware.

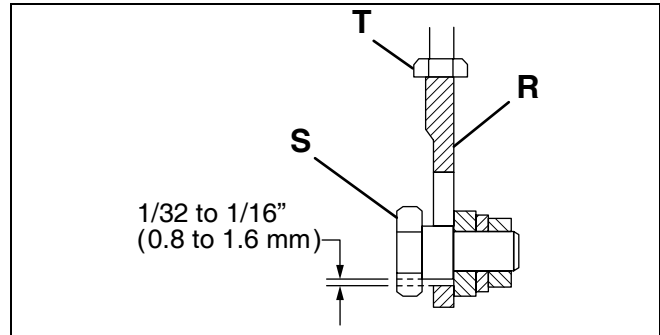


Figure 3J

### 3.13 REEL SWITCHES

The reel lever linkage actuates two electrical switches located under the levers. Check that both switches are closed when all reel levers are in their NEUTRAL position.

1. Check and make sure switches are wired correctly. Refer to **Figure 3K** and labels attached to wires for correct terminal placement
2. When any of the reel levers are moved to the forward position, Reel Switch (Wires A and B) should open, and Backlap Switch (Wires C and D) should remain closed.
3. When any of the reel levers are moved to the reverse position, Backlap Switch (Wires C and D) should open and Reel Switch (Wires A and B) should remain closed.

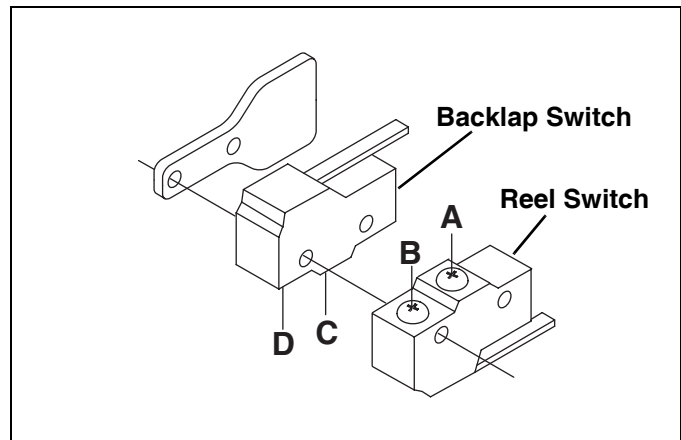


Figure 3K

### 3.14 STEERING WHEEL (GK IV UNITS ONLY)

1. Loosen cable mounting nut (BB) or (CC) as necessary and tighten opposite nut until steering wheel is square with the frame and tractor runs straight ahead.
2. After steering wheel is adjusted, adjust both cable mounting nuts until there is 1/2 to 5/8" (13 to 16 mm) deflection in center of cables with a 10 pound (4.5 Kg) pull.

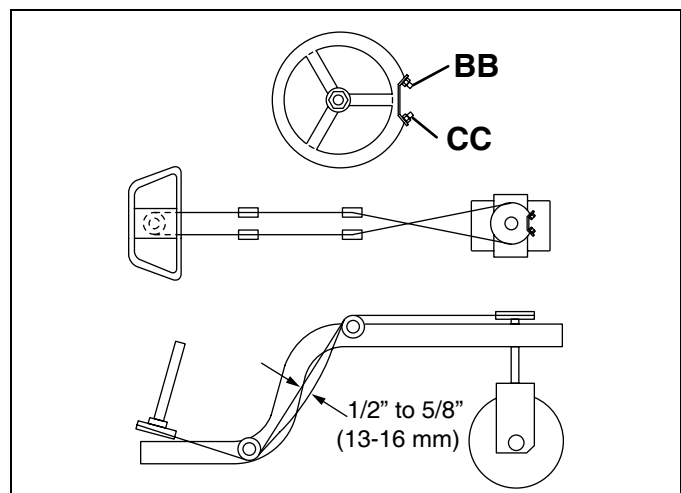


Figure 3L

## 3.15 LEVELING PROCEDURE

1. Lower the implements until they are about 1/4" (6.35 mm) above the ground. If they are not level with the ground, adjust torsion spring (Z).

### WARNING

The torsion spring is under extreme tension and will tend to uncoil very rapidly if the clamp is loosened. To prevent being cut by clamp or spring, unwind spring by tapping on clamp while slowly loosening nut.

2. Carefully loosen spring mounting clamp and slowly turn clamp until implement is level. Tighten clamp securely.

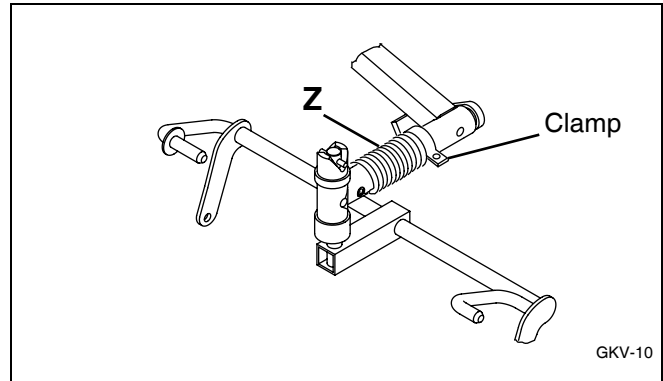


Figure 3M

## 3.16 REEL BEARING

Any end play or radial play indicates bad bearings, a weak tension spring or a backed off nut.

1. Check bearing housing mounting hardware. Tighten or replace components as required. Carefully clean threads with degreaser.
2. Apply a medium strength grade of Loctite to nut (AA), then thread nut onto the reel shaft until the nut is 1-27/32" (46 mm) from the end of the reel shaft.
3. Fill reel bearing housings with NLGI - Grade O grease after adjusting spring.

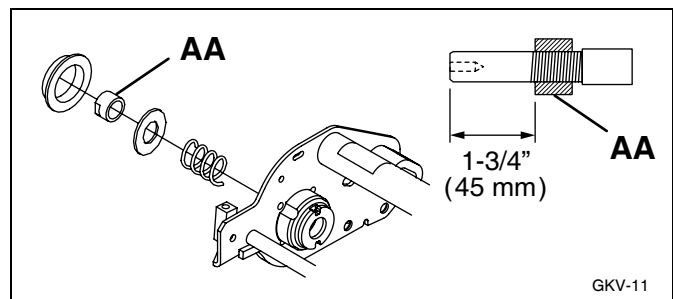


Figure 3N

## 3.17 FAN BELT (DIESEL ENGINES)

Inspect and adjust new belt after first ten hours of operation. Adjust every 100 hours thereafter.

1. Adjust alternator pulley so belt (B) deflects 9/32 to 11/32 in. (7 to 9 mm) with a 22 lb. (10 kgf) push at mid span between pulleys.
2. If tension is incorrect, loosen alternator mounting bolts (A) and adjust alternator until proper belt tension is achieved. Tighten hardware (A)

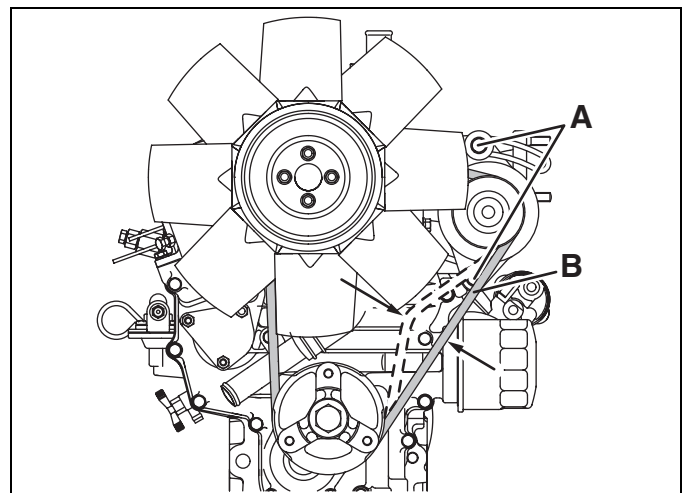


Figure 3O

## 3 ADJUSTMENTS

### 3.18 LIFT CYLINDERS

1. Fully extend the front cylinder, then check spacing at the cam roller (**U**). The dimension should be 7/16 to 9/16 in. (11.1 to 14.2 mm).
2. Loosen nut (**V**) then grip the very end of the cylinder rod, close to the adjusting nut (**point W**) and turn until spacing is correct. Tighten nut (**V**).
3. Loosen nut (**X**) on the rear lift cylinder. Adjust the rod end (**Y**) until the lift arm (**O**) just touches the stop bracket when the cylinder is fully retracted.

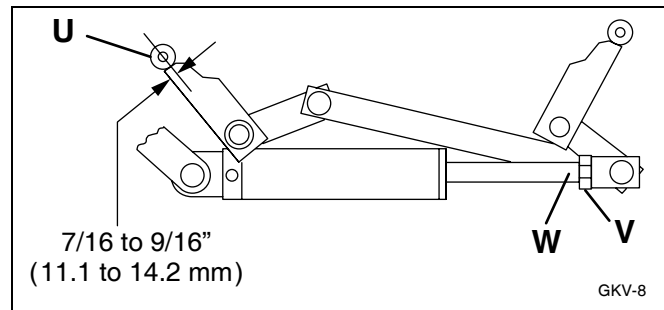


Figure 3P

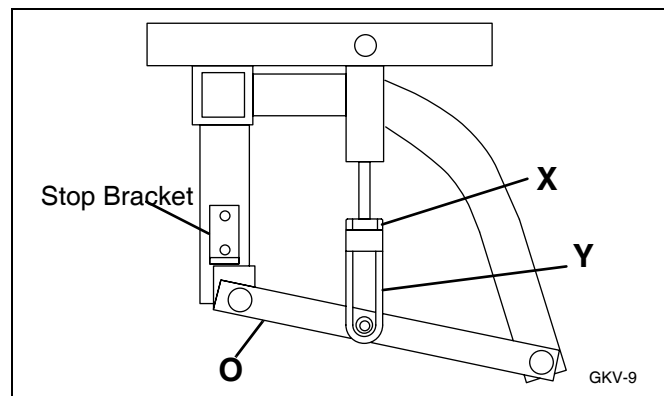


Figure 3Q

### 3.19 SPECIFIC TORQUE REQUIREMENTS

1. Ball joints: 30 - 35 ft. lb., (40.5 - 47.2 N.m).
2. Bedknife shoe: 25 - 37 ft. lb., (34 - 50 N.m).
3. Brake drum and hub to wheel motor: 90 - 100 ft. lb., (122 - 135 N.m).
4. **GK IV Plus Only:** Steering wheel nut 25-30 ft. lb., (34-41 N.m)
5. **GK IV Plus Only:** Steering cylinder ball joints (2): 50 - 55 ft. lb., (67.5 - 74.2 N.m)
6. Wheel mounting hardware 65-85 ft. lb., (88 - 115 N.m). Check and retorque daily until torque is maintained.
7. **GK IV Only:** Rear steering pulley: 50 - 60 ft. lb., (67.5 - 81 N.m).
8. Engine drain plug 22 ft. lb., (29.7 N.m).





## 3.20 TORQUE SPECIFICATION

### CAUTION





All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Jacobsen is not responsible for any loss, claim, or damage arising from the use of these charts.  
**Extreme caution should always be used when using any torque value.**

Jacobsen uses Grade 5 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

#### AMERICAN NATIONAL STANDARD FASTENERS

SIZE	UNITS					SIZE	UNITS				
		GRADE 5		GRADE 8				GRADE 5		GRADE 8	
		Lubricated	Dry	Lubricated	Dry			Lubri-cated	Dry	Lubri-cated	Dry
#6-32	in-lb (Nm)	–	20 (2.3)	–	–	7/16-14	ft-lb (Nm)	37 (50.1)	50 (67.8)	53 (71.8)	70 (94.9)
#8-32	in-lb (Nm)	–	24 (2.7)	–	30 (3.4)	7/16-20	ft-lb (Nm)	42 (56.9)	55 (74.6)	59 (80.0)	78 (105)
#10-24	in-lb (Nm)	–	35 (4.0)	–	45 (5.1)	1/2-13	ft-lb (Nm)	57 (77.2)	75 (101)	80 (108)	107 (145)
#10-32	in-lb (Nm)	–	40 (4.5)	–	50 (5.7)	1/2-20	ft-lb (Nm)	64 (86.7)	85 (115)	90 (122)	120 (162)
#12-24	in-lb (Nm)	–	50 (5.7)	–	65 (7.3)	9/16-12	ft-lb (Nm)	82 (111)	109 (148)	115 (156)	154 (209)
1/4-20	in-lb (Nm)	75 (8.4)	100 (11.3)	107 (12.1)	143 (16.1)	9/16-18	ft-lb (Nm)	92 (124)	122 (165)	129 (174)	172 (233)
1/4-28	in-lb (Nm)	85 (9.6)	115 (13.0)	120 (13.5)	163 (18.4)	5/8-11	ft-lb (Nm)	113 (153)	151 (204)	159 (215)	211 (286)
5/16-18	in-lb (Nm)	157 (17.7)	210 (23.7)	220 (24.8)	305 (34.4)	5/8-18	ft-lb (Nm)	128 (173)	170 (230)	180 (244)	240 (325)
5/16-24	in-lb (Nm)	173 (19.5)	230 (26.0)	245 (27.6)	325 (36.7)	3/4-10	ft-lb (Nm)	200 (271)	266 (360)	282 (382)	376 (509)
3/8-16	ft-lb (Nm)	23 (31.1)	31 (42.0)	32 (43.3)	44 (59.6)	3/4-16	ft-lb (Nm)	223 (302)	298 404	315 (427)	420 (569)
3/8-24	ft-lb (Nm)	26 (35.2)	35 (47.4)	37 (50.1)	50 (67.8)	7/8-14	ft-lb (Nm)	355 (481)	473 (641)	500 (678)	668 (905)

#### METRIC FASTENERS

SIZE	UNITS									Non Critical Fasteners into Aluminum
		4.6		8.8		10.9		12.9		
		Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	
M4	Nm (in-lb)	–	–	–	–	–	–	3.83 (34)	5.11 (45)	2.0 (18)
M5	Nm (in-lb)	1.80 (16)	2.40 (21)	4.63 (41)	6.18 (54)	6.63 (59)	8.84 (78)	7.75 (68)	10.3 (910)	4.0 (35)
M6	Nm (in-lb)	3.05 (27)	4.07 (36)	7.87 (69)	10.5 (93)	11.3 (102)	15.0 (133)	13.2 (117)	17.6 (156)	6.8 (60)
M8	Nm (in-lb)	7.41 (65)	9.98 (88)	19.1 (69)	25.5 (226)	27.3 (241)	36.5 (323)	32.0 (283)	42.6 (377)	17.0 (150)
M10	Nm (ft-lb)	14.7 (11)	19.6 (14)	37.8 (29)	50.5 (37)	54.1 (40)	72.2 (53)	63.3 (46)	84.4 (62)	33.9 (25)
M12	Nm (ft-lb)	25.6 (19)	34.1 (25)	66.0 (48)	88.0 (65)	94.5 (70)	125 (92)	110 (81)	147 (108)	61.0 (45)
M14	Nm (ft-lb)	40.8 (30)	54.3 (40)	105 (77)	140 (103)	150 (110)	200 (147)	175 (129)	234 (172)	94.9 (70)

# 4 MAINTENANCE

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## 4.1 GENERAL

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### WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine and remove key from ignition switch to prevent injuries

Make sure the tractor is parked on a solid and level surface. Never work on a tractor that is supported only by the jack. Always use jack stands.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule and keep detailed records.
  - a. Keep the equipment clean.

- b. Keep all moving parts properly adjusted and lubricated.
  - c. Replace worn or damaged parts before operating the machine.
  - d. Keep all fluids at their proper levels.
  - e. Keep shields in place and all hardware securely fastened.
  - f. Keep tires properly inflated.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.
  4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
  5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to local, state or federal regulations.

## 4.2 ENGINE

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**IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this tractor. Read the engine manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order replacement engine manuals contact the engine manufacturer.**

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

**Note:** *The tractor is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.*

During the break-in period, Jacobsen recommends the following:

### **Diesel Engine:**

1. During the first 50 hours of operation, a new engine should be allowed to reach an operating temperature of at least 140°F (60°C) prior to operation at full load.
2. Check the engine oil level twice daily during the first 50 hours of operation. Higher than normal oil consumption is not uncommon during the initial break-in period.
3. Change engine oil and oil filter element after first 50 hours of operation.
4. Check and adjust fan and alternator belts.

5. Refer to Section 6.3 and Engine Manual for specific maintenance intervals.

If the injection pump, injectors or the fuel system require service, contact an authorized Jacobsen Dealer.

### **Gasoline Engine:**

1. Drive modestly for the first 25 hours at reduced engine speed.
2. Avoid full throttle starts and rapid acceleration.
3. Allow the engine to reach operating temperature before operating at full load.
4. Change the oil and filter after the first 8 hours of operation.
5. Refer to Section 6.3 and Engine Manual for specific maintenance intervals.



## 4.3 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove oil filler cap and add oil as required.

### Diesel Engine:

Perform initial oil change after first 50 hours of operation and every 75 hours thereafter. See Engine Manual.

Use only engine oils with API classification CD/CE.

Above 77°F (25°C)	SAE 30W or SAE10W30/10W40
32 to 77°F (0 to 25°C)	SAE 20W or SAE 10W30/10W40
Below 32° (0°C)	SAE10W or SAE 10W30/10W40

### Gas Engine:

Perform initial oil change after the first 8 hours of operation. Change oil every 50 hours thereafter.

**See the engine manufacturer's Owners's Manual for detailed service information.**

After adding or changing oil, start and run engine at idle with all drives disengaged for 30 seconds. Shut engine off. Wait 30 seconds and check oil level. Add oil to bring up to FULL mark on dipstick.

Use only engine oils with API classification SF, SG,SH.

Above 40° F (5° C)	SAE 30W
0 to 40° F (-18 to 5° C)	SAE 5W30 or SAE 10W30

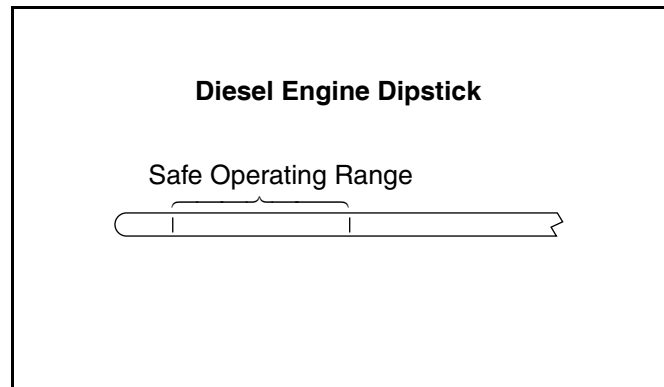


Figure 4A

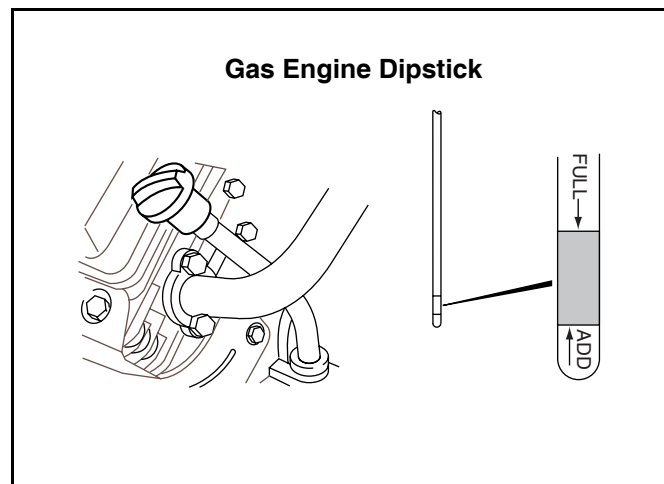


Figure 4B

## 4.4 GAS ENGINE AIR FILTER

1. Remove and service the foam pre-cleaner every 25 hours. Replace if dirty or damaged.

To service pre-cleaner, wash in a liquid detergent and water. Squeeze dry in a clean cloth. Saturate in clean engine oil and squeeze out excess oil in a clean, absorbent cloth.

2. Replace the air cleaner cartridge every 100 hours, more often when operating in dusty conditions.

**Note:** Do not use petroleum solvents such as kerosene to clean cartridge. Do not use pressurized air to clean cartridge.

**See the engine manufacturer's Owners's Manual for detailed service information.**

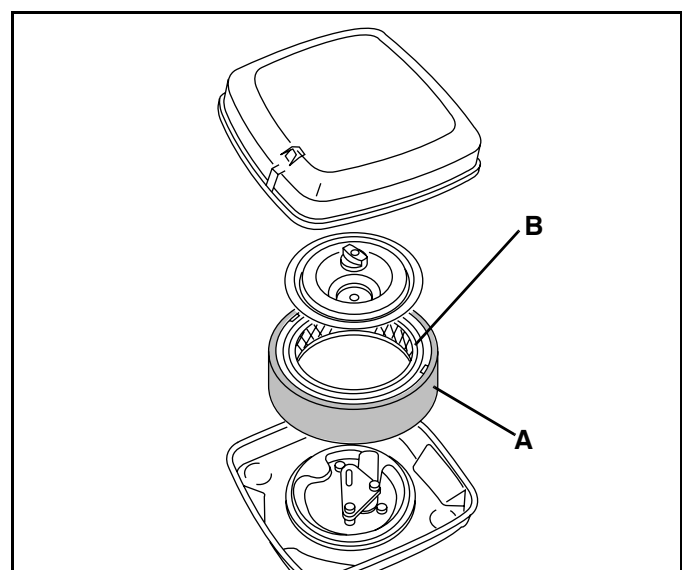


Figure 4C

## 4 MAINTENANCE

### 4.5 DIESEL AIR FILTER

Check the service indicator daily. If red band appears in the window (C) replace the element.

**Do not remove the element for inspection or cleaning.** Unnecessary removal of the filter increases the risk of injecting dust and other impurities into the engine.

When service is required, first clean the outside of the filter housing; then remove the old element as gently as possible and discard.

1. Carefully clean the inside of the filter housing without allowing dust into the air intake.
2. Inspect the new element. Do not use a damaged element and never use an incorrect element.
3. Assemble the new element and make sure it seats properly. Reset the indicator by depressing button (D).

4. Reassemble cap making sure it seals completely around the filter housing. Dust evacuator must be facing down.
5. Check all hoses and air ducts. Tighten hose clamps.

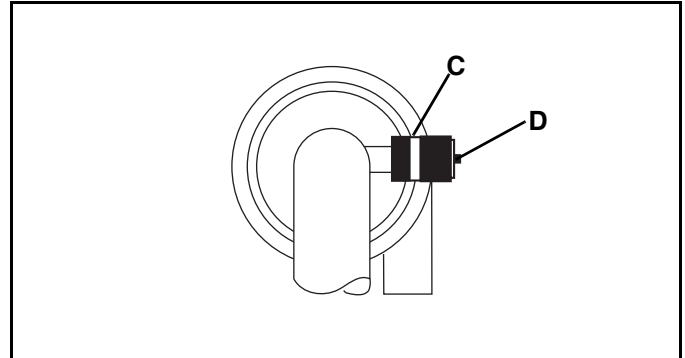


Figure 4D

### 4.6 FUEL

**Handle fuel with care - it is highly flammable.** Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.

#### WARNING

Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.

Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.

Do not spill fuel and clean spilled fuel immediately.

Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.

Be sure to reinstall and tighten fuel cap securely.

- Fill the fuel tank to within 1 in. (25 mm) of the bottom of the filler neck.

- Store fuel according to local, state or federal ordinances and recommendations from your fuel supplier.
- Never overfill or allow the tank to become empty.
- Check fuel lines and clamps every 50 hours. Replace fuel lines and clamps at the first sign of damage.

#### Diesel Engine:

- Use clean, fresh, #2 Diesel fuel. Minimum Cetane rating 45. Refer to Engine Manual for additional information.

#### Gas Engine:

- Use clean, fresh, regular grade, unleaded gasoline minimum 85 Octane.
- Do not use hi-test gasoline or an oil-gasoline mixture. When using blended fuel, do not use a blend with more than 10% ethanol. Under no circumstances should you use a blend with methanol.

### 4.7 FUEL SYSTEM

Refer to Section 6.3 for specific maintenance intervals.

Before replacing any filter, thoroughly clean the filter housing and the area around the filter. Dirt must not be allowed to enter into fuel system.

For diesel engines, bleed the fuel system if the fuel filter and lines have been removed, or the fuel tank has become empty. See Engine Manual.

## 4.8 BATTERY

Make absolutely certain the ignition switch is “Off” and the key has been removed before servicing the battery.

### CAUTION

Always use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. You must read and obey all battery manufacturer’s instructions.

Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep vent caps and terminal covers in place

Check the electrolyte level every 100 hours. Keep the cable ends, battery and battery posts clean.

Verify battery polarity before connecting or disconnecting the battery cables.

1. When installing the battery, always assemble the RED, positive (+) battery cable first and the ground, BLACK, negative (-) cable last.
2. When removing the battery, always remove the ground, BLACK, negative (-) cable first and the RED, positive (+) cable last.
3. Make sure battery is properly installed and secured to the battery tray.

### WARNING

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling.**

## 4.9 JUMP STARTING

Before attempting to “jump start” the tractor, check the condition of the discharged battery. Section 4.8

### WARNING

Batteries generate explosive hydrogen gas. To reduce the chance of an explosion, avoid creating sparks near battery. Always connect the negative jumper cable to the frame of the tractor with the discharged battery, away from the battery.

#### When connecting jumper cables:

1. Stop the engine on the vehicle with a good battery.
2. Connect RED jumper cable to the positive (+) terminal on the good battery and to the positive (+) terminal on the “discharged” battery.
3. Connect the BLACK jumper cable from the negative (-) terminal on the good battery to the frame of the tractor with the discharged battery.

After cables have been connected, start the engine on the vehicle with the good battery then start the tractor.

## 4.10 CHARGING BATTERY

### WARNING

Charge battery in a well ventilated area. Batteries generate explosive gases. To prevent an explosion, keep any device that may create sparks or flames away from the battery.

To prevent injury, stand away from battery when the charger is turned on. A damaged battery could explode.

3. Make sure the charger is “Off”. Then connect the charger to the battery terminals as specified in the charger’s manual.
4. Always turn the charger “Off” before disconnecting charger from the battery terminals.

1. Refer to Section 4.8. Read the Battery and Charger’s manual for specific instructions.
2. Whenever possible, remove the battery from the tractor before charging. If battery is not sealed, check that the electrolyte covers the plates in all the cells.

## 4 MAINTENANCE

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### 4.11 HYDRAULIC HOSES

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#### WARNING

To prevent serious injury from hot, high pressure oil, never use your hands to check for oil leaks, use paper or cardboard.

Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin. If fluid is injected into the skin it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

1. Always lower implements to ground, disengage all drives, engage parking brake, stop engine and remove key before inspecting or disconnecting hydraulic lines or hoses.
2. Check visible hoses and tubes daily. Look for wet hoses or oil spots. Replace worn or damaged hoses and tubes before operating the machine.
3. The replacement tube or hoses must be routed in the same path as the existing hose, do not move clamps, brackets and ties to a new location.
4. Thoroughly inspect all tubes, hoses and connections every 250 hours.

**IMPORTANT:** The hydraulic system can be permanently damaged if the oil becomes contaminated. Before disconnecting any hydraulic component, clean the area around the fittings and the hose ends to keep impurities out of the system.

- a. Before disconnecting any hydraulic component, tag or mark the location of each hose then clean the area around the fittings.
- b. As you disconnect the component, be prepared to assemble plugs or caps to the hose ends and open ports. This will keep impurities out of the hydraulic system and also prevent oil spills.
- c. Make sure "O" rings are clean and hose fittings are properly seated before tightening.
- d. Keep the hose from twisting. Twisted hoses can cause couplers to loosen as the hose flexes during operation resulting in oil leaks.
- e. Kinked or twisted hoses can restrict the oil flow causing the system to malfunction and the oil to overheat and also lead to hose failure.

### 4.12 HYDRAULIC OIL

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Refer to Section 6.3 for specific maintenance intervals.

The hydraulic reservoir is filled with Jacobsen GreensCare 46 Biodegradable fluid.

Drain and replace the hydraulic oil after a major component failure, or if you notice the presence of water or foam in the oil, or a rancid odor (indicating excessive heat).

Always replace the hydraulic filter when changing oil.

#### To change hydraulic oil:

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
  - a. Oil temperature should be at 60° to 90°F (16° - 32°C). Do not check oil level when oil is hot.
  - b. The main oil tank should always be at the FULL mark on the dipstick.
2. Drain and replace the hydraulic fluid every 250 hours, yearly, or after a major component failure, or if you notice the presence of water, foam, or a rancid odor.

3. Remove drain plug from bottom of main tank and loosen or remove breather cap. Check and clean the breather cap, replace as necessary.
4. After oil has drained install drain plug and fill with Jacobsen GreensCare 46 fluid.
5. Purge air from system.
  - a. Operate all tractor functions for about 5 minutes to purge air out of the system and stabilize the oil level.
  - b. Once the level has stabilized and the air is purged, fill the tank to FULL mark on dipstick.

## 4.13 HYDRAULIC OIL FILTERS

The hydraulic system is protected by one 20 micron filter.

### To replace hydraulic oil filter:

1. Remove the old filter.
2. Fill new filter with oil then install new filter. Hand tighten only.

3. Operate engine at idle speed with hydraulic system in neutral for five minutes. The oil level alarm may sound during this time (Optional Green Sentry)
4. Check hydraulic oil level in reservoir and fill to full mark on dipstick.

## 4.14 ELECTRICAL SYSTEM

### CAUTION

Always turn the ignition switch off and remove the negative battery cable (Black) before inspecting or working on the electrical system.

General precautions that can be taken to reduce electrical problems are listed below.

1. Make certain all terminals and connections are clean and properly secured.
2. Check the Interlock system, and circuit breakers regularly.

If the Interlock system does not function properly and the problem cannot be corrected, contact an authorized Jacobsen Dealer.

3. Keep the wire harness and all individual wires away from moving parts to prevent damage.
4. Make sure the seat switch harness is connected to the main wire harness.
5. Check the battery and battery charging circuit.
6. Do not wash or pressure spray around electrical connections and components.

## 4.15 MUFFLER AND EXHAUST

### WARNING

Exhaust fumes contain carbon monoxide that is toxic and can be fatal when inhaled.

**NEVER** operate an engine without proper ventilation.

To protect from carbon monoxide poisoning, inspect the complete exhaust system regularly and always replace a defective muffler.

If you notice a change in the color or sound of the exhaust, stop the engine immediately. Identify the problem and have the system repaired.

Torque all exhaust manifold hardware evenly. Tighten or replace exhaust clamps.

## 4.16 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
9. Check the pressure with an accurate, low pressure tire gauge.
10. Keep tires inflated to:
  - Front - 10-12 psi - (69-83 kPa)
  - Rear - 8-10 psi (55-69 kPa)

### CAUTION

Unless you have the proper training, tools and experience, **DO NOT** attempt to mount a tire on a rim. Improper mounting can produce an explosion which may result in serious injury.

## 4 MAINTENANCE

### 4.17 WHEEL MOUNTING PROCEDURE

#### WARNING

Make sure the tractor is parked on a solid and level surface. Never work on a tractor that is supported only by the jack. Always use jack stands.

If only the front or rear of the tractor is raised, place chocks in front of and behind the wheels that are not raised.

1. Remove dirt, grease and oil from stud thread. Do not lubricate threads.
2. Position wheel on hub and inspect to insure full contact between mounting surface of wheel and hub or brake drum.
3. Finger tighten all hardware then torque hardware in criss-cross order; always tighten nuts in the top position.
4. Check and retorque daily until torque is maintained, 85-95 ft.lbs. (115-128 Nm)

### 4.18 CARE AND CLEANING

Wash the tractor and implements after each use. Keep the equipment clean.

**Note:** Do not wash any portion of the equipment while it is hot. Do not use high pressure spray or steam. Use cold water and automotive cleaners.

1. Use compressed air to clean engine and radiator fins. A special blow gun is available through Jacobsen Dealer.
2. Use only fresh water for cleaning your equipment.

**Note:** Use of salt water or effluent water has been known to encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.

3. Do not spray water directly at the instrument panel, ignition switch, or any other electrical components, or at bearing housings and seals.

4. Clean all plastic or rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.

Repair damaged metal surfaces and use Jacobsen touch-up paint. Wax the equipment for maximum paint protection.

#### CAUTION

Clean grass and debris from cutting units, drives, muffler and engine to prevent fires.

#### WARNING

**NEVER** use your hands to clean cutting units. Use a brush to remove grass clippings from blades. Blades are extremely sharp and can cause serious injuries.

### 4.19 RADIATOR (DIESEL ENGINES)

#### WARNING

To prevent serious bodily injury from hot coolant or steam blow-out, never attempt to remove the radiator cap while the engine is running. Stop the engine and wait until it is cool. Even then, use extreme care when removing the cap.

#### CAUTION

Do not pour cold water into a hot radiator. Do not operate engine without a proper coolant mixture. Install cap and tighten securely.

Check coolant level daily. Radiator should be full and recovery bottle should be up to the **cold** mark.

Drain and refill annually. Remove the radiator cap, open the engine block drain and the radiator drain. Empty and clean the recovery bottle.

Mix clean water with ethylene glycol based anti-freeze for the coldest ambient temperature. Read and follow the instructions on the anti-freeze container and engine manual.

Keep radiator air passages clean. Use compressed air (30 psi maximum) to clean the fins.

Check and tighten the fan belt. Replace clamps and hoses every two years.

If you have to add coolant more than once a month, or add more than one quart at a time, have a authorized Jacobsen Dealer check the cooling system.

## 4.20 BACKLAPPING



### WARNING

To prevent injury, keep hands, feet and clothing away from rotating reels.

When the backlap switch is in the REVERSE position, the reels will turn whether mowers are up or down and the operator is on or off the seat.

Carbon Monoxide in exhaust fumes can be fatal when inhaled, never operate an engine without proper ventilation.

Check the reel and bedknife to determine if backlapping or grinding will restore the cutting edge.

If wear or damage is beyond the point where the cutting edges can be corrected by the lapping process, they must be reground.

#### To Backlap:

1. Adjust bedknife to reel as described in Sections 3.2 and 3.3.
2. Obtain the mechanics (Backlap) key.
  - a. Make absolutely certain your feet and clothing are far away from the reel.
  - b. Make sure the parking brake is "ENGAGED", reel levers are "OFF", backlap switch is "OFF" and the traction lever is in neutral.

3. Turn all three backlapping knobs counterclockwise to open
4. Turn backlap key to backlap position and start the engine. Adjust throttle to minimum RPM.
  - a. Engage lever for reel to be backlapped. Keep the other levers in the OFF position.
  - b. Slowly close backlap knob until reel turns at desired speed
  - c. Apply lapping compound with a long handle brush to high spots first then along entire length of the reel.
  - d. Continue lapping and at the same time make a slight adjustment on the reel until there is a uniform clearance along the full length of the cutting edges.
  - e. When the blades have been evenly honed, carefully and thoroughly clean off the remaining lapping compound from the reels and bedknife before running the reel in forward direction.
5. Repeat the entire process on the other reels.
6. Disengage reel levers, stop the engine, remove and store the mechanics key.



### WARNING

When the mechanics switch is in the BACKLAP position, the reels will turn whether mowers are up or down and the operator is on or off the seat.

## 4 MAINTENANCE

### 4.21 STORAGE

#### General

1. Wash the tractor thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the tractor, tighten all hardware, replace worn or damaged components.
3. Drain and refill radiator.
4. Clean the tires thoroughly and store the tractor so the load is off the tires. If tractor is not on jack stands, check tires at regular intervals and reinflate as necessary.
5. Keep the machine and all its accessories clean, dry and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

#### Battery

1. Remove, clean and store battery in upright position in a cool, dry place.
2. Check and recharge battery every 60 to 90 days while in storage.
3. Store batteries in a cool, dry place. To reduce the self discharge rate, room temperature should not be above 80°F (27°C) or fall below 20°F (-7°C) to prevent electrolyte from freezing.

#### Engine (General)

1. While the engine is warm, remove the drain plug, drain the oil from the crankcase and change oil filter. Install drain plug and refill with fresh oil. Let engine cool before storing.
2. Clean exterior of engine. Paint exposed metal, or apply a light coat of rust preventative oil.

**Diesel Engine** - Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.

**Gas Engine** - For engine protection Jacobsen recommends the use of a fuel additive such as STABIL®. Mix additive following instructions on container. Run engine for a short time to circulate additive through carburetor.

Remove spark plugs and pour 1 oz. (30 ml) of engine oil into each cylinder. Replace spark plugs and crank slowly (do not start) to distribute oil in cylinder.

If storing indoors, drain fuel from tank.

Close fuel shut off valve.

**Note:** Do not use fuel with ethanol during storage.

#### Cutting Units

1. Wash the cutting units thoroughly, then repair and paint any damaged or exposed metal.
2. Lubricate all fittings and friction points.
3. Backlap the reels then back the reel away from the bedknife. Apply a light coat of rust preventative oil to the sharpened edges of the reel and bedknife.



To prevent personal injury and damage to the cutting edges, handle the reel with extreme care

#### After Storage

1. Check and reinstall battery
2. Check or service fuel filter and air cleaner.
3. Check the radiator coolant level.
4. Check oil level in the engine crankcase and hydraulic system.
5. Fill the fuel tank with fresh fuel. Open fuel shut off valve and bleed the fuel system.
6. Make certain that the tires are properly inflated.
7. Remove all oil from the reels and bedknife. Adjust bedknife and cutting height.
8. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.



Never operate the engine without proper ventilation; exhaust fumes can be fatal when inhaled.



## 5.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information regarding the hydraulic and electrical systems contact your area Jacobsen Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	<ol style="list-style-type: none"> <li>1. Parking brake disengaged, traction lever not in neutral or reel lever(s) on.</li> <li>2. Battery low on charge or defective.</li> <li>3. Fuel tank empty or dirty. Fuel shut off valve closed</li> <li>4. Fuse blown.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check Interlock system and start-up procedure.</li> <li>2. Inspect condition of battery and battery connections.</li> <li>3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. Open fuel shut off valve</li> <li>4. Replace fuse.</li> </ol>
Engine hard to start or runs poorly.	<ol style="list-style-type: none"> <li>1. Fuel level low, fuel or fuel filter dirty.</li> <li>2. Air cleaner dirty.</li> <li>3. Injectors, fuel pump</li> <li>4. Engine problem.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines.</li> <li>2. Inspect and replace air filter.</li> <li>3. Consult engine manual.</li> <li>4. Consult engine manual</li> </ol>
Engine stops.	<ol style="list-style-type: none"> <li>1. Fuel tank empty.</li> <li>2. Interlocks not set before leaving operator's seat.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill with fresh fuel and bleed fuel lines.</li> <li>2. Engage parking brake, set reel levers to OFF and set traction lever to neutral before leaving seat.</li> </ol>
Engine overheating	<ol style="list-style-type: none"> <li>1. Coolant level low.(Diesel)</li> <li>2. Air intake restricted.</li> <li>3. Water pump belt broken or loose.(Diesel)</li> <li>4. Engine overload</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect and add coolant.</li> <li>2. Clean cooling air intake.</li> <li>3. Tighten or replace belt.</li> <li>4. Reduce forward speed</li> </ol>
Battery not holding charge.	<ol style="list-style-type: none"> <li>1. Loose or corroded battery terminals.</li> <li>2. Low electrolyte.</li> <li>3. Alternator belt loose or broken.</li> <li>4. Charging system defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect and clean terminals</li> <li>2. Refill to correct level.</li> <li>3. Tighten or replace belt</li> <li>4. See engine manual</li> </ol>
Reels cut unevenly	<ol style="list-style-type: none"> <li>1. Bedknife-to-reel not adjusted correctly.</li> <li>2. Engine speed too low.</li> <li>3. Reel Control lever set in reverse</li> <li>5. Low hydraulic oil</li> </ol>	<p>Inspect bedknife-to-reel adjustment.</p> <p>Check engine speed. Run engine at full throttle.</p> <p>Set reel lever to forward rotation</p> <p>Check reservoir level and fill if needed.</p>
Tractor does not react to traction pedal	<ol style="list-style-type: none"> <li>1. Parking brake engaged</li> <li>2. Traction lever in neutral</li> <li>3. Low hydraulic oil</li> </ol>	<p>Disengage parking brake.</p> <p>Place lever in desired speed or direction</p> <p>Check reservoir level and fill if needed</p>
Gauges/Indicator not operating	<ol style="list-style-type: none"> <li>1. Fuse blown, Bulb burnt out</li> <li>2. Loose wiring</li> </ol>	<p>Replace fuse, check bulb</p> <p>Check electrical connections.</p>

# 6 MAINTENANCE & LUBRICATION CHARTS

## 6.1 GENERAL

### WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine and remove key from ignition switch to prevent injuries

1. Always clean the grease fitting before and after lubricating.

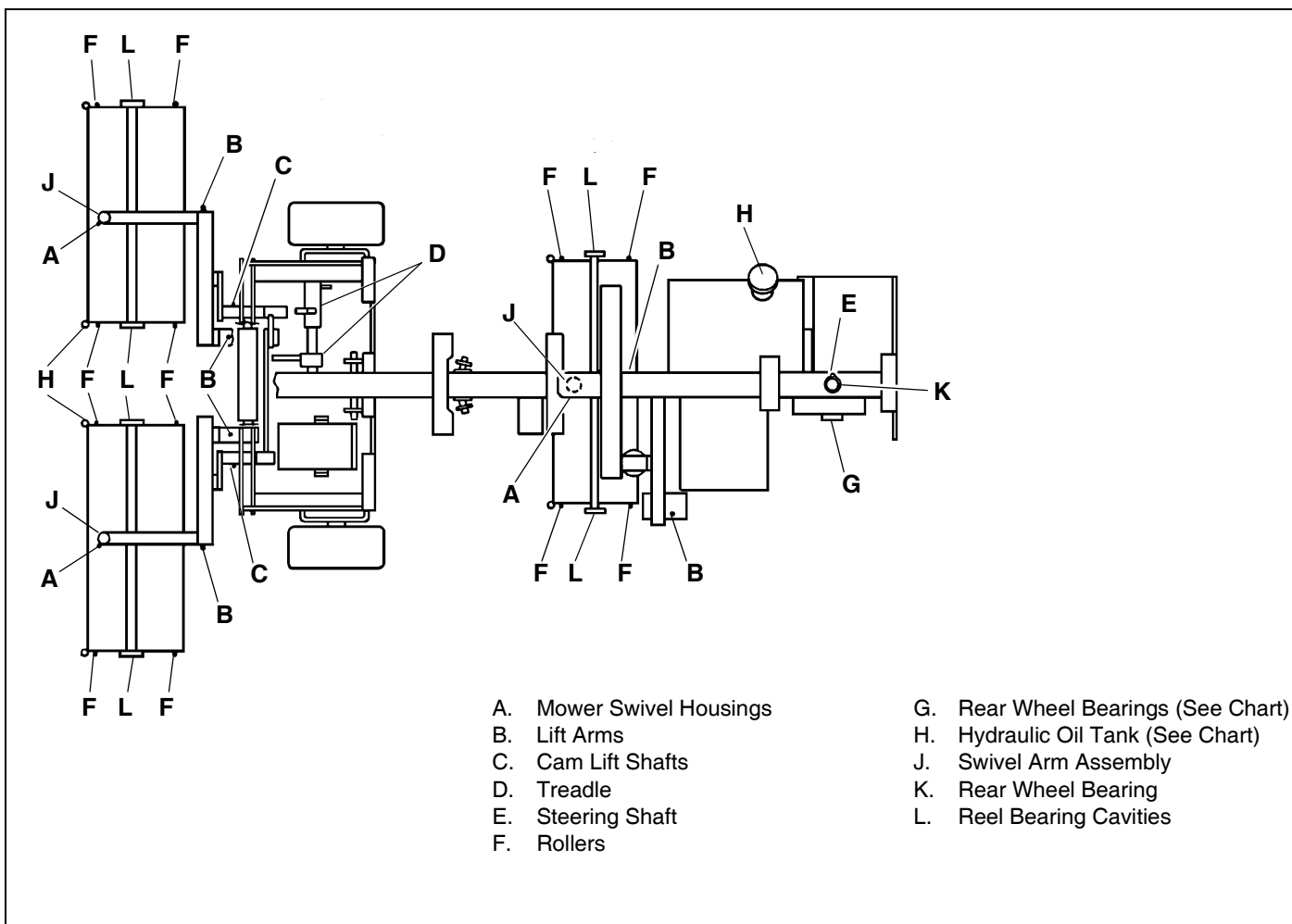
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.

3. Periodically apply a small amount of lithium based grease to the seat runners.

4. For smooth operation of all levers, pivot points and other friction points that are not shown on the lubrication chart apply several drops of SAE 30 oil every 40 hours or as required.

5. Grease roller fittings (F) every 100 hours and coat cam surfaces and pins of swivel housing (J) every 50 hours.

## 6.2 LUBRICATION CHART



# MAINTENANCE & LUBRICATION CHARTS 6

## 6.3 MAINTENANCE CHARTS

**Recommended Service and Lubrication Intervals**

	Every 8-10 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Every 400 Hours	Every 500 Hours	Every 1000 Hours	Yearly	See Section	Lubricant Type
Air Filter (Diesel)	I		AR					R	4.5	
Air Filter (Gas)	I	C	R					R	4.4	
Battery Charge			I						4.8	
Belts	I-A*		I-A			R			3.17	
Brake		I-A*		A						
Cooling System (Diesel)	I-C-A							R	4.19	IV
Electrical System		I*		I					4.14	
Engine Oil (Diesel)	I	R*	R****						4.3	II
Engine Oil (Gas)	I-R*	R							4.3	II
Engine Oil Filter		R*	R							
Fuel System		I							4.7	
Fuel Filter						R			4.7	
Grease Fittings - All	L	L	L			L			6.2	I
Hydraulic Hoses and Tubes	I***			I					4.11	
Hydraulic Oil	I-A			R**				R**	4.12	III
Hydraulic Oil Filter	I	R*		R					4.13	
Muffler and Exhaust	I			I					4.15	
Radiator Screens	I-C/AR								4.19	
Tires		I-A							4.16	

**A - Add or Adjust    C - Clean    I - Inspect    L- Lubricate    R - Replace    AR - As Required**

\* Indicates initial service for new machines.

\*\* Every 250 Hours or yearly, whichever comes first.

\*\*\* Inspect visible hoses and tubes for leaks or oil marks.

\*\*\*\* Replace every 75 hours

I - Manual grease gun with NLGI Grade 2 (Service Class LB).

II - Engine Oil - See Section 4.3

III - Use Jacobsen GreensCare 46 Biodegradable fluid:  
Capacity: 5 gallons (19 Liters). Order Part No. 5003104  
containing 5 gal. (19 liter) pail or Part No. 5003105  
containing 55 gal. (208 liter) drum.

IV - Capacity: 3qt. (2.8 l) 50/50 water ethylene glycol mix

## **7 NOTES**

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## 1.1 Decals



Gas



Diesel

3



2



4



To prevent injury:

- Always connect red battery cable to the positive (+) post FIRST and the black cable to negative (-) post LAST.
- When removing the battery always remove negative (-) cable FIRST and positive (+) cable LAST.
- Avoid contact with battery acid.
- Keep sparks and flames away from the battery.
- Do not short circuit battery posts. Do not touch frame or negative terminal when working on positive terminal.

5

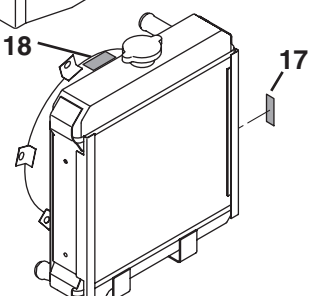
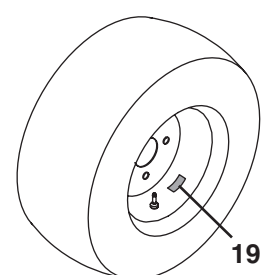
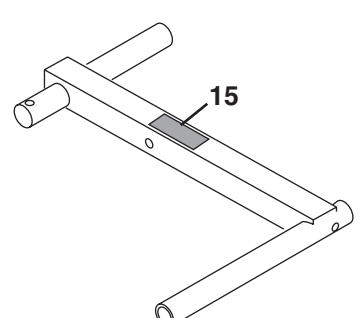
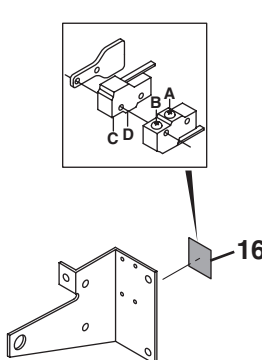
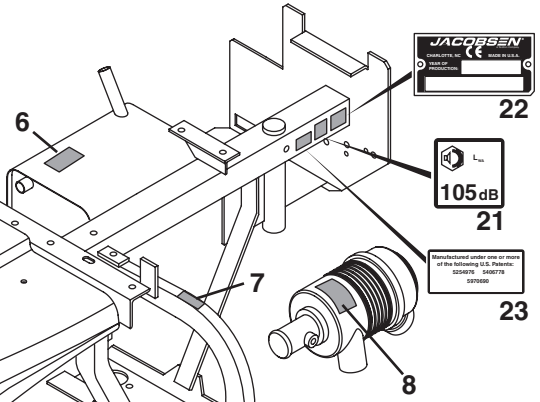
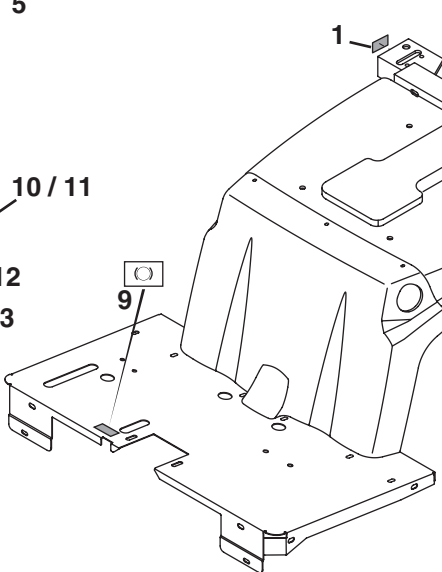
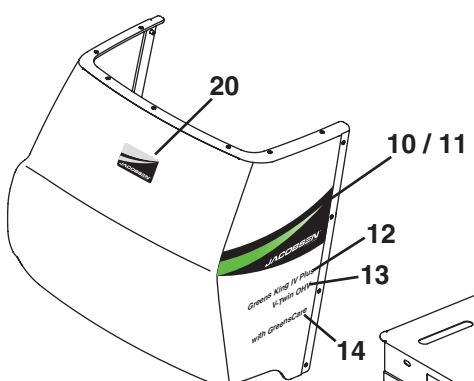
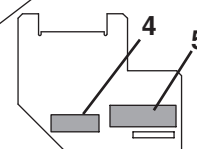
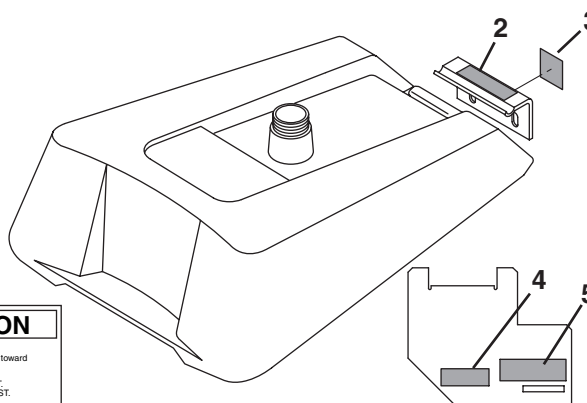


To install the battery

1. Install the battery with terminals toward frame center.
  2. Secure battery to support.
  3. Connect positive (+) (red) FIRST.
  4. Connect negative (-) (black) LAST.
- To use jumper cables:
1. Stop the engine on vehicle with good battery.
  2. Connect RED cable to positive (+) terminal on good battery and positive (+) terminal on discharged battery.
  3. Connect the BLACK cable from negative (-) terminal on good battery to frame of vehicle with discharged battery.
  4. Start the engine.

To use jumper cables:

1. Stop the engine on vehicle with good battery.
2. Connect RED cable to positive (+) terminal on good battery and positive (+) terminal on discharged battery.
3. Connect the BLACK cable from negative (-) terminal on good battery to frame of vehicle with discharged battery.
4. Start the engine.



**⚠ WARNING**  
To prevent burns, do not touch muffler or muffler shield. Temperatures may exceed 150°F (66°C)

7

**IMPORTANT**  
This machine uses GreensCare 46, a biodegradable hydraulic fluid. (Order 5003104 for 5 gal. pail).  
Use of ATF Dextron II or III is an approved alternate fluid. Use will compromise all Biodegradable properties of GreensCare 46 hydraulic Fluid.

6

**IMPORTANT**  
DO NOT USE STARTING ASSIST FLUIDS  
USE OF STARTING ASSIST FLUIDS IN THE AIR INTAKE SYSTEM MAY BE POTENTIALLY EXPLOSIVE OR CAUSE A "RUNAWAY" ENGINE CONDITION. THIS COULD RESULT IN SERIOUS ENGINE DAMAGE.

8

**⚠ WARNING**  
Radiator is under pressure. Remove cap slowly to avoid personal injury

18

8-12 p.s.i.  
55-83 kPa

19

THIS RADIATOR CONTAINS  
**ANTI-FREEZE**  
PROTECTED TO -26 F (-32 C)  
Mix equal parts of clean water and a premium quality ethylene glycol based anti-freeze to maintain the boil over, rust and corrosion protection.  
Drain and discard coolant yearly. Read manual for additional instructions.

17

**⚠ CAUTION**  
Inspect hoses and fabric covers daily. If worn or damaged, replace with original quality parts.

1

**⚠ CAUTION**  
Torsion spring under extreme tension. Clamp may turn suddenly. To avoid injury, unwind spring by tapping on clamp while loosening nut

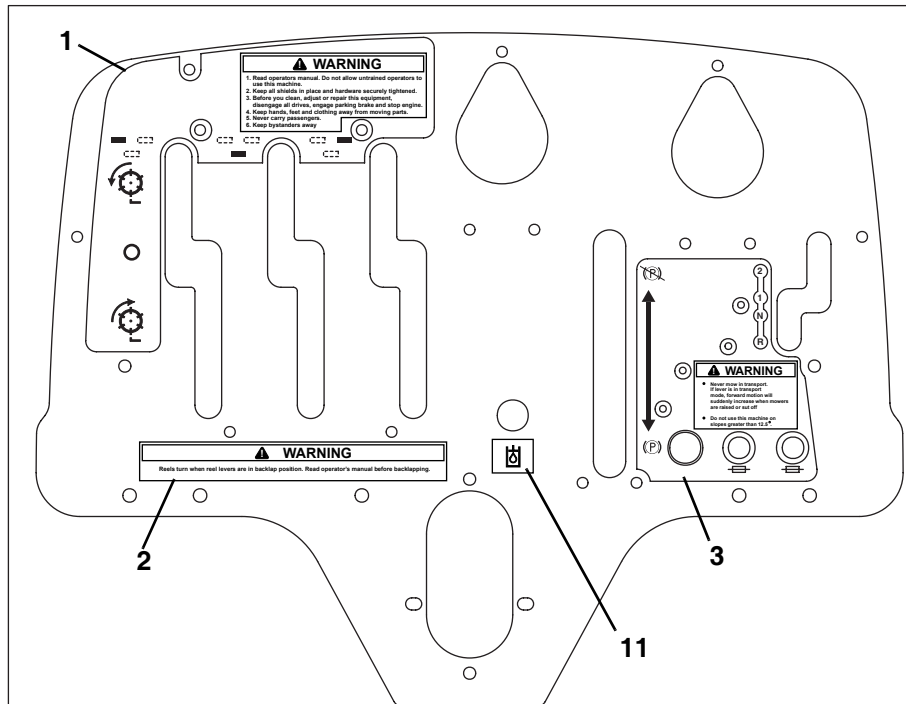
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811880	1	Decal, Caution	
2	361169	1	Decal, Fuel Fill Caution	
3	3002308	1	Decal, Gasoline	Gas Units Only
3	3002309	1	Decal, Diesel Fuel	Diesel Units Only
4	361175	1	Decal, Towing Warning	
5	336640	1	Decal, Battery Danger/Caution	
6	2811912	1	Decal, Hydraulic Fluid	
7	339237	1	Decal, Muffler Warning	Diesel Units Only
8	3000435	1	Decal, Start Assist Fluids	Diesel Units Only
9	3002248	1	Decal, Brake	
10	4124831	1	Decal, Left Side Stripe	
11	4124832	1	Decal, Right Side Stripe	
12	4124703	2	Decal, Greens King IV	GK IV Units Only
12	4124704	2	Decal, Greens King IV Plus	GK IV Plus Units Only
13	4124705	2	Decal, V-Twin OHV	Gas Units Only
13	4124706	2	Decal, Diesel	Diesel Units Only
14	4124721	1	Decal, with GreensCare	
15	340586	3	Decal, Torsion Spring	One on each Lift Arm
16	2812066	1	Decal, Switch Wiring Instructions	
17	363995	1	Decal, Anti-Freeze	Diesel Units Only
18	365956	1	Decal, Radiator Warning	Diesel Units Only
19	354085	3	Decal, Tire Inflation Pressure	One on each Tire
20	4124759	1	Decal, Jacobsen Emblem	
21	4117468	1	Decal, 105 dB Noise	
22	REF	1	Serial Plate	
23	4125773	1	Decal, Patent	

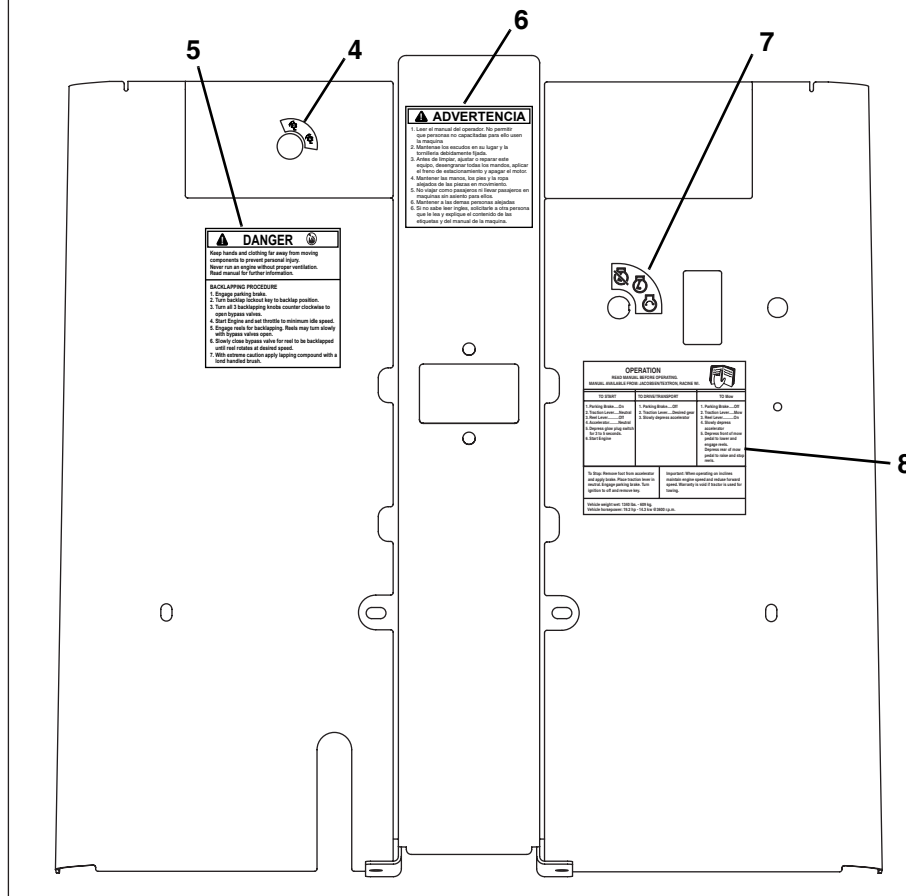
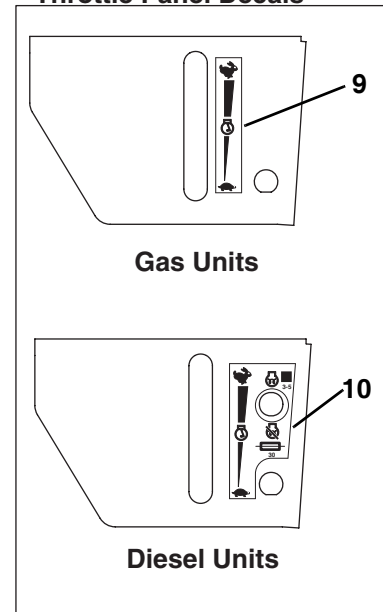
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## 2.1 Control Panel Decals

### Instrument Panel Decals



### Throttle Panel Decals



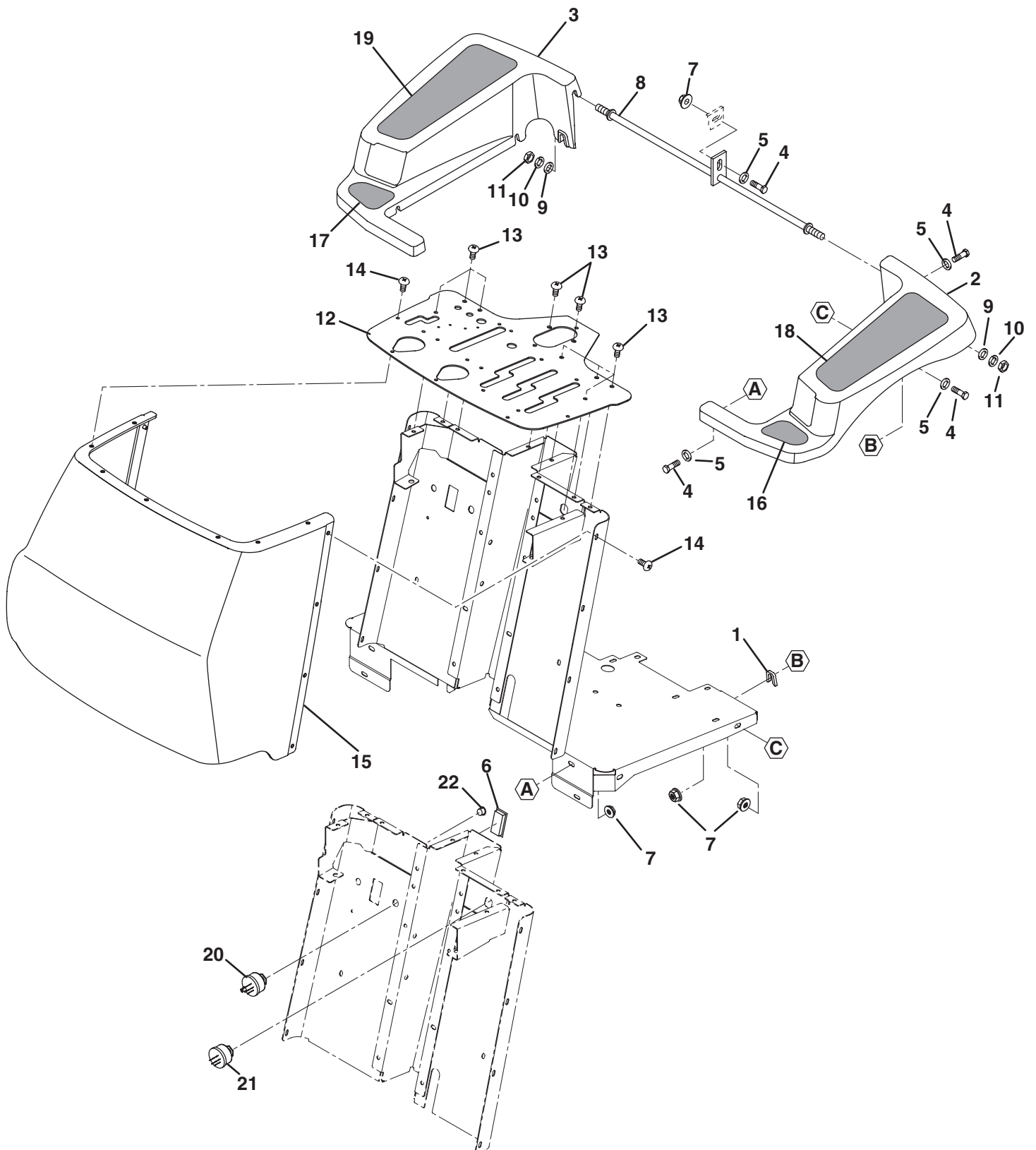


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810349	1	Decal, Left Side Warning	
2	337302	1	Decal, Backlapping Warning	
3	2810350	1	Decal, Right Side Warning	
4	3002053	1	Decal, Backlap Lockout Switch	
5	3002207	1	Decal, Backlapping Danger	
6	340830	1	Decal, Spanish Caution	
7	3002057	1	Decal, Ignition Switch	
8	3003276	1	Decal, Operation	Gas Units
8	3009964	1	Decal, Operation	Diesel Units
9	3002051	1	Decal, Throttle	Gas Units
10	3009744	1	Decal, Throttle and Glow Plug	Diesel Units
11	4141266	1	Decal, Oil	

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## 3.1 Fenders and Front Cowling

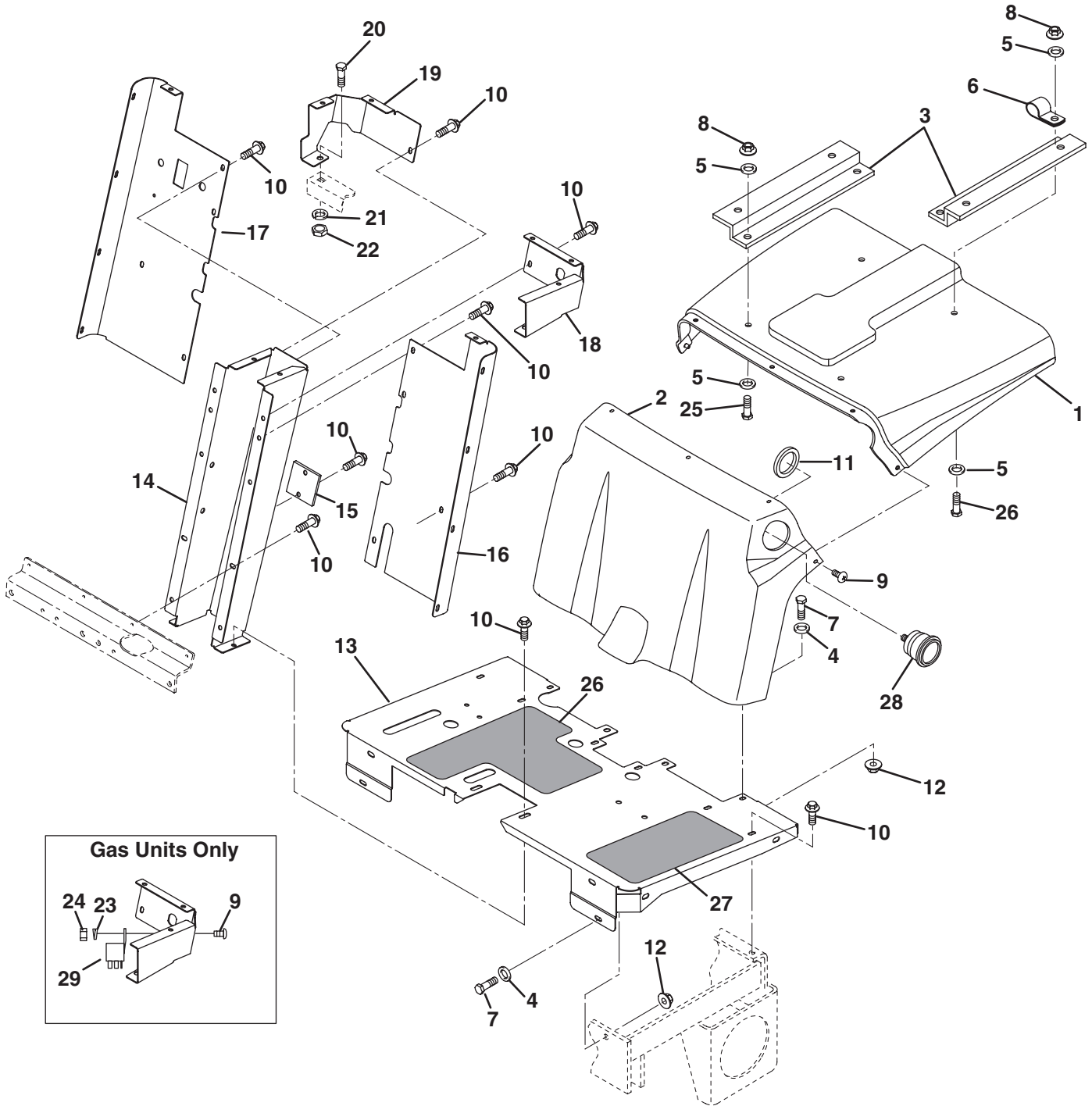


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811607	AR	Shim, Fender Mounting	
2	2810705	1	Fender, Left Side	
3	2810706	1	Fender, Right Side	
4	400188	9	Screw, 5/16-18 x 1" Hex Head	
5	452006	9	Flat Washer, 5/16	
6	3006509	1	Plug, Panel	
7	445781	9	Nut, 5/16-18 Whizlock	
8	2811524	1	Bar, Fender Support	
9	452008	2	Flat Washer, 3/8	
10	446142	2	Lockwasher, 3/8 Heavy	
11	443110	2	Nut, 3/8-16 Hex	
12	2811913	1	Instrument Panel	Includes Decals
13	404014	9	Screw, 1/4-20 x 1/2" Truss Head	
14	403912	13	Screw, #10-24 x 5/8" Truss Head	
15	2811411	1	Front Cowling	
	2811534	1	Pad Replacement Kit	
16	N/S	1	• Pad, Front Left Fender	
17	N/S	1	• Pad, Front Right Fender	
18	N/S	1	• Pad, Left Fender	
19	N/S	1	• Pad, Right Fender	
20	1000348	1	Ignition Switch	
	5000039	1	• Key, Ignition	
	358968	1	• Nut, 9/16-24 NEF-2	
	447222	1	• Lockwasher, 9/16 Internal Tooth	
21	1001010	1	Mechanic's (Backlap) Switch	
	5001428	1	• Key, Mechanic's	
22	364646	1	Plug, 1/2" Panel Hole	

> Change from previous revision

## 4.1 Floorboard and Steering Tower

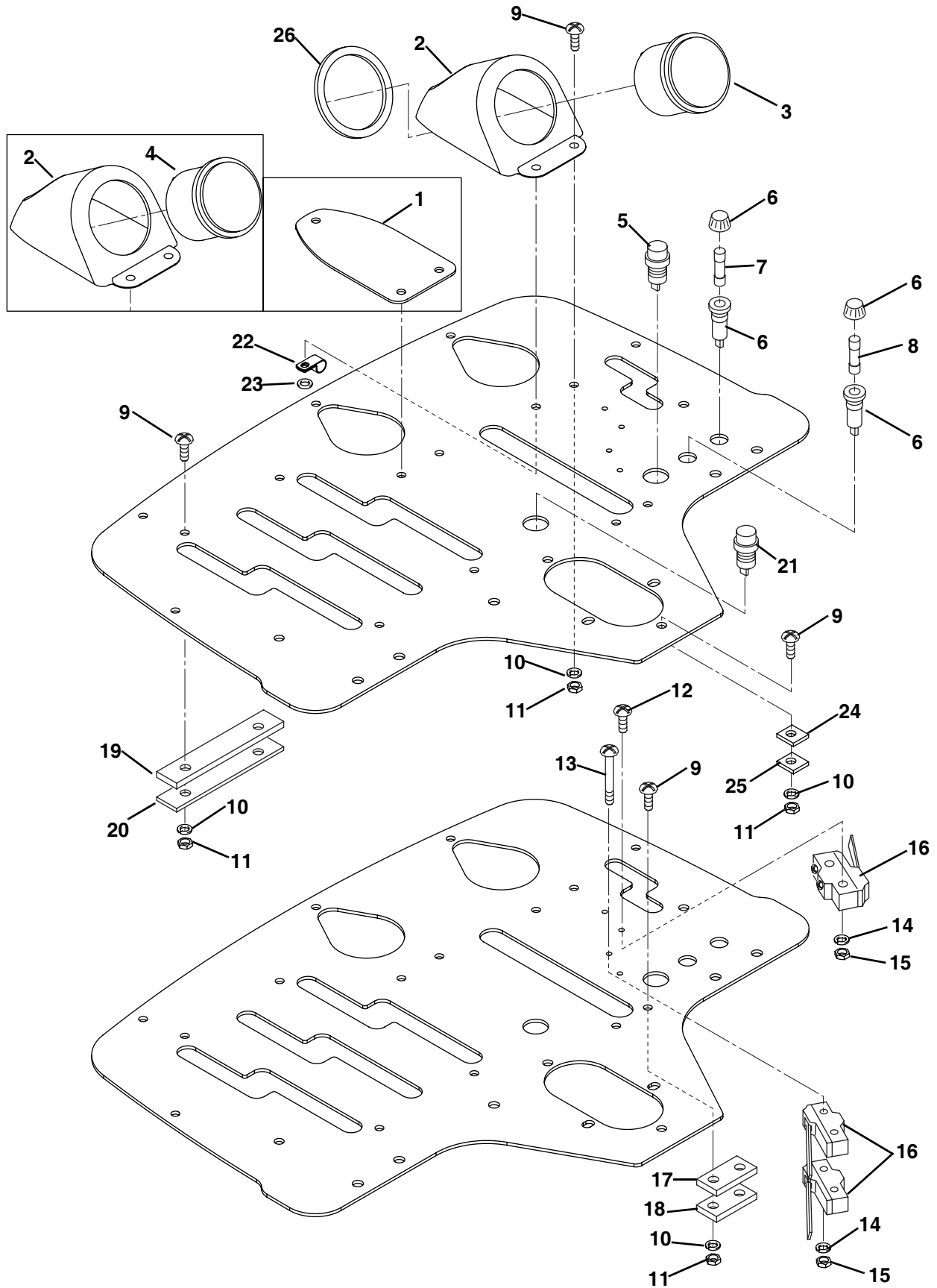


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2809868	1	Skirt, Top Seat	
2	2809869	1	Skirt, Front Seat	
3	338277	2	Bracket, Seat Mounting	
4	453023	6	Flat Washer, 1/4	
5	453009	7	Flat Washer, 5/16	
6	345666	1	Clamp, Wire Harness	
7	400104	6	Screw, 1/4-20 x 1/2" Hex Head	
8	445781	4	Nut, 5/16-18 Whizlock Flange	
9	403912	6	Screw, #10-24 x 5/8" Truss Head	Gas Units
9	403912	5	Screw, #10-24 x 5/8" Truss Head	Diesel Units
10	403753	20	Screw, 1/4-20 x 1/2" Serr. Washer	
11	2812082	1	Ring, Hour Meter	
12	445794	6	Nut, 1/4-20 Hex Flange	
13	2810572	1	Floorboard	
14	2811918	1	Cover, Steering Tower	Includes Decal
15	365205	1	Cover, Access	
16	2811914	1	Panel, Left Side	Includes Decal
17	2811543	1	Panel, Right Side	
18	2811425	1	Bracket, Left Instrument Panel	
19	2811426	1	Bracket, Right Instrument Panel	
20	400260	1	Screw, 3/8-16 x 7/8" Hex Head	
21	446142	2	Lockwasher, 3/8	
22	443110	2	Nut, 3/8-16 Hex	
23	446118	1	Lockwasher, #10 Heavy	Gas Units Only
24	444310	1	Nut, #10-24 Hex	Gas Units Only
25	400188	4	Screw, 5/16-18 x 1" Hex Head	
	2811534	1	Pad Replacement Kit	
26	N/S	1	• Pad, Right Floorboard	
27	N/S	1	• Pad, Left Floorboard	
28	162723	1	Hour Meter	
	N/S	1	• Mounting Bracket	
	447006	1	• Lockwasher, #10 External Tooth	
	444310	1	• Nut, #10-24 Hex	
29	3001307	1	Relay, Engine Shut Down	Gas Units Only

> Change from previous revision

## 5.1 Instrument Panel



# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811515	1	Plate, Cover	Gas Units Only
2	2811441	1	Hood, Gauge	Gas Units
2	2811441	2	Hood, Gauge	Diesel Units
3	162721	1	Volt Meter	
	N/S	1	• Mounting Bracket	
	447002	3	• Lockwasher, #6 External Tooth	
	444304	3	• Nut, #6-32 Hex	
	447206	2	• Lockwasher, #8 Internal Tooth	
	444306	2	• Nut, #8-32 Hex	
4	162720	1	Temperature Gauge	Diesel Units Only
	N/S	1	• Mounting Bracket	
	447002	3	• Lockwasher, #6 External Tooth	
	444304	3	• Nut, #6-32 Hex	
	447206	2	• Lockwasher, #8 Internal Tooth	
	444306	2	• Nut, #8-32 Hex	
5	366751	1	Light, Parking Brake	
6	361646	2	Fuse Holder	
7	361700	1	Fuse, 6 Amp	
8	364979	1	Fuse, 20 Amp	Gas Units
8	361701	1	Fuse, 30 Amp	Diesel Units
9	403912	11	Screw, #10-24 x 5/8" Truss Head	
10	446118	11	Lockwasher, #10 Heavy	
11	444310	11	Nut, #10-24 Hex	
12	402014	2	Screw, #6-32 x 1" Slotted Head	
13	402020	2	Screw, #6-32 x 1-3/4" Slotted Head	
14	447204	4	Lockwasher, #6 Internal Tooth	
15	444304	4	Nut, #6-32 Hex	
16	3002056	3	Micro Switch	
17	361113	1	Stop, Parking Brake Handle	
18	361112	1	Plate, Stop Reinforcement	
19	361116	2	Stop, Reel Selector Handle	
20	361115	2	Plate, Stop Reinforcement	
21	164194	1	Light, Engine Oil	
22	3003773	1	Clamp, Wire Harness	
23	452002	1	Flat Washer, #10	
24	2812073	1	Stop, Steering Valve	
25	2812074	1	Plate, Stop Reinforcement	
26	2810845	1	Ring, Gauge Backup	Gas Units
27	2810845	2	Ring, Gauge Backup	Diesel Units

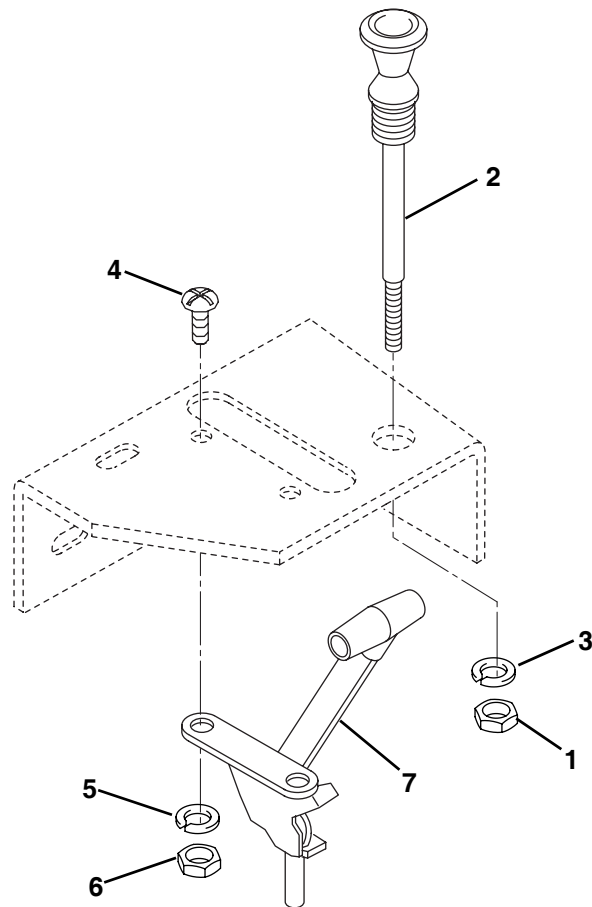
> Change from previous revision

# GREENS KING IV

Serial No. All

## 6.1 Throttle Plate

Gas Units



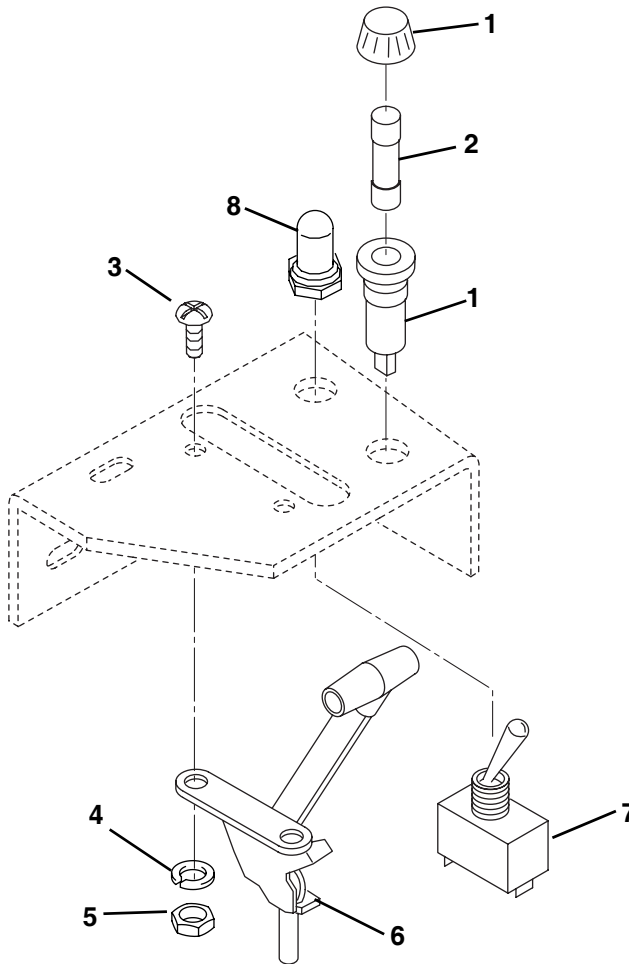
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	443112	1	Nut, 3/8-24 Hex	
2	1000514	1	Choke Control Cable	
3	446142	1	Lockwasher, 3/8 Heavy	
4	403912	2	Screw, #10-24 x 5/8" Truss Head	
5	446118	2	Lockwasher, #10 Heavy	
6	444310	2	Nut, #10-24 Hex	
7	2809908	1	Throttle Cable	

> Change from previous revision



## 7.1 Throttle Plate

### Diesel Units



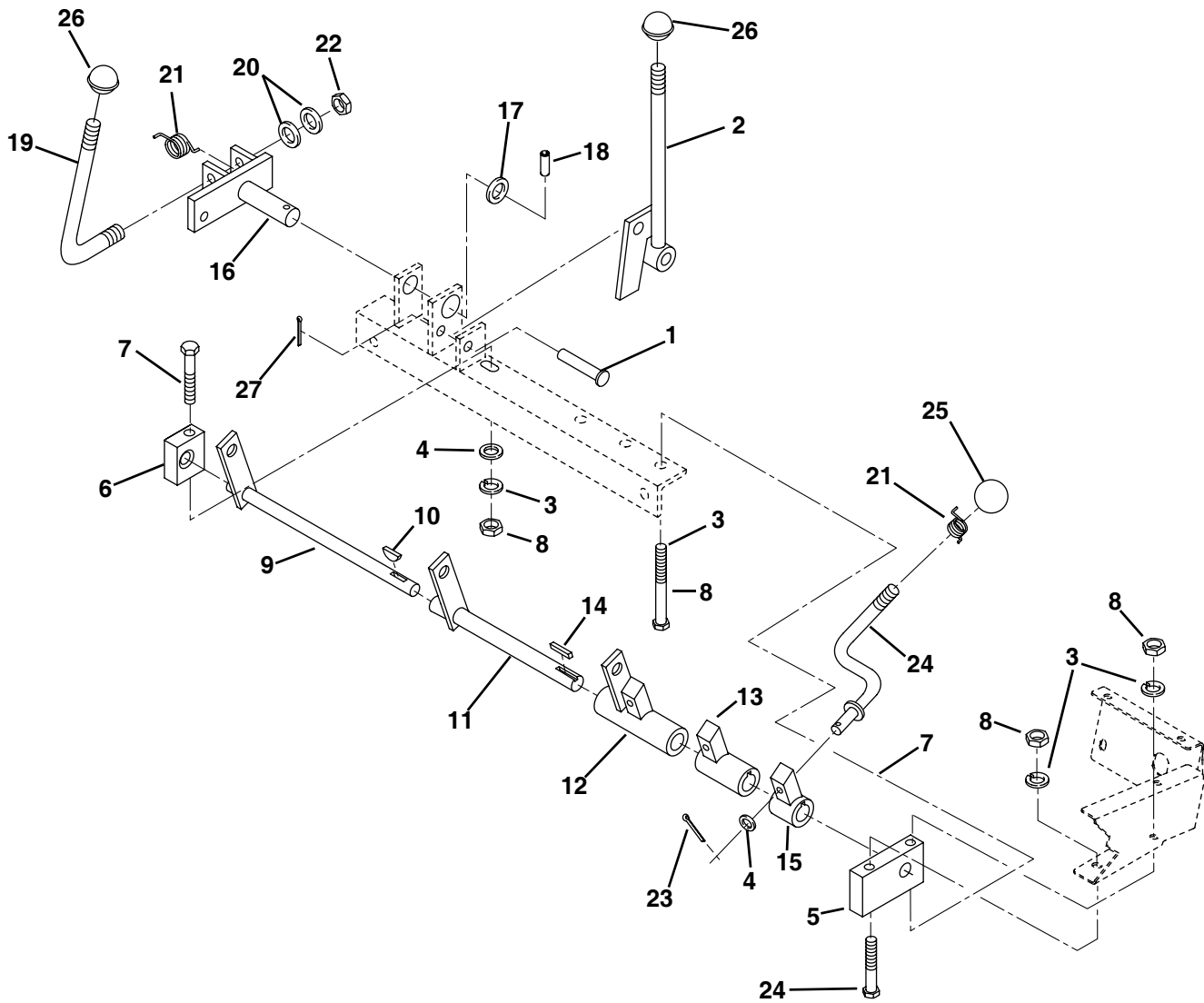
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	361646	1	Fuse Holder	
2	361701	1	Fuse, 30 Amp	
3	403912	2	Screw, #10-24 x 5/8" Truss Head	
4	446118	2	Lockwasher, #10 Heavy	
5	444310	2	Nut, #10-24 Hex	
6	131805	1	Throttle Cable	
7	363961	1	Switch, Glow Plug	
8	363962	1	Boot, Toggle Switch	

> Change from previous revision

# GREENS KING IV

Serial No. All

## 8.1 Upper Control Linkage

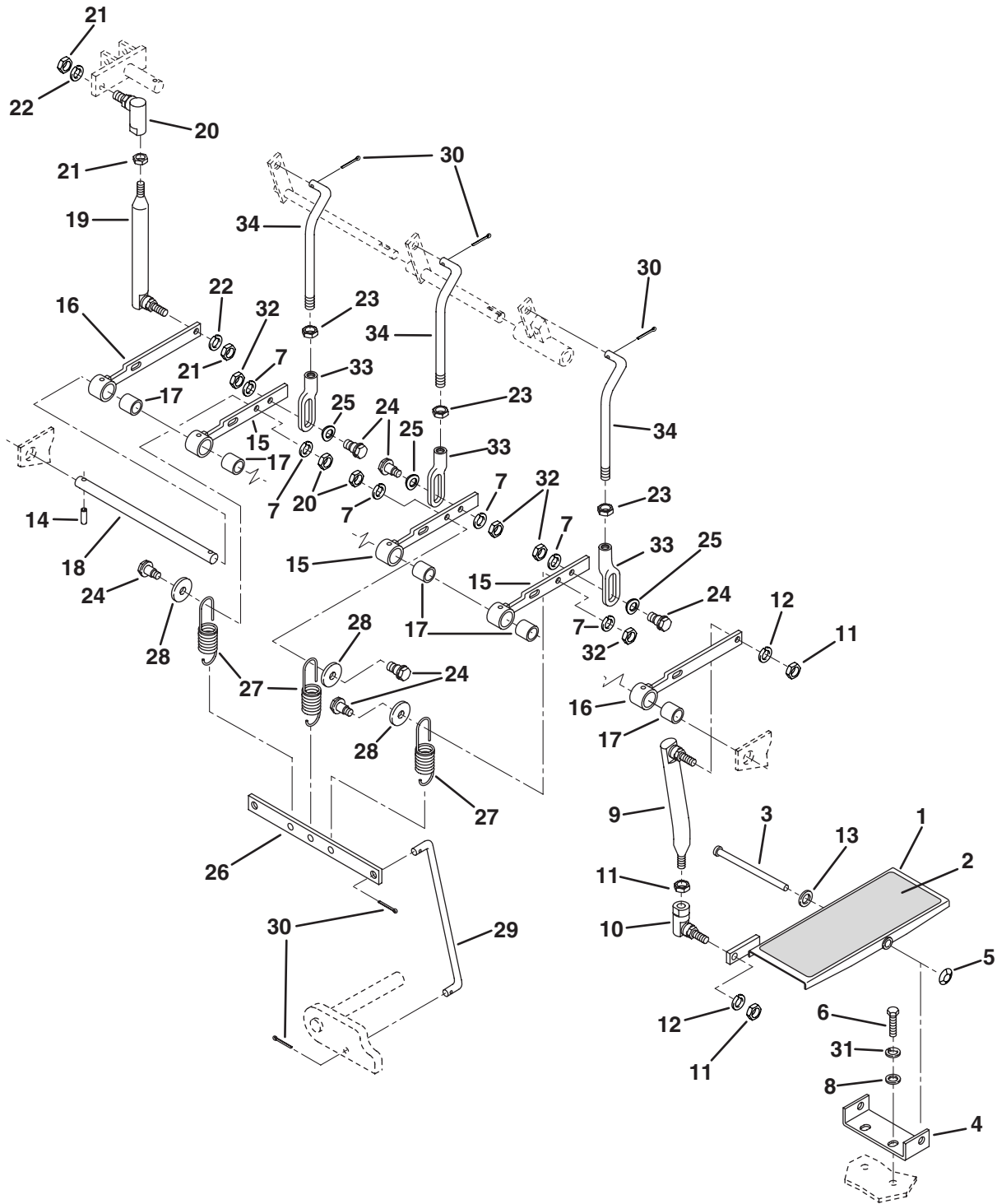


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	461457	1	Clevis Pin, 3/8 x 2-1/4"	
2	1002808	1	Lever, Parking Brake	
3	446142	3	Lockwasher, 3/8 Hvy	
4	453011	4	Flat Washer, 3/8 SAE	
5	353994	1	Block, LH	
6	354009	1	Block, RH	
7	400274	2	Screw, 3/8-16 x 2-1/2" Hex Head	
8	443110	3	Nut, 3/8-16 Hex	
9	1004911	1	Shaft, Left Reel Mower Control	
10	463003	1	Key, 1/8 x 1/2" Woodruff	
11	131793	1	Tube, Center Reel Mower Control	
12	1001112	1	Tube, Right Reel Mower Control	
13	1001113	1	Arm, Center Reel Mower Control	
14	331143	1	Key, 1/8 x 3/4" Parallel	
15	1001114	1	Arm, Left Reel Mower Control	
16	131762	1	Traction Pin and Arm	
17	311812	AR	Washer	
18	461173	1	Drive Pin, 5/32 x 1"	
19	162572	1	Traction Lever	
20	455012	AR	Washer	
21	336830	4	Spring	
22	444784	1	Lock Nut, 1/2-13 Center	
23	460014	3	Cotter Pin, 3/32 x 3/4"	
24	390891	3	Handle, Reel Control	
25	326731	3	Knob, Reel Control	
26	315267	2	Knob	
27	460026	1	Cotter Pin, 1/8 x 3/4"	
28	400276	1	Screw, 3/8-16 x 3" Hex Head	

> Change from previous revision

## 9.1 Lower Control Linkage

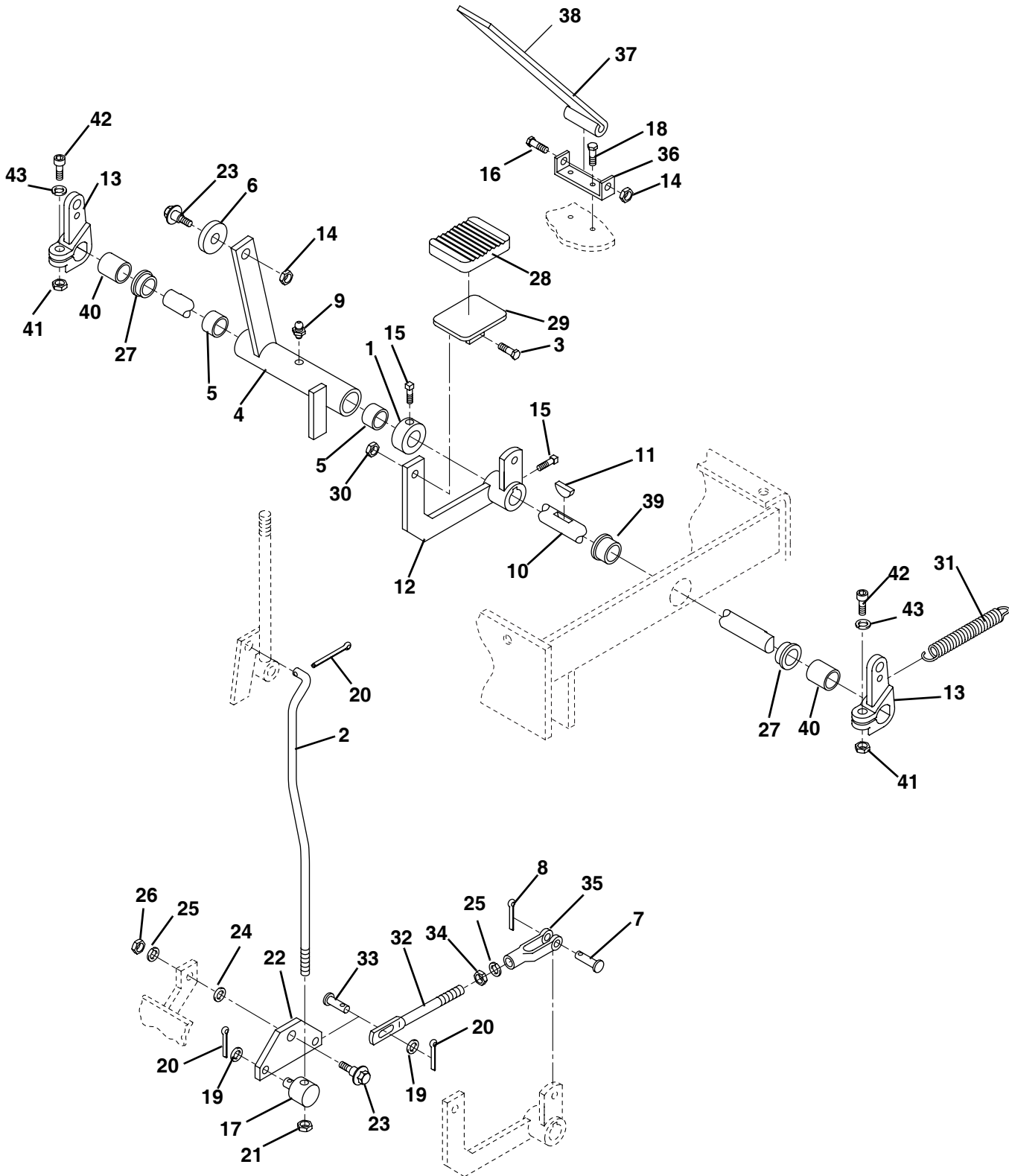


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	131777	1	Pedal, Lower/Lift	
2	338204	1	Pad, Foot	
3	461486	1	Clevis Pin	
4	361157	1	Bracket, Pedal	
5	445521	1	Nut, 3/8 Pal	
6	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
7	446142	6	Lockwasher, 3/8 Hvy	
8	453009	2	Flat Washer, 5/16	
9	365654	1	Rod, Lower/Lift Pedal	
10	310089	1	• Ball Joint, Type G	
11	443812	3	• Nut, 3/8-24 Jam	
12	446142	2	• Lockwasher, 3/8 Heavy	
13	453011	5	Flat Washer, 3/8 SAE	
14	461385	2	Roll Pin, 3/16 x 1-1/4"	
15	131125	3	Lever Assembly, Reel Spool	Includes Three of Item 17
16	131126	2	Lever Assembly, Traction Lift Spool	Includes Two of Item 17
17	304392	5	• Bushing	
18	363423	1	Shaft	
19	365653	1	Rod	
20	310089	1	• Ball Joint, Type R109	
21	443812	3	• Nut, 3/8-24 Jam	
22	446142	2	• Lockwasher, 3/8 Heavy	
23	443810	3	Nut, 3/8-16 Jam	
24	344996	6	Shoulder Bolt	
25	454025	3	Wave Washer, 1/2	
26	363913	1	Bar, Tie	
27	354012	3	Spring	
28	307524	3	Washer	
29	363912	2	Link, Tie Bar	
30	460026	7	Cotter Pin, 1/8 x 3/4"	
31	446136	2	Lockwasher, 5/16 Hvy	
32	443110	6	Nut, 3/8-16 Hex	
33	3002257	3	Link	
34	363911	3	Rod-Reel Spool Lockout	

> Change from previous revision

## 10.1 Pedal Linkage

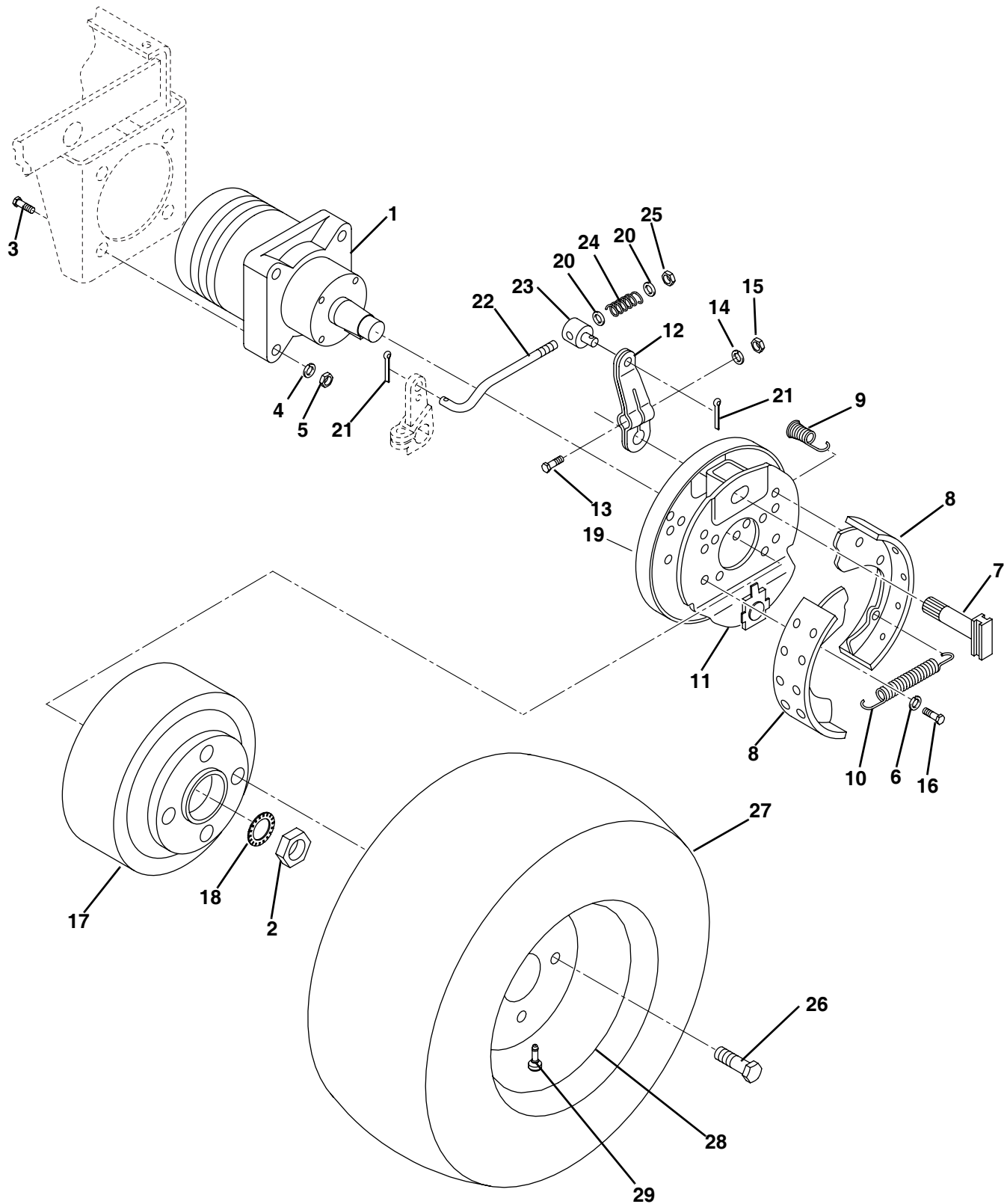


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	367579	1	Collar, Locking	
2	338276	1	Rod, Parking Brake	
3	400188	1	Screw, 5/16-18 x 1" Hex Head	
4	2500081	1	Treadle Arm Assembly	
5	310288	2	• Bearing	
6	361114	1	Roller, Treadle Arm	
7	461485	1	Clevis Pin, 3/8x x1-1/8"	
8	460014	1	Cotter Pin, 3/32 x 3/4"	
9	471214	1	Grease Fitting, 1/4-28	
10	2811529	1	Shaft, Brake	
11	463017	3	Key, 3/16 x 3/4" Woodruff	
12	131637	1	Brake Pedal Weldment	
13	2809910	2	Brake Arm	
14	444762	2	Nut, 3/8-16 Centerlock	
15	412014	4	Set Screw, 5/16-18 x 1/2" Sq Head	
16	400280	1	Screw, 3/8-16 x 4" Hex Head	
17	353973	1	Guide, Brake	
18	403753	2	Screw, 1/4-20 x 1/2" Hex Head	
19	453011	2	Flat Washer, 3/8 SAE	
20	460026	3	Cotter Pin, 1/8 x 3/4"	
21	445780	1	Locknut, 3/8-24 Hex	
22	361088	1	Bracket, Brake Pivot	
23	344996	2	Shoulder Bolt	
24	454025	1	Wave Washer, 1/2	
25	446142	2	Lockwasher, 3/8 Hvy	
26	443110	1	Nut, 3/8-16 Hex	
27	352726	2	Bushing, Brake Pedal Shaft	
28	353962	1	Pad, Pedal	
29	160006	1	Pad, Mounting Plate Assembly	
30	444716	1	Nut, 5/16-18 Gripco	
31	353767	1	Spring, Brake Pedal Return	
32	363888	1	Rod, Brake Pedal	
33	361095	1	Clevis Pin	
34	443812	1	Nut, 3/8-24 Jam	
35	319161	1	Yoke	
36	363378	1	Bracket, Accelerator Pedal	
37	363377	1	Accelerator Pedal	
38	363705	1	Pad, Pedal	
39	2810683	1	Bushing, Brake Shaft	
40	2811528	2	Spacer, Brake	
41	443106	2	Nut, 5/16-18 Hex	
42	434003	2	Screw, 5/16-18 x 1" Socket Head	
43	446136	2	Lockwasher, 5/16 Heavy	

> Change from previous revision

## 11.1 Wheel Motors and Brakes



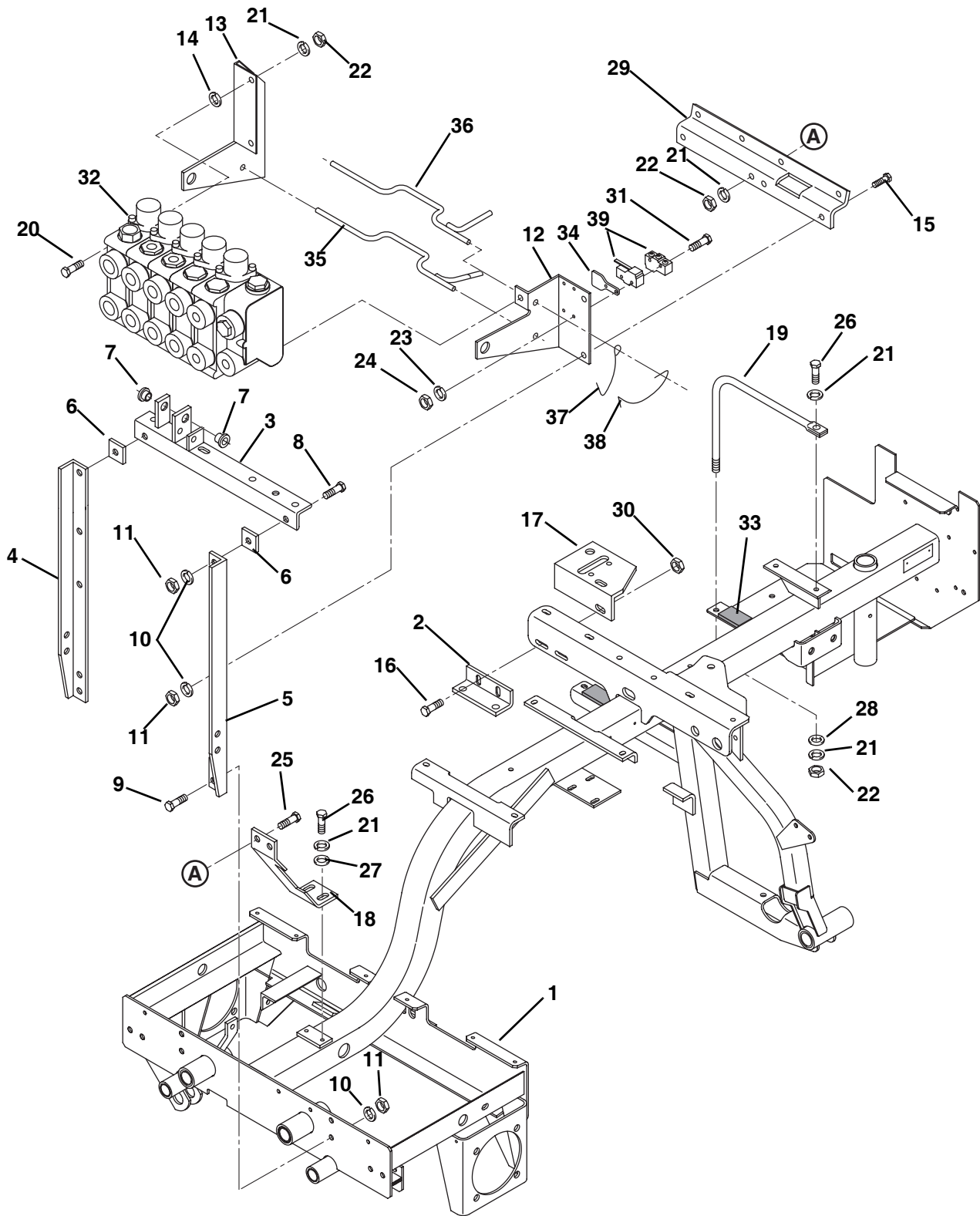


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	122675	2	Wheel Motor	See 38.1
	463027	2	• Key	
2	590101	2	• Nut	
3	400416	8	Screw, 1/2-13 x 2-1/2" Hex Head	
4	446154	8	Lockwasher, 1/2 Heavy	
5	443118	8	Nut, 1/2-13 Hex	
6	446136	8	Lockwasher, 5/16 Heavy	
	501307	2	Brake Assembly	
7	546516	1	• Cam, Brake Actuating	
8	501150	1	• Brake Shoe (Set of 2)	
9	353868	2	• Spring, Brake Shoe Retaining	
10	555714	1	• Spring, Brake Shoe Return	
11	130191	1	• Brake Backing Plate	
12	554526	2	Lever	
13	400232	1	• Screw, 5/16-24 x 1-3/4" Hex	
14	446136	1	• Lockwasher, 5/16 Heavy	
15	443108	1	• Nut, 5/16-24 Hex	
16	434006	8	Screw, 5/16-18 x 3/4" Socket Head	
17	207461	2	Brake Drum and Wheel Hub	
18	447030	2	Lockwasher, 1" External Tooth	
19	390742	2	Dust Shield	
20	453011	4	Flat Washer, 3/8	
21	460026	4	Cotter Pin, 1/8 x 3/4"	
22	353943	2	Rod, Brake Arm Link	
23	353973	2	Guide, Brake	
24	351956	2	Spring	
25	445780	2	Locknut, 3/8-24 Hex	
26	353914	8	Bolt, Wheel	
27	353844	2	Tire	
28	1003638	2	Wheel	
29	360111	2	Valve, Inflation	

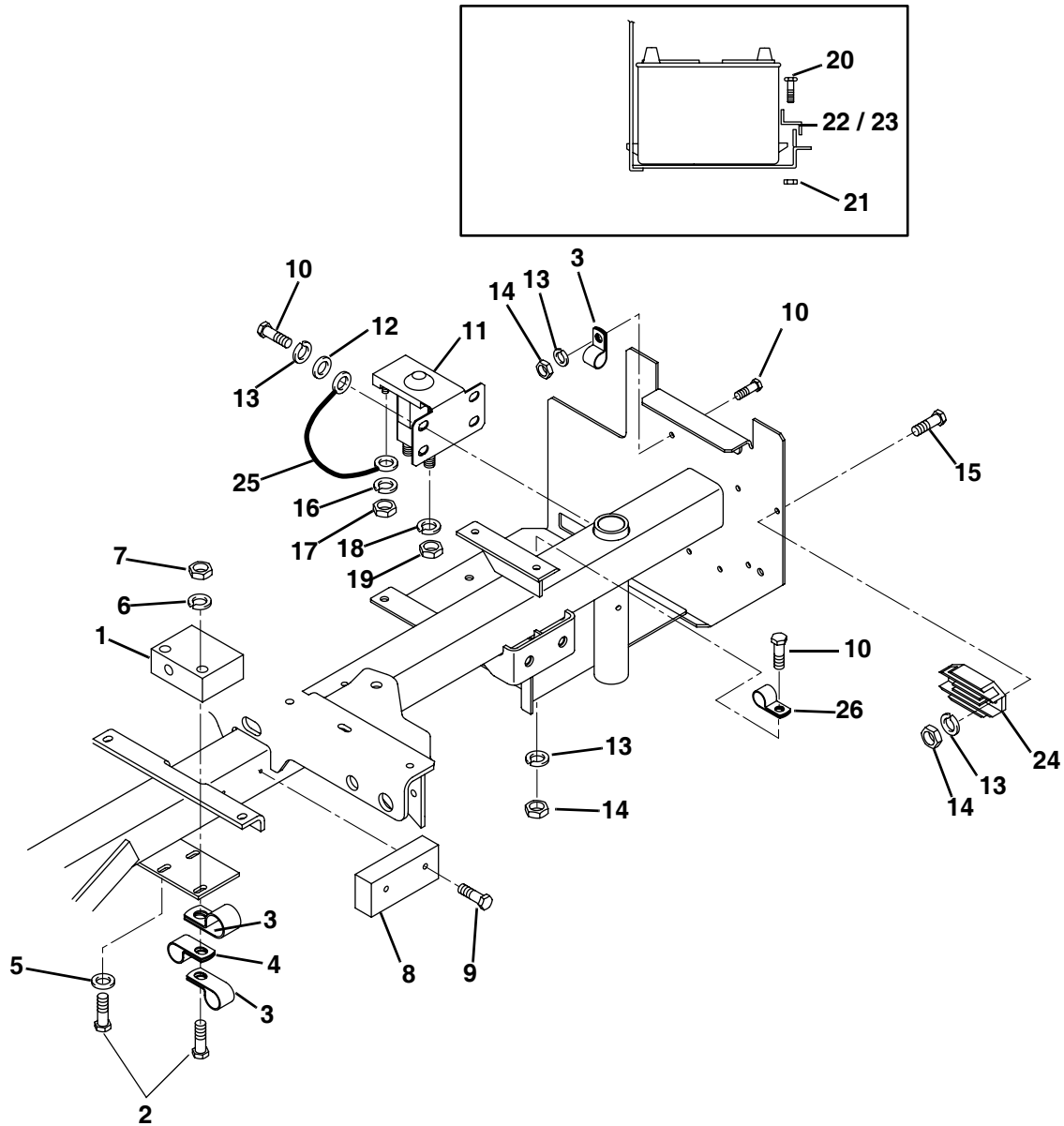
> Change from previous revision

## 12.1 Frame





## 13.1 Rear Frame

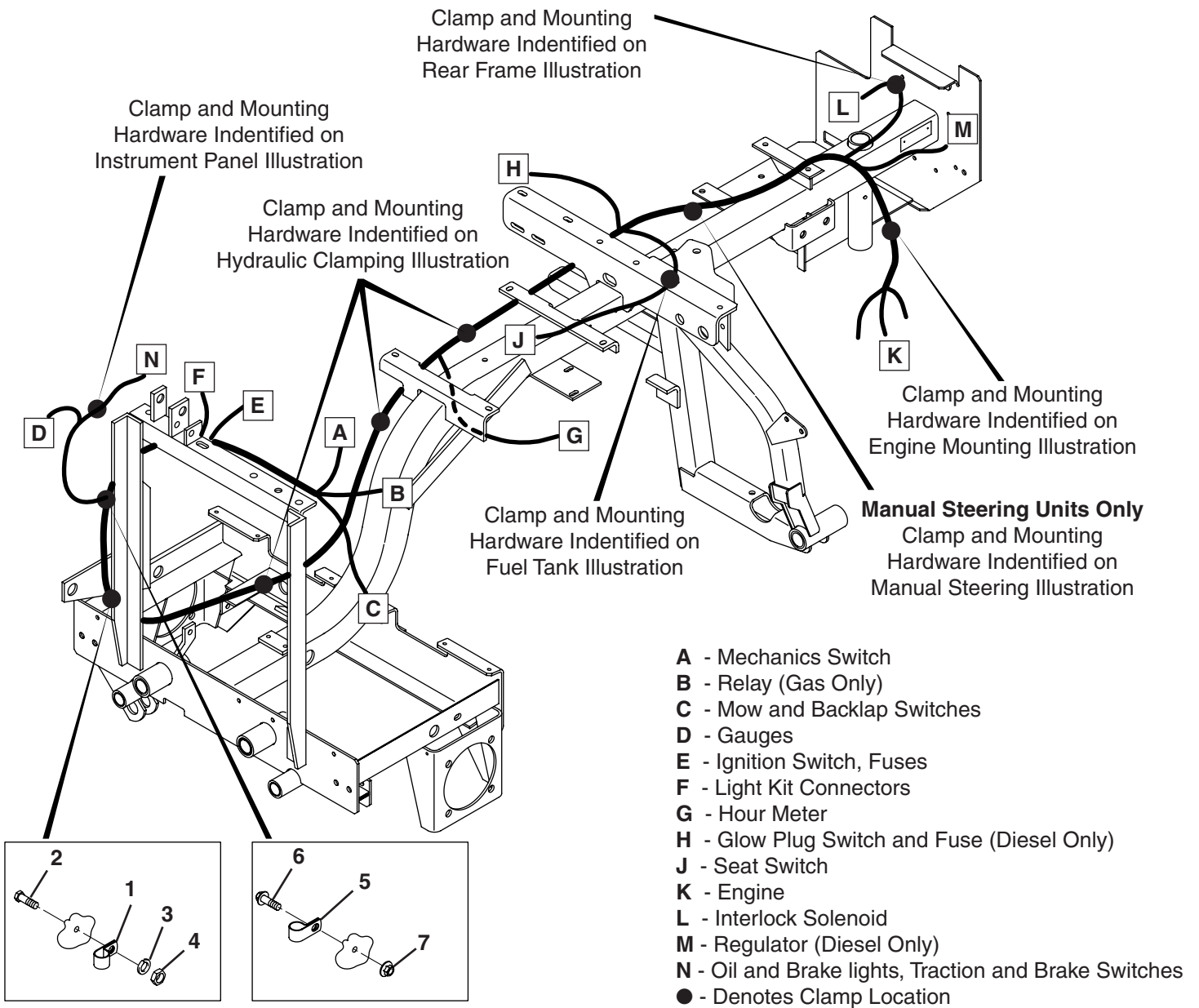


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Load Control Valve	
2	400198	2	Screw, 5/16-18 x 2-1/4" Hex Head	
3	354081	3	Clamp	
4	366811	1	Clamp	
5	453009	1	Flat Washer, 5/16	
6	446136	2	Lockwasher, 5/16 Heavy	
7	443106	2	Nut, 5/16-18 Hex	
8	3009544	1	Seat Time Delay Relay	Diesel Units Only
9	408889	2	Screw, #10-24 x 5/8" Thread Form	Diesel Units Only
10	400106	4	Screw, 1/4-20 x 5/8" Hex Head	
11	131905	1	Solenoid, Starter	
12	452004	2	Flat Washer, 1/4	
13	446130	AR	Lockwasher, 1/4 Heavy	
14	443102	AR	Nut, 1/4-20 Hex	
15	400112	2	Screw, 1/4-20 x 1" Hex Head	Diesel Units Only
16	446118	2	Lockwasher, #10	
17	444312	2	Nut, #10-32 Hex	
18	447214	2	Lockwasher, 5/16 Internal Tooth	
19	443808	2	Nut, 5/16-18 Spiralock	
20	441814	1	Screw, 3/8-16 x 1-3/4" Hex Head	
21	444810	1	Locknut, 3/8-16 Flex	
22	363910	1	Hold Down, Battery	
23	364076	1	Hold Down, Narrow Battery	
24	2810649	1	Regulator	Diesel Engine Only (Part of Engine)
25	2500032	1	Wire, Interlock Solenoid Ground	
26	345666	1	Clamp, Wire Harness	

> Change from previous revision

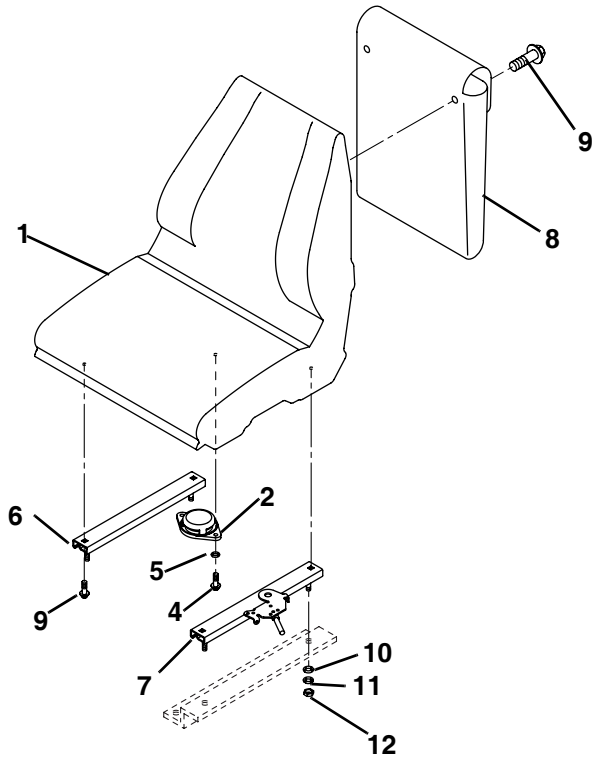
## 14.1 Electrical Routing



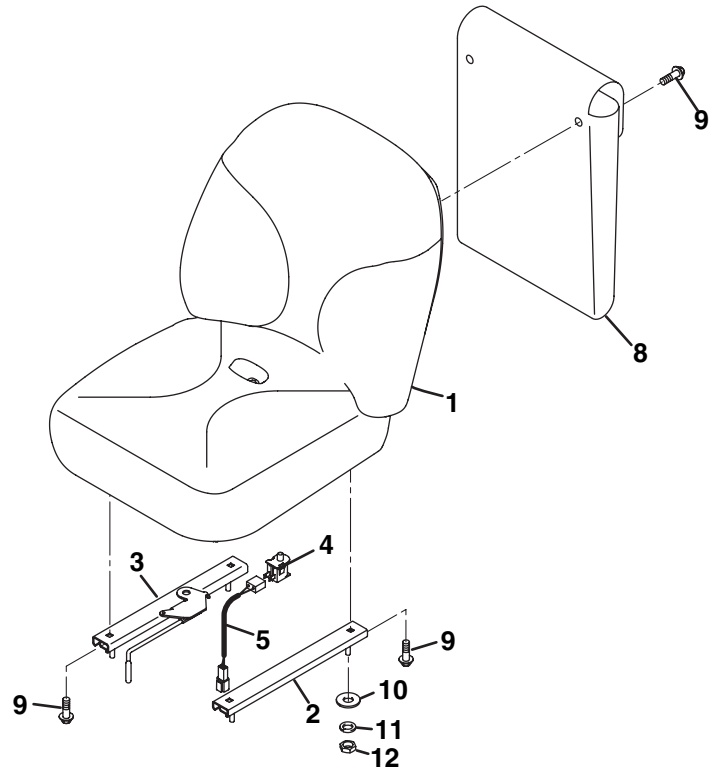
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	361064	2	Clamp, Wire Harness	Gas Units
1	345671	2	Clamp, Wire Harness	Diesel Units
2	400260	1	Screw, 3/8-16 x 7/8" Hex Head	
3	446142	1	Lockwasher, 3/8 Heavy	
4	443110	1	Nut, 3/8-16 Hex	
5	354081	1	Clamp, Wire Harness	
6	403751	1	Screw, 5/16-18 Whizlock	
7	445781	1	Nut, 5/16-18 Whizlock	

> Change from previous revision

## 15.1 Seat



**Milsco Seat**



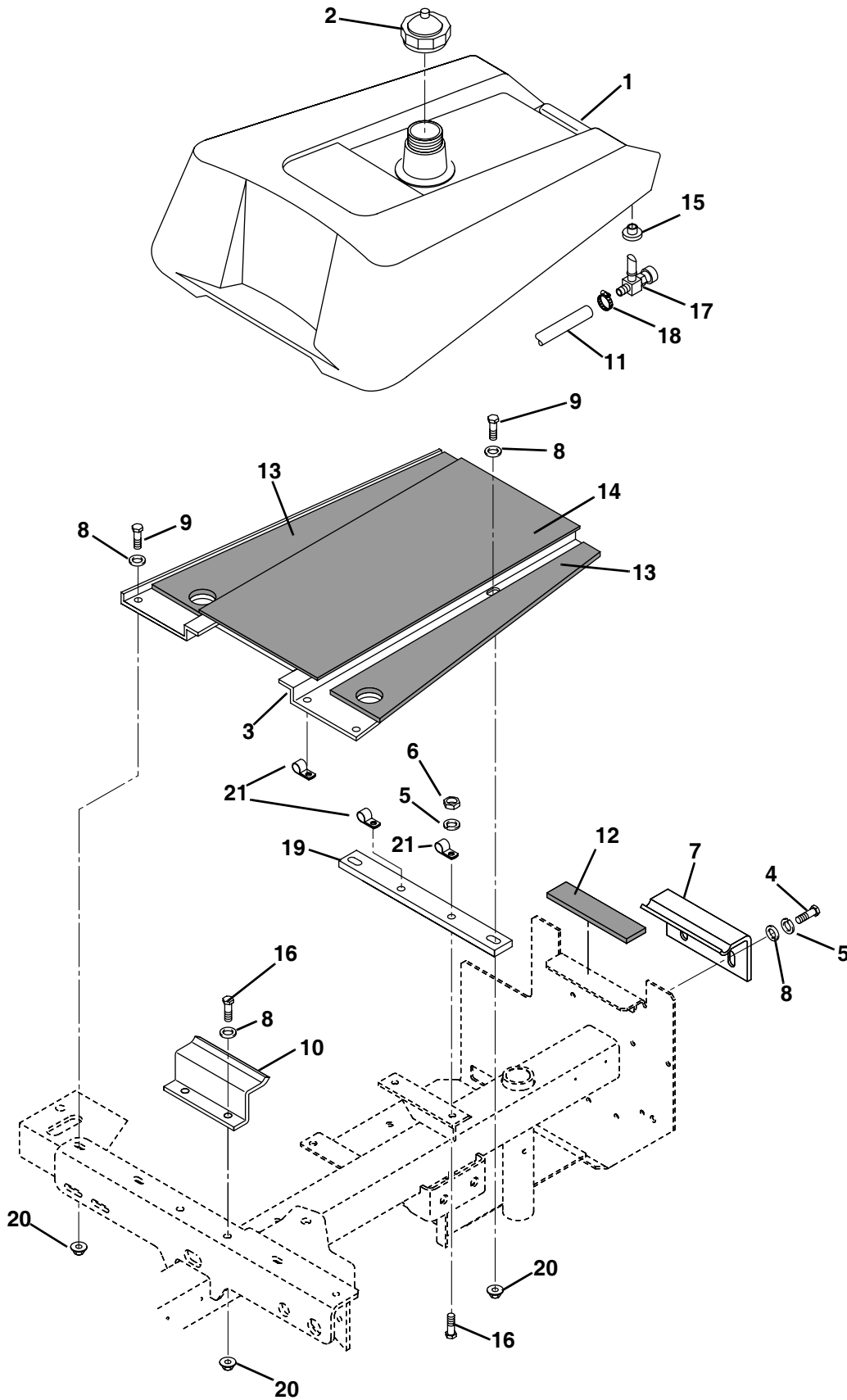
**Michigan Seat**

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	66172	1	Seat	Milsco Seat S/N 62287-1601~2625 S/N 62288-1601~4278 S/N 62289-1601~3864
2	554390	1	• Switch	
3	163583	1	• Wire Harness (Not Shown)	
4	434011	2	• Screw, 1/4-20 x 5/8" Socket Head	
5	446130	2	• Lockwasher, 1/4 Heavy	
6	3006988	1	Adjuster, Slave	
7	3006991	1	Adjuster, Latching	
1	4139430	1	Seat	Michigan Seat S/N 62287-2626 and Up S/N 62288-4279 and Up S/N 62289-3865 and Up
2	523357	1	• Seat Adjuster	
3	523356	1	• Seat Adjuster with Handle	
4	4139450	1	• Switch, Seat	
5	5003769	1	Harness, Seat	
8	3003928	1	Literature Pouch	
9	3001328	6	Screw, Special	
10	452006	4	Flat Washer, 5/16	
11	446136	4	Lockwasher, 5/16 Heavy	
12	443106	4	Nut, 5/16-18 Hex	

> Change from previous revision

## 16.1 Gas Fuel Tank

Serial No. 62287 All  
Serial No. 62288 All



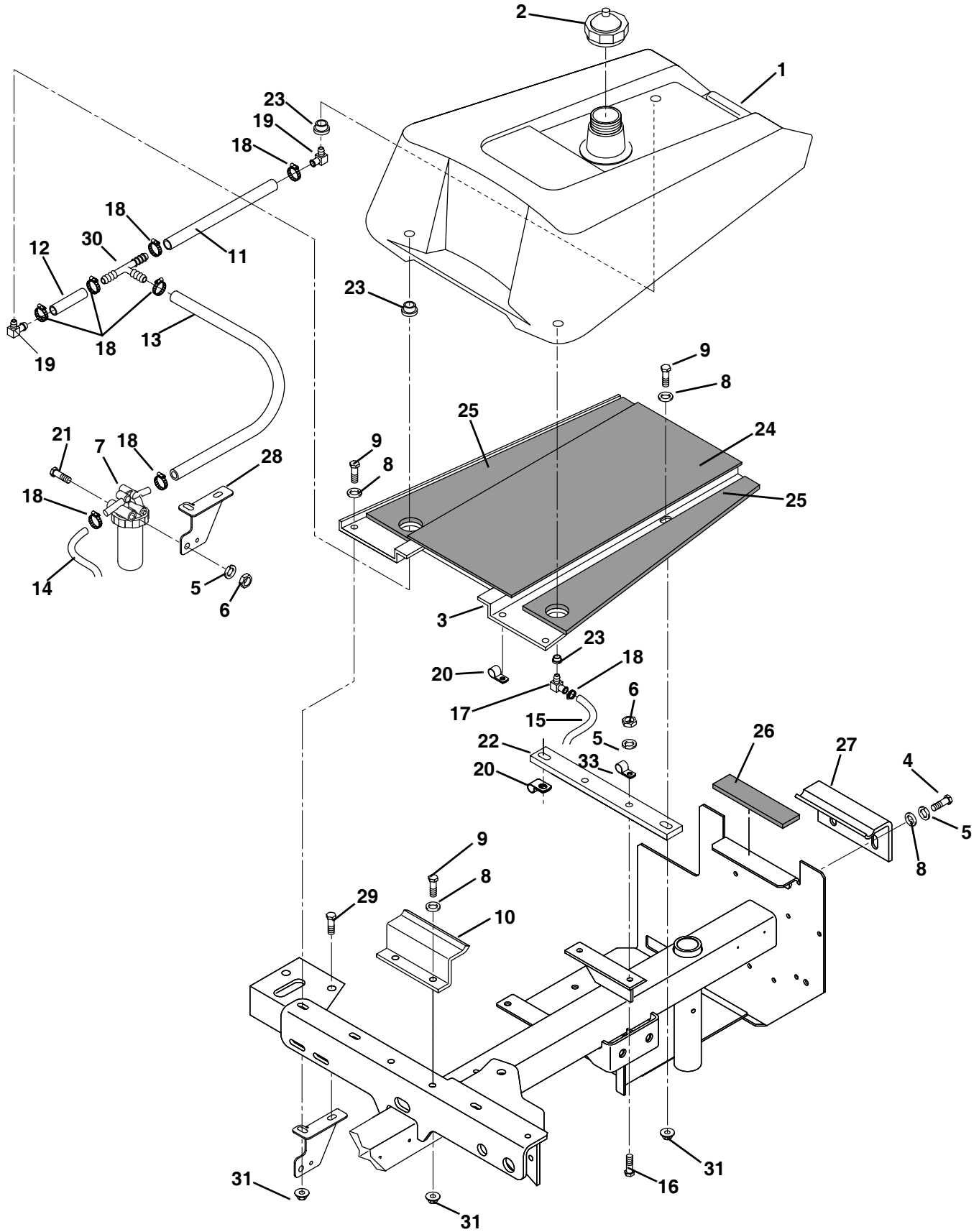


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001305	1	Fuel Tank	Includes Decal
2	2500174	1	Cap, Fuel Tank	
3	390344	1	Pan, Tank Support	
4	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
5	446136	4	Lockwasher, 5/16 Heavy	
6	443106	2	Nut, 5/16-18 Hex	
7	557773	1	L-Clamp	
8	453009	8	Flat Washer, 5/16	
9	400188	6	Screw, 5/16-18 x 1" Hex Head	
10	3001321	1	Clamp, Fuel Tank	
11	554751	AR	Fuel Line, Tank to Engine	
12	361174	1	Pad, Neoprene	
13	337295	2	Pad, Neoprene	
14	337306	1	Pad, Neoprene	
15	361117	1	Bushing	
16	400186	4	Screw, 5/16-18 x 7/8" Hex Head	
17	2810702	1	Shut Off Valve	
18	48540-01	2	Clamp, Hose	
19	361144	1	Plate, Adapter	
20	445781	6	Nut, 5/16-18 Hex Flange	
21	345666	3	Clamp, Wire Harness	

> Change from previous revision

## 17.1 Diesel Fuel Tank



# GREENS KING IV PLUS

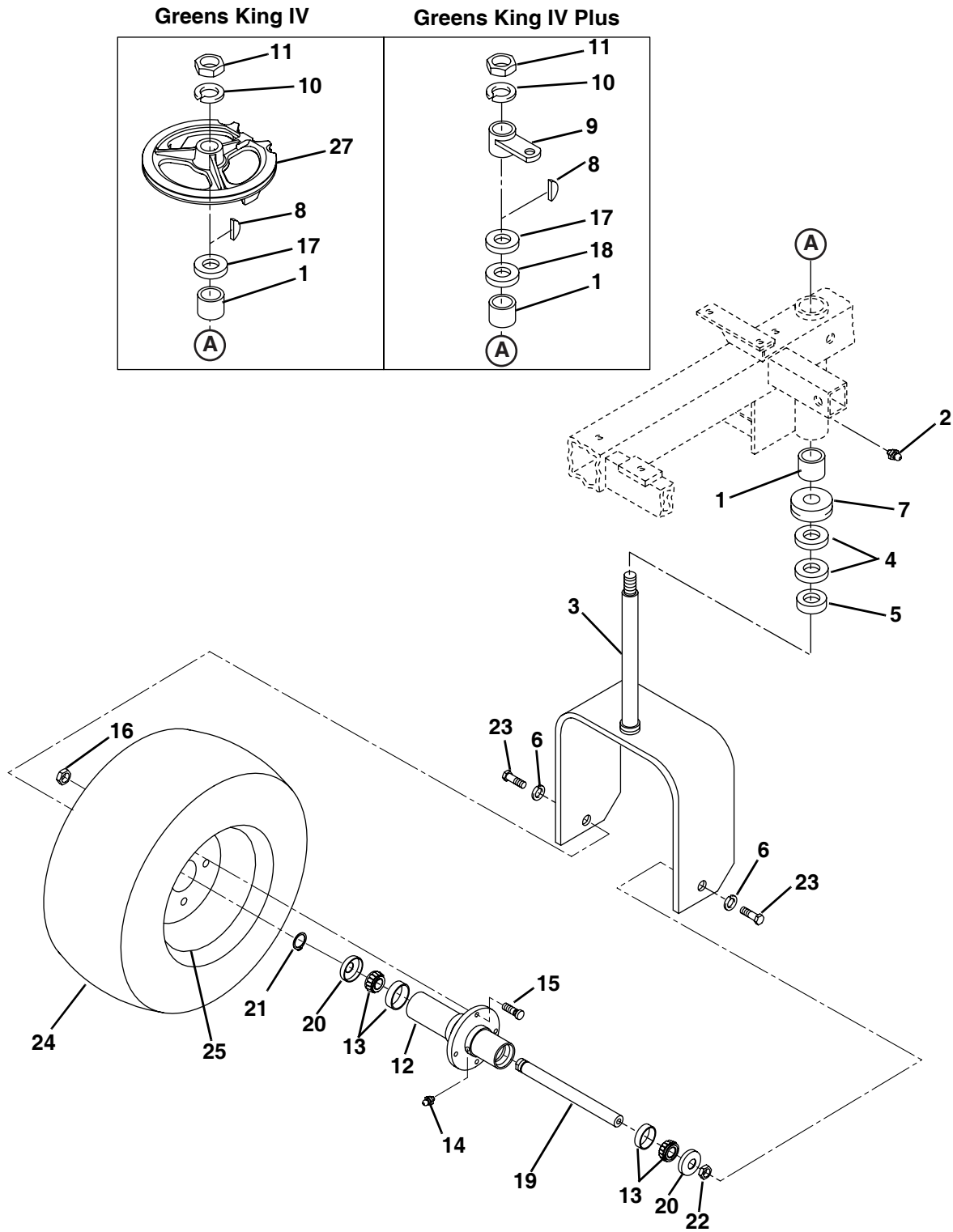
Item	Part No.	Qty.	Description	Serial Numbers/Notes
> 1	3009934	1	Fuel Tank	
2	4106900	1	Cap, Fuel Tank	
3	390344	1	Pan, Tank Support	
4	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
5	446136	5	Lockwasher, 5/16 Heavy	
6	443106	3	Nut, 5/16-18 Hex	
7	5001947	1	Fuel Filter Assembly	Included with engine
	550489	1	• Fuel Filter Element	
8	453009	10	Flat Washer, 5/16	
9	400188	8	Screw, 5/16-18 x 1" Hex Head	
10	3001321	1	Clamp, Fuel Tank	
11	554748	19 in.	Fuel Hose, Rear Tank to Tee	Bulk, Cut to Length
12	554748	4 in.	Fuel Hose, Front Tank to Tee	Bulk, Cut to Length
13	554748	9 in.	Fuel Hose, Tee to Filter	Bulk, Cut to Length
14	554748	40 in.	Fuel Hose, Filter to Engine	Bulk, Cut to Length
15	554752	17 in.	Fuel Hose, Engine Overflow to Tank	Bulk, Cut to Length
16	400186	2	Screw, 5/16-18 x 7/8" Hex Head	
17	361748	1	Fuel Fitting, 90°	
18	48540-01	10	Clamp, Hose	
19	3003704	2	Fuel Fitting, 90°	
20	345666	2	Clamp	
21	400200	1	Screw, 5/16-18 x 2-1/2" Hex Head	
22	361144	1	Plate, Adapter	
23	361117	3	Bushing	
24	337306	1	Pad, Neoprene	
25	337295	2	Pad, Neoprene	
26	361174	1	Pad, Neoprene	
27	557773	1	L-Clamp	Includes Decal
28	3009933	1	Bracket, Fuel Filter	
29	441602	1	Carriage Bolt, 5/16-18 x 3/4"	
30	366354	1	Tee, Nylon	
31	445781	6	Nut, 5/16-18 Hex Flange	
32	354081	1	Clamp, Wire Harness	

> Change from previous revision

# GREENS KING IV

Serial No. All

## 18.1 Steering Axle

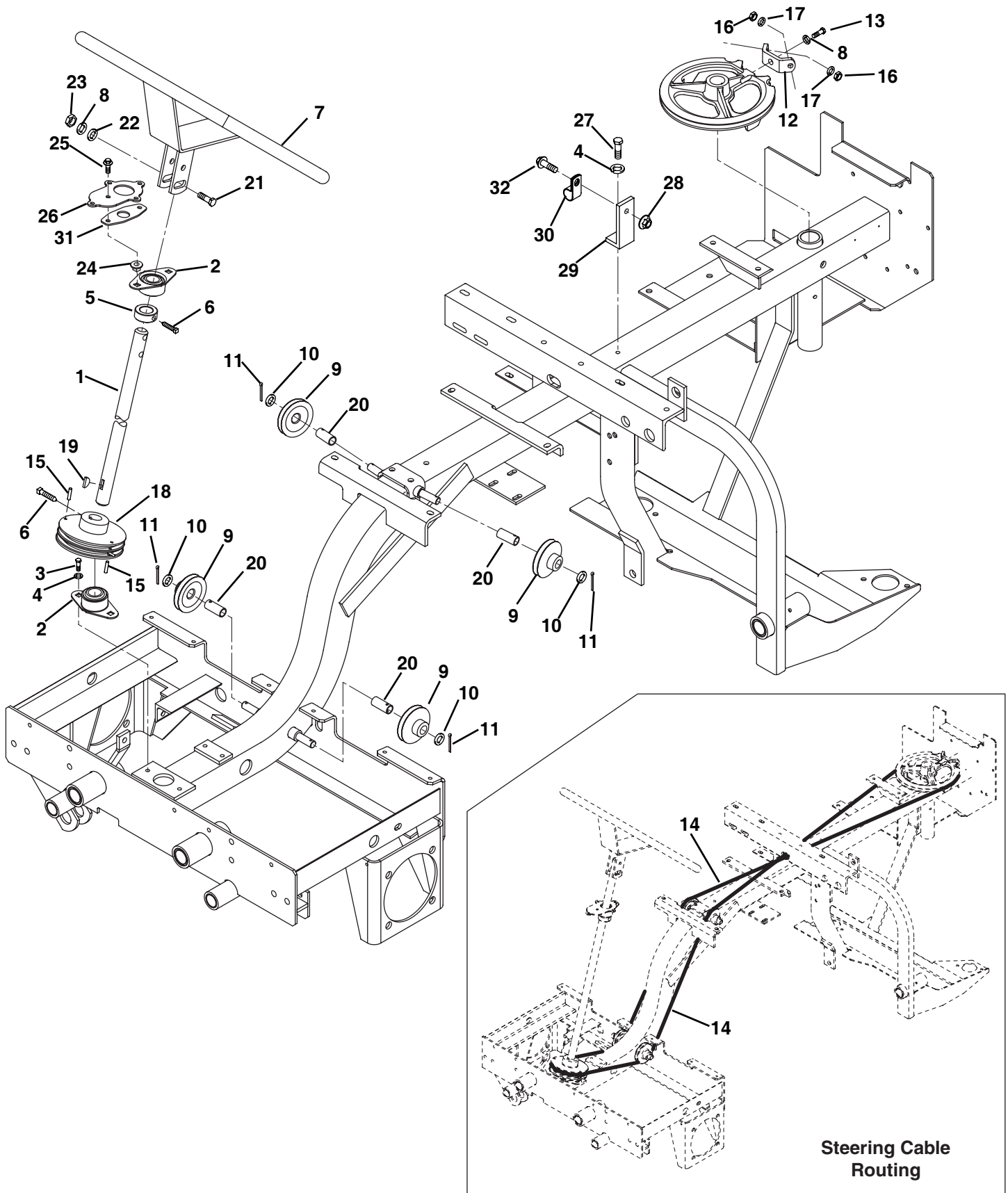


## GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	3007694	2	Bushing, Rear Steering Tube	Included in Frame Assembly	
2	471214	1	Grease Fitting		
3	1004577	1	Steering Fork		
4	360113	2	Thrust Washer		
5	345621	1	Seal, Steering Shaft		
6	446154	2	Lockwasher, 1/2 Heavy		
7	345401	1	Cup, Thrust Bearing		
8	463019	1	Key, 3/16 x 7/8" Woodruff		
9	163750	1	Crank, Steering Axle		Greens King IV Plus Units
10	446178	1	Lockwasher, 3/4 Heavy		
11	443832	1	Nut, 3/4-16 Hex Jam		
12	1003668	1	Axle Tube Assembly		
13	500596	2	• Bearing, Cup and Cone		
14	471217	1	• Grease Fitting		
15	549730	4	• Bolt, Wheel		
16	354807	4	• Nut, Wheel Mounting		
17	303629	AR	Washer, 5/64" Thick	Greens King IV Plus Units	
18	365508	AR	Washer, 3/64" Thick		
19	337358	1	Axle, Steering		
20	360680	2	Ring, Nilos		
21	458039	1	Ring, External Snap		
22	445790	1	Nut, Jam		
23	400442	2	Screw, 1/2-20 x 1-1/2" Hex Head		
24	353844	1	Tire, 18 x 9.5 x 8		
25	1003638	1	Wheel		
26	360111	1	Valve, Tire Inflation (Not Shown)		
27	218077	1	Pulley, Rear Steering		Greens King IV Units

> Change from previous revision

## 19.1 Manual Steering



# GREENS KING IV PLUS

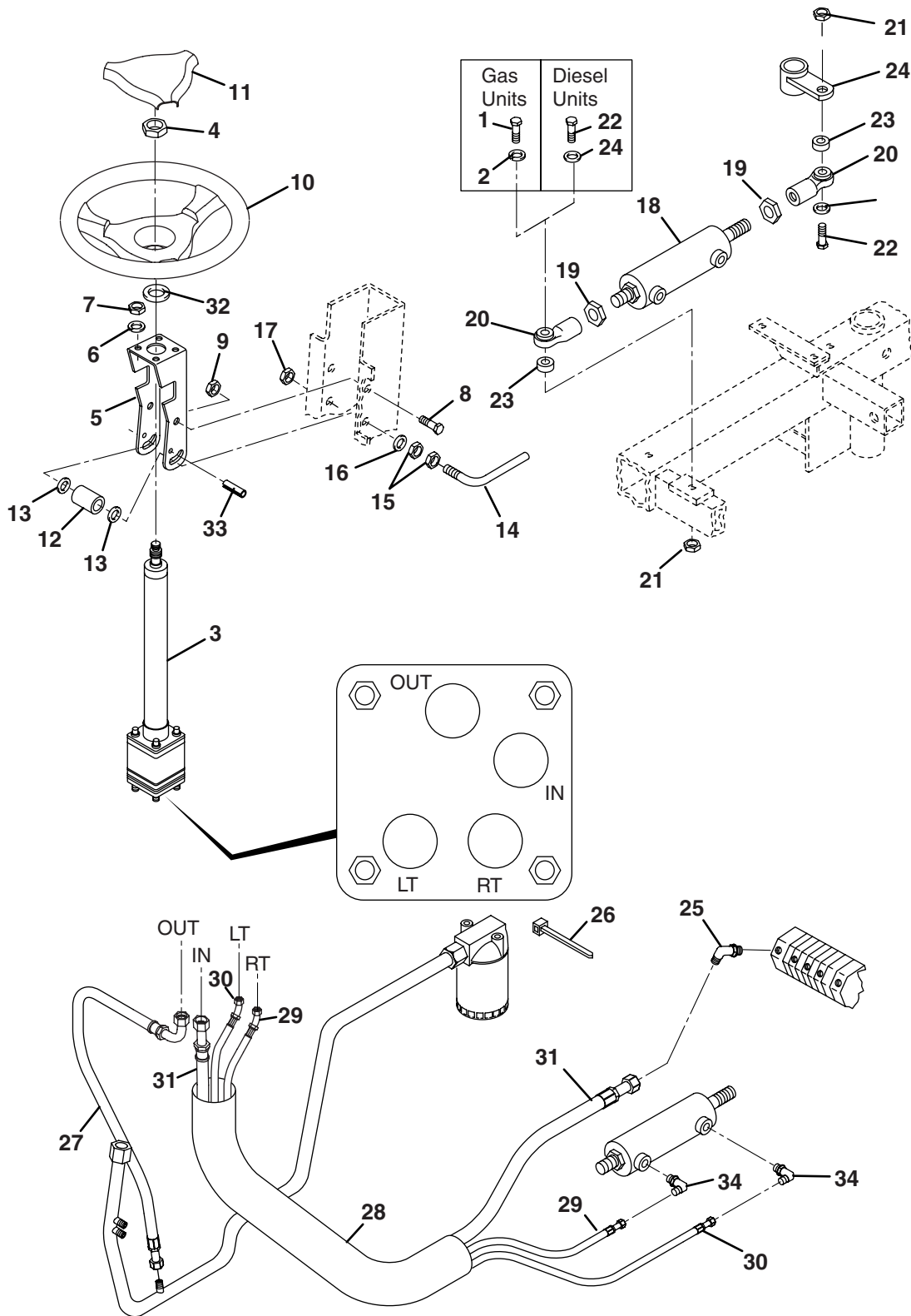
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	354022	1	Steering Shaft	
2	353349	2	Bearing, Self Aligning	
3	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
4	446136	2	Lockwasher, 5/16 Heavy	
5	353934	1	Collar, Steering Shaft	
6	412015	2	Screw, 5/16-18 x 5/8" Square Head	
7	122512	1	"D" Steering Wheel	
8	446142	3	Lockwasher, 3/8 Heavy	
9	338751	4	Pulley, Steering Cable	
10	453020	4	Flat Washer, 5/8	
11	460028	4	Cotter Pin, 1/8 x 1"	
12	354000	1	Bracket, Steering Cable	
13	400262	1	Screw, 3/8-16 x 1" Hex Head	
14	160040	2	Steering Cable	
15	461381	2	Roll Pin, 3/16 x 13/16"	
16	444716	2	Nut, 5/16-18 Gripco	
17	453009	1	Flat Washer, 5/16	
18	3002734	1	Pulley, Front Steering	
19	463017	1	Key, 3/16 x 3/4" Woodruff	
20	365249	4	Pulley, Sleeve	
21	400270	2	Screw, 3/8-16 x 2" Hex Head	
22	303873	4	Flat Washer, 3/8	
23	443142	2	Nut, 3/8-16 Hex	
24	2811790	2	Insert, Nylon Thread	
25	409710	2	Screw, 1/4-14 x 1" Thread Forming	
26	2811429	1	Plate, Steering Support	
27	400188	1	Screw, 5/16-18 x 1" Hex Head	
28	445781	1	Nut, 5/16-18 Whizlock Flange	
29	2811981	1	Bracket, Wire Harness Mounting	
30	345666	1	Clamp, Wire Harness	
31	2812064	1	Spacer, Steering	
32	403751	1	Screw, 5/16-18 x 3/4" Hex Flange	

> Change from previous revision

# GREENS KING IV

## 20.1 Steering Valve and Cylinder

Serial No. 62288 All  
Serial No. 62289 All





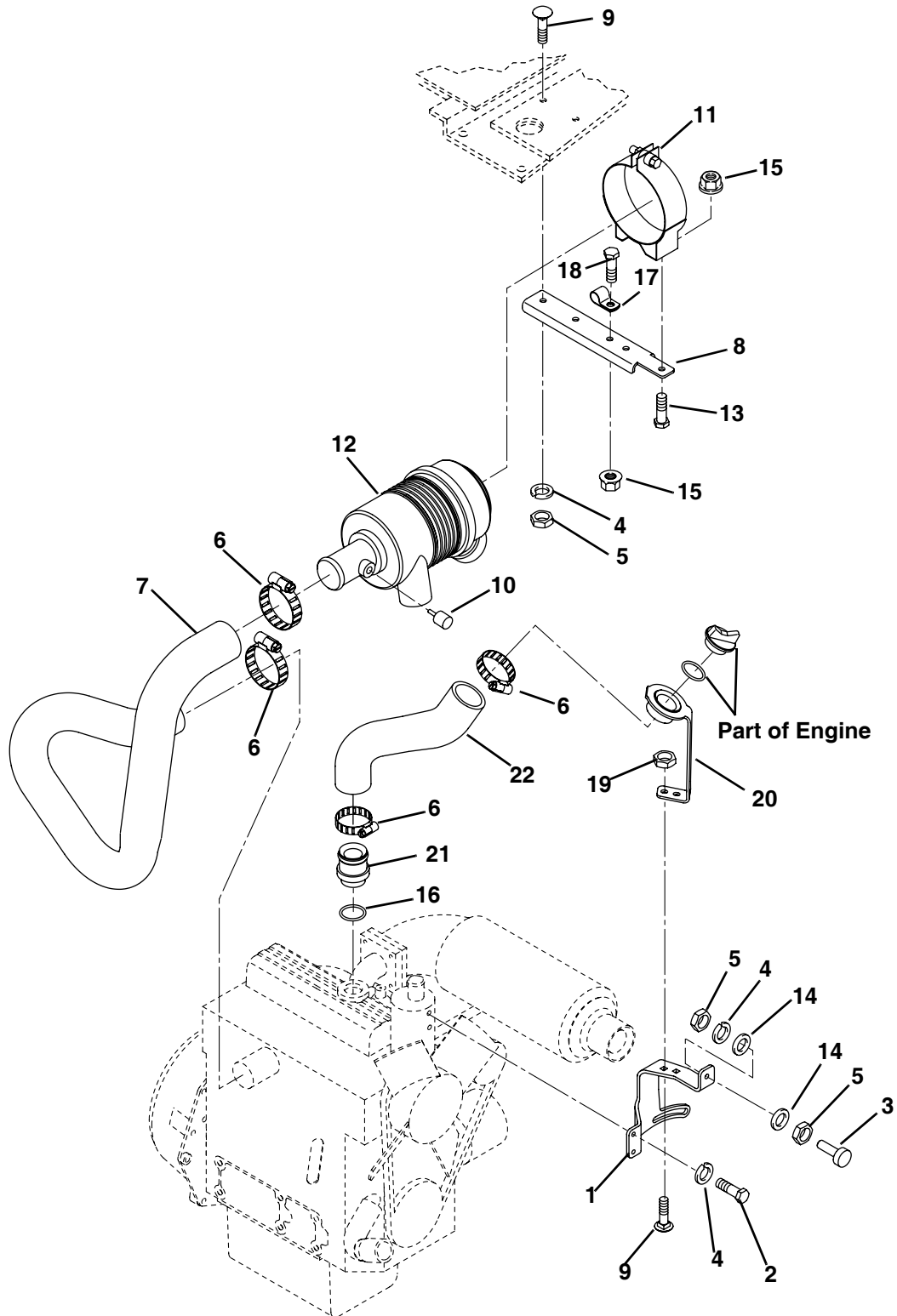
# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	400442	1	Screw, 1/2-20 x 1-1/4" Hex head	Gas Units
2	446154	1	Lockwasher, 1/2 Heavy	Gas Units
3	4136214	1	Hydrguide Steeing Valve	See 37.1
4	443828	1	• Nut, 5/8-16 Hex Jam	
5	3003367	1	Mount, Steering Unit	
6	446136	4	Lockwasher, 5/16 Heavy	
7	443108	4	Nut, 5/16-24 Hex	
8	400294	2	Screw, 3/8-24 x 3/4" Hex Head	
9	444744	2	Locknut, 3/8-24 Center	
10	2811364	1	Steering Wheel	
11	2811365	1	• Cap, Steering Wheel	
12	365207	1	Spacer	
13	452008	2	Flat Washer, 3/16	
14	365206	1	Lock Pin	
15	443810	2	Nut, 3/8-16 Hex Jam	
16	453011	1	Flat Washer, 3/8	
17	445763	1	Nut, 3/8-16 Whizlock	
18	4138509	1	Steering Cylinder	
	4137139	1	• Seal Kit	
19	443820	2	Nut, 1/4-20 Hex	
20	364234	2	Ball Joint	
21	444778	AR	Locknut, 1/2-20 Center Jam	
22	400444	AR	Screw, 1/2-20 x 1-3/4" Hex Head	
23	363004	2	Spacer, Cylinder Mounting	
24	453017	AR	Flat Washer, 1/2	
25	351399	1	Adapter, 90° Male 37° Flare	
26	473144	7	Tie Wrap	
27	132198	1	Hose, Steering Valve to Return Tube	
28	2500221	1	Power Steering Hose Bundle	
29	2500219	1	• Hose, Steering Valve to Cylinder	Marked with White Paint or Tape
30	2500218	1	• Hose, Steering Valve to Cylinder	
31	2500220	1	• Hose, Pump to Steering Valve	
32	2811547	1	Washer	
33	461387	1	Roll Pin, 1/4 x 1"	
34	351107	2	Adapter, 90°	

> Change from previous revision

## 21.1 Air Cleaner and Oil Fill Tube

Diesel Units Only



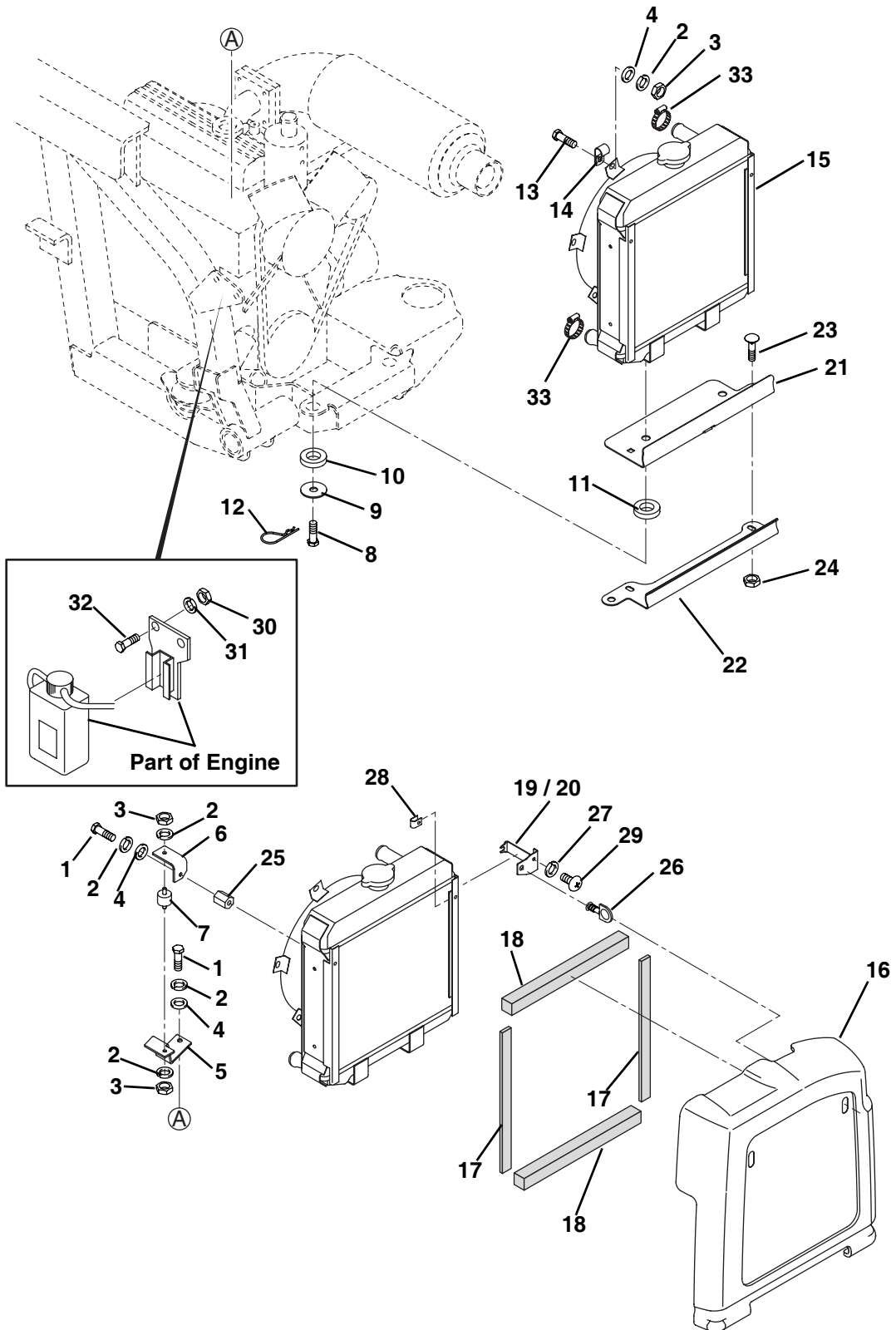
# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3009504	1	Bracket, Alternator	S/N 62289-1601 ~ 4129
1	4140398	1	Bracket, Alternator	S/N 62289-4130 and Up
2	362535	2	Screw, M6-1 x 16 mm Hex Head	
3	3006254	1	Bumper, Radiator	S/N 62289-1601 ~ 4129 Only
4	446130	5	Lockwasher, 1/4 Heavy	S/N 62289-1601 ~ 4129
4	446130	4	Lockwasher, 1/4 Heavy	S/N 62289-4130 and Up
5	443102	4	Nut, 1/4-20 Hex	S/N 62289-1601 ~ 4129
5	443102	2	Nut, 1/4-20 Hex	S/N 62289-4130 and Up
6	326799	4	Clamp, Hose	
7	3009654	1	Hose, Air Cleaner	
8	3009562	1	Bracket, Air Cleaner Mounting	
9	440040	4	Carriage Bolt, 1/4-20 x 5/8"	
10	3002365	1	Air Cleaner Indicator	
11	3002388	1	Bracket, Air Cleaner	
12	391127	1	Air Cleaner	
	5000913	1	• Element, Air Cleaner	
	5000912	1	• Cover, Air Cleaner	
	5000914	1	• Valve	
13	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
14	453023	2	Flat Washer, 1/4	S/N 62289-1601 ~ 4129 Only
15	445781	3	Nut, 5/16-18 Whizlock	
16	2809955	1	O-Ring	
17	361064	1	Clamp	
18	400108	1	Screw, 5/16-18 x 1" Hex Head	
19	445794	2	Nut, 1/4-20 Spiralock	
20	1004519	1	Oil Fill Assembly	
21	3009437	1	Fitting, Oil Fill	
22	3009436	1	Hose, Oil Fill	

> Change from previous revision

## 22.1 Radiator

Diesel Units Only



# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	362535	3	Screw, M6-1 x 16mm Hex Head	
2	446130	5	Lockwasher, 1/4 Heavy	
3	443102	3	Nut, 1/4-20 Hex	
4	453023	3	Flat Washer, 1/4	
5	3006098	1	Bracket, Isolation Mount	
6	3006126	1	Bracket, Radiator Top	
7	3006127	1	Isolator	
8	3006135	2	Screw, M10-1.25 x 40mm Special	
9	3006233	2	Washer, Isolator	
10	3006132	2	Iso Mount Ring	
11	3006131	2	Iso Mount Bushing	
12	460335	2	Hair Pin	
13	400106	1	Screw, 1/4-20 x 5/8" Hex Head	
14	345666	1	Clamp	
15	5003557	1	Radiator	Includes Decals
16	1004491	1	Cover, Radiator	
17	3009766	2	Foam, Radiator, Sides	
18	3009767	2	Foam, Radiator Top and Bottom	
19	3009841	1	Bracket, Left Side Cover Mounting	
20	3009842	1	Bracket, Right Side Cover Mounting	
21	3009807	1	Retainer, Radiator Cover	
22	3009808	1	Support, Radiator Cover	
23	440038	2	Carriage Bolt, 1/4-20 x 1/2"	
24	445794	2	Nut, 1/4-20 Spiralock	
25	3004223	1	Spacer, Threaded	
26	3003446	2	Fastener	
27	446118	2	Lockwasher, #10	
28	445207	2	Speed Nut, #10-24	
29	403908	2	Screw, #10-24 x 3/8" Truss Head	
30	443106	2	Nut, 5/16-18 Hex	
31	446136	2	Lockwasher, 5/16 Heavy	
32	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
33	319914	2	Clamp, Hose	

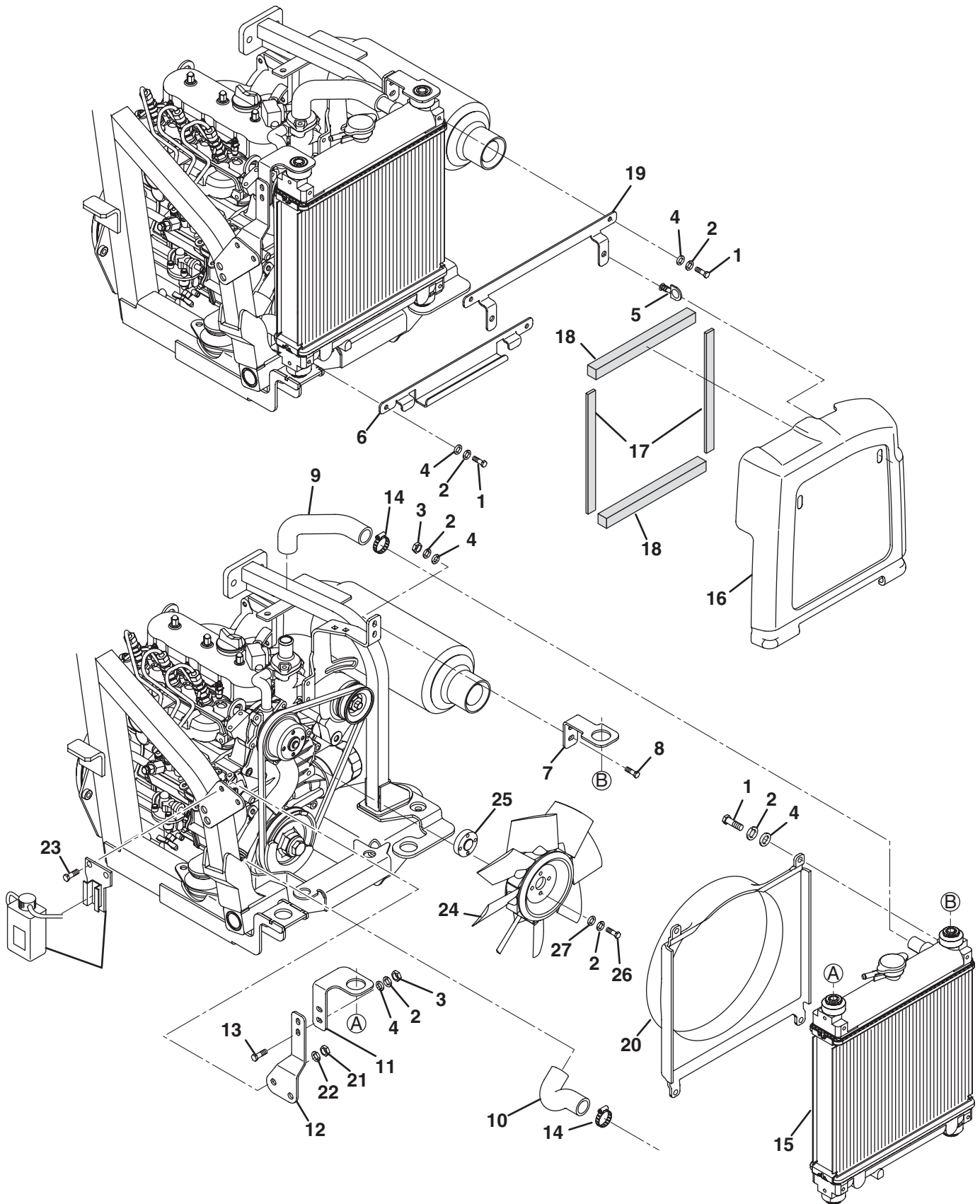
> Change from previous revision

# GREENS KING IV

Serial No. 62289-4130 and Up

## 22.2 Radiator

Diesel Units Only



# GREENS KING IV PLUS

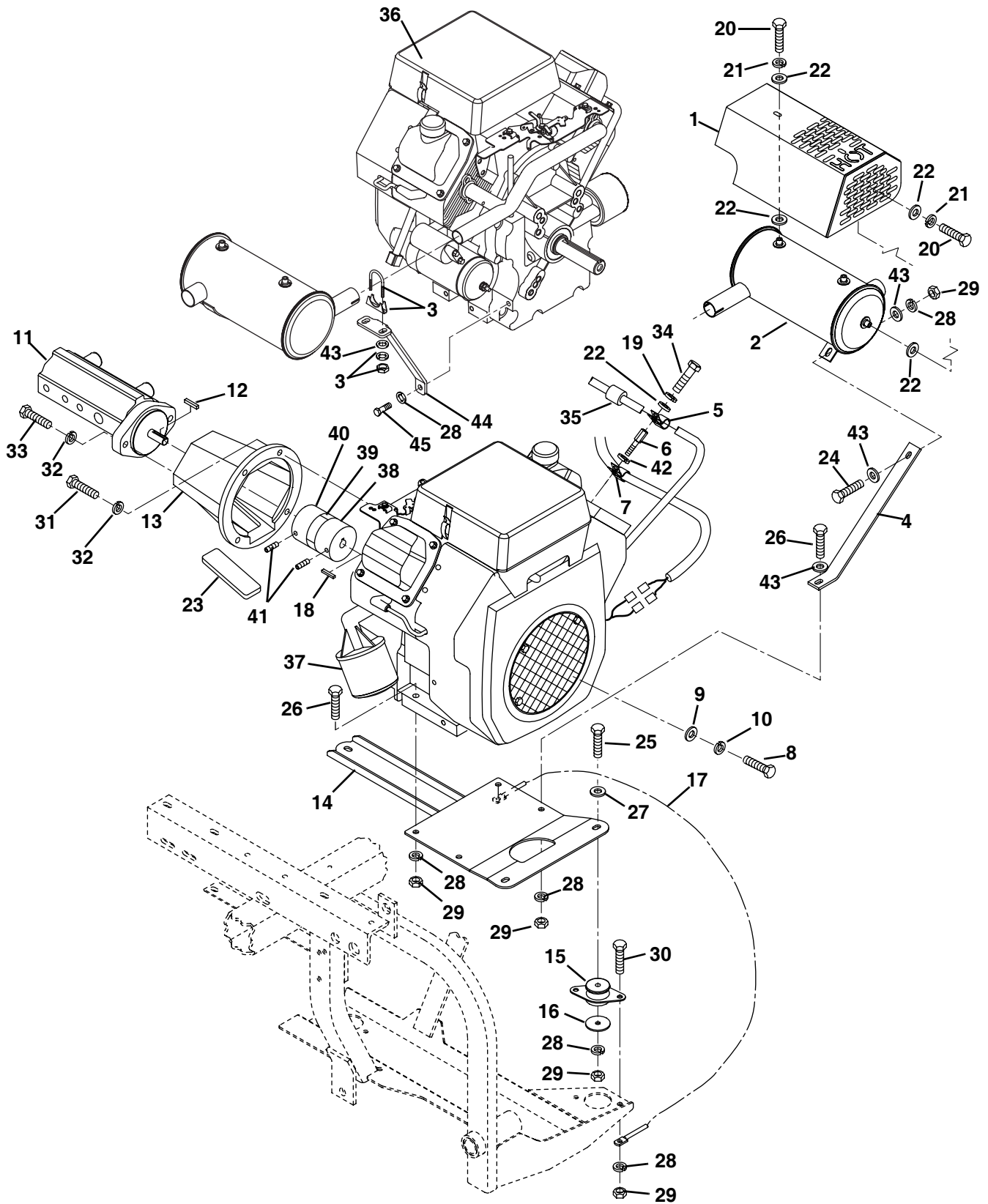
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	362535	8	Screw, M6-1 x 16mm Hex Head	
2	446130	16	Lockwasher, 1/4 Heavy	
3	443102	4	Nut, 1/4-20 Hex	
4	453023	12	Flat Washer, 1/4	
5	3003446	2	Fastener	
6	4140402	1	Support, Radiator Shroud	
7	4140396	1	Bracket, Top Radiator Mount	
8	400112	2	Screw, 1/4-20 x 1" Hex Head	
9	4142748	1	Upper Radiator Hose	
10	4142749	1	Lower Radiator Hose	
11	4142467	1	Bracket, Top Radiator Mount	
12	4140395	1	Bracket, Lower Radiator Mount	
13	400104	2	Screw, 1/4-20 x 1/2" Hex Head	
14	319914	4	Clamp, Hose	
15	4141036	1	Radiator	
16	4142829	1	Cover, Radiator	
17	3009766	2	Foam, Radiator, Sides	
18	3009767	2	Foam, Radiator Top and Bottom	
19	4140400	1	Bracket, Radiator Shroud Mount	
20	4141192	1	Shroud, Fan	
21	443106	2	Nut, 5/16-18 Hex	
22	446136	2	Lockwasher, 5/16 Heavy	
23	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
24	4141024	1	Fan	
25	4140509	1	Spacer, Fan	
26	450006	4	Screwm M6-1 x 55 mm Hex Head	
27	452004	4	Flat Washer, 1/4	

> Change from previous revision

# GREENS KING IV

## 23.1 Gas Engine and Pump

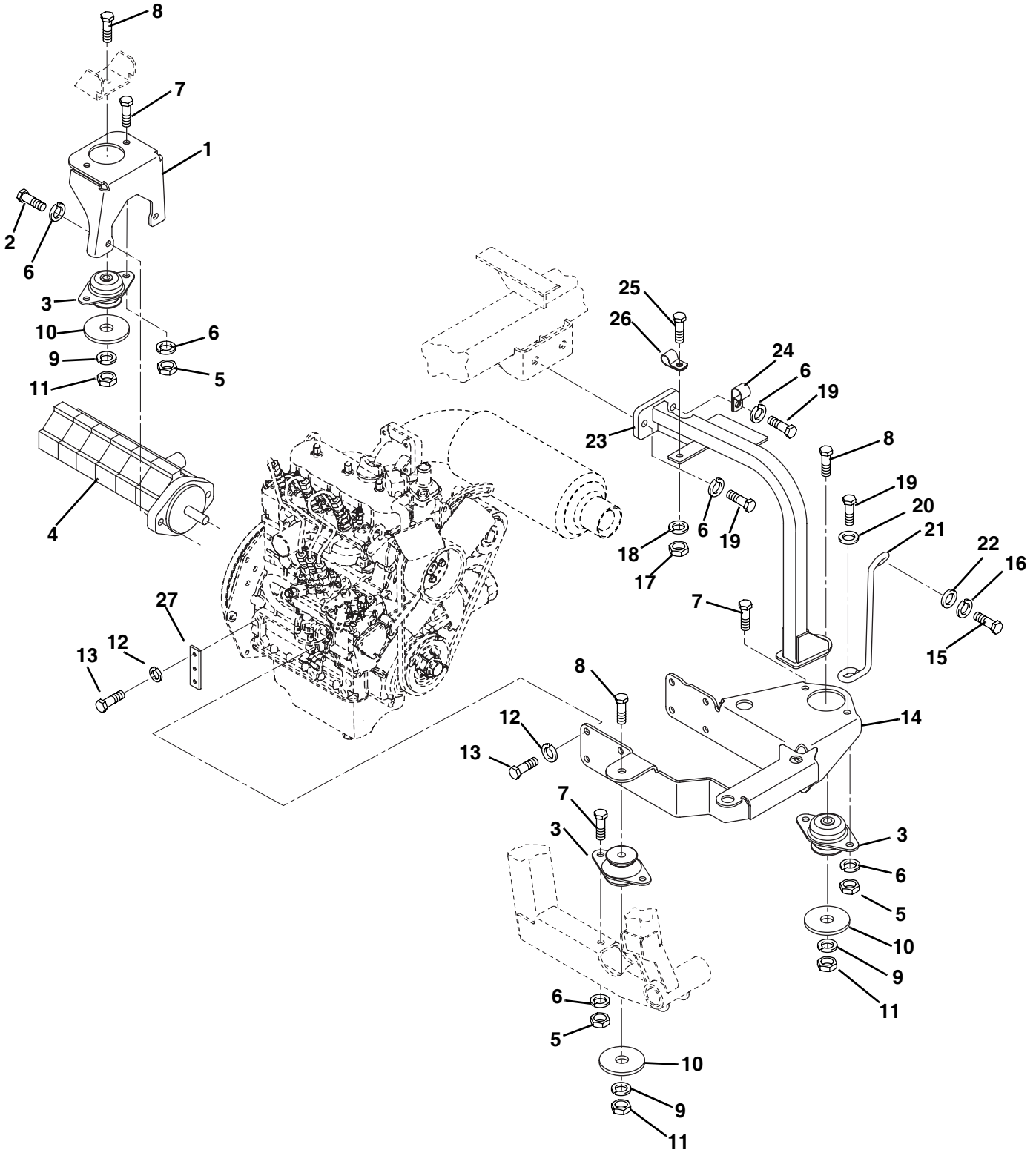
Serial No. 62287 All  
Serial No. 62288 All





# GREENS KING IV PLUS

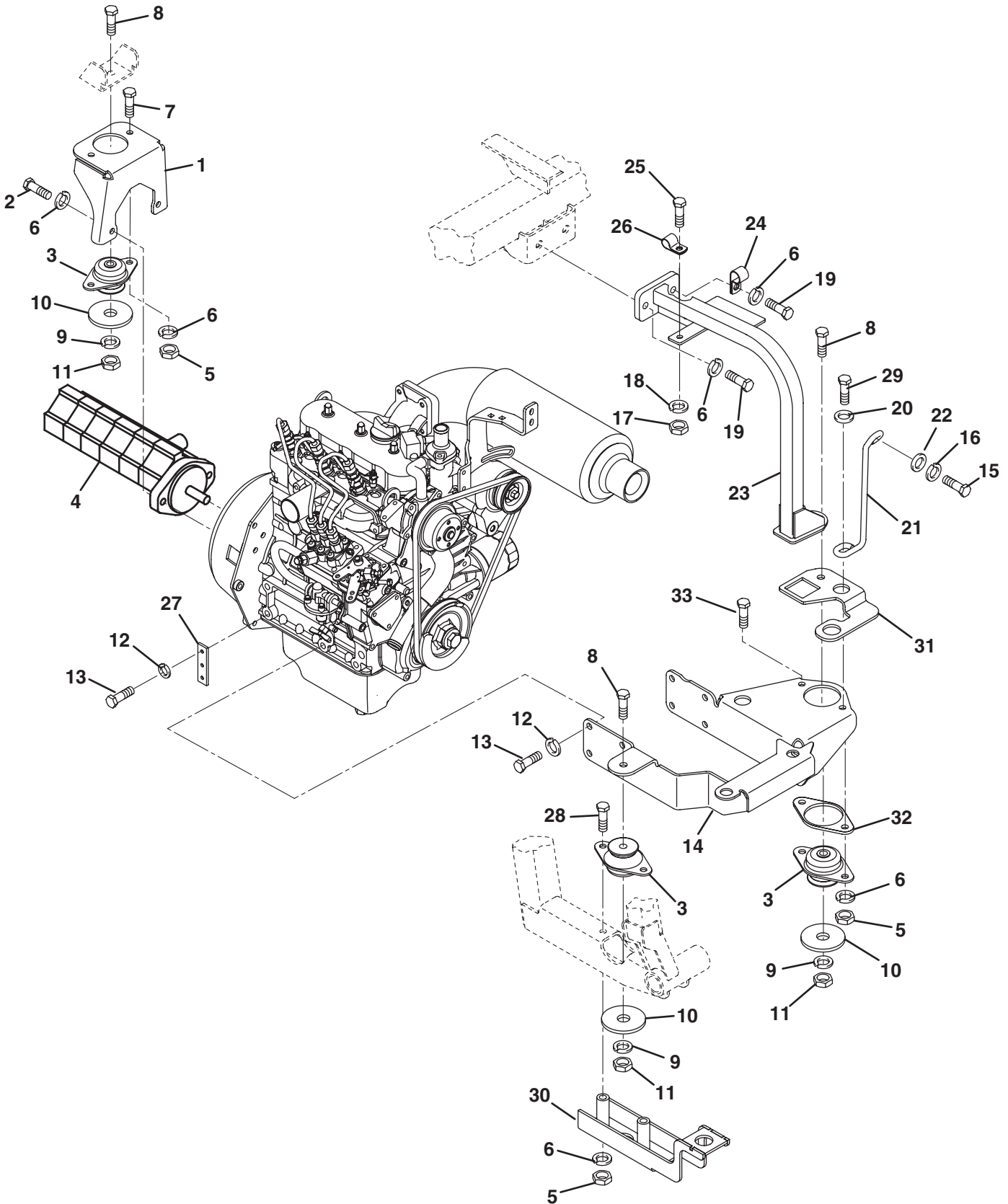
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001284	1	Heat Shield	Greens King IV Units, See 35.1 Greens King IV Plus Units, See 35.1
2	1001363	1	Muffler	
3	1001139	1	Muffler Clamp	
4	3001285	1	Muffler Support	
5	345666	1	Clamp, Fuel Line	
6	3008863	1	Stand-Off	
7	360970	1	Clamp, Wire Harness	
8	3002301	4	Screw, M5-35 Sock Button	
9	452002	4	Flatwasher, #10	
10	446118	4	Lockwasher, #10	
11	2809848	1	Pump, 4 Section	
11	2809849	1	Pump, 5 Section	
12	332588	1	• Key, 3/16 sq x 1-1/8"	
13	3009053	1	Pump Adapter	
14	1001231	1	Engine Mount	
15	367558	3	Engine Iso-mount	
16	367559	3	Washer, Isolator	
17	346006	1	Ground Cable	
18	2500476	1	Key, Engine Shaft	
19	446128	1	Lockwasher, 1/4	
20	400104	3	Screw, 1/4-20 x 1/2" Hex Head	
21	446130	3	Lockwasher, 1/4	
22	453023	7	Flat Washer, 1/4	
23	2501299	1	Pump Adapter Cover	
24	400186	1	Screw, 5/16-18 x 7/8" Hex Head	
25	400196	3	Screw, 5/16-18 x 2" Hex Head	
26	400194	4	Screw, 5/16-18 x 1-3/4" Hex Head	
27	452006	3	Flat Washer, 5/16	
28	446136	15	Lockwasher, 5/16	
29	443106	14	Nut, 5/16-18 Hex	
30	400184	6	Screw, 5/16-18 x 3/4" Hex Head	
31	400264	4	Screw, 3/8-16 x 1-1/4" Hex Head	
32	446142	6	Lockwasher, 3/8	
33	400266	2	Screw, 3/8-16 x 1-1/2" Hex Head	
34	362535	1	Screw, M6 x 16mm	
35	5000436	1	Fuel Filter	
36	5000441	1	Air Filter	
37	5000440	1	Oil Filter	
	1000469	1	Coupler	
38	5000188	1	• Jaw 1" (25.4mm)	
39	5000189	1	• Spider	
40	5000190	1	• Jaw 9/16" (14.43mm)	
41	415523	2	• Set Screw, 5/16-18 x 1/2"	
42	447010	1	External Tooth Lockwasher	
43	453009	5	Washer, 5/16 Flat	
44	4115303	1	Support, Muffler	
45	363586	1	Bolt	



# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	3009470	1	Bracket, Pump Mount	See 35.1	
2	400268	2	Screw, 3/8-16 x 1-3/4" Hex Head		
3	3009488	3	Isolation Mount		
4	2809849	1	Pump, 5 Section		
5	443110	6	Nut, 3/8-16 Hex		
6	446142	10	Lockwasher, 3/8 Heavy		
7	400260	5	Screw, 3/8-16 x 7/8" Hex Head		
8	400352	3	Screw, 7/16-14 x 2-3/4" Hex Head		
9	446148	3	Lockwasher, 7/16 Heavy		
10	3009886	3	Washer, Isolator		
11	443114	3	Nut, 7/16-14 Hex		
12	363485	10	Lockwasher, 3/8 Heavy		
13	366884	10	Screw, M10-1.25 x 20 mm Hex Head		
14	1004263	1	Mount, Engine		
15	3001337	1	Screw, M6-1 x 20 mm Hex Head		
16	446130	1	Lockwasher, 1/4 Heavy		
17	443106	1	Nut, 5/16-18 Hex		
18	446136	1	Lockwasher, 5/16 Heavy		
19	400266	3	Screw, 3/8-16 x 1-1/2" Hex Head		
20	452008	1	Flat Washer, 3/8		
21	3009497	1	Rod, Muffler Support		
22	452004	1	Flat Washer, 1/4		
23	5003558	1	Mount, Engine		Includes Decal
24	361064	1	Clamp		
25	400188	1	Screw, 5/16-18 x 1" Hex Head		
26	363514	1	Clamp		
27	363952	1	Plate		

> Change from previous revision

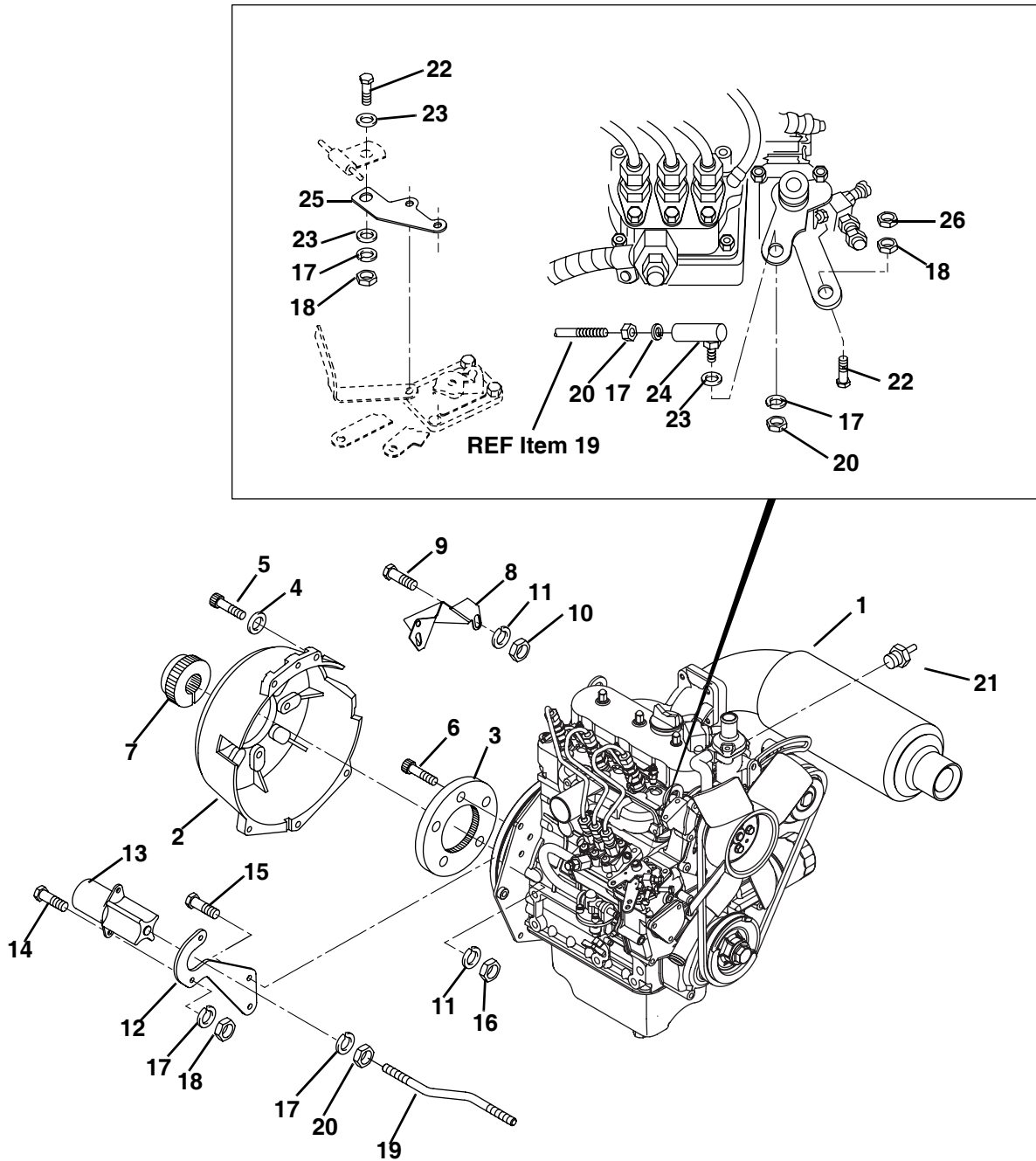


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	3009470	1	Bracket, Pump Mount	See 35.1	
2	400268	2	Screw, 3/8-16 x 1-3/4" Hex Head		
3	3009488	3	Isolation Mount		
4	2809849	1	Pump, 5 Section		
5	443110	6	Nut, 3/8-16 Hex		
6	446142	10	Lockwasher, 3/8 Heavy		
7	400260	2	Screw, 3/8-16 x 7/8" Hex Head		
8	400352	3	Screw, 7/16-14 x 2-3/4" Hex Head		
9	446148	3	Lockwasher, 7/16 Heavy		
10	3009886	3	Washer, Isolator		
11	443114	3	Nut, 7/16-14 Hex		
12	363485	10	Lockwasher, 3/8 Heavy		
13	366884	10	Screw, M10-1.25 x 20 mm Hex Head		
14	1004263	1	Mount, Engine		
15	3001337	1	Screw, M6-1 x 20 mm Hex Head		
16	446130	1	Lockwasher, 1/4 Heavy		
17	443106	1	Nut, 5/16-18 Hex		
18	446136	1	Lockwasher, 5/16 Heavy		
19	400266	2	Screw, 3/8-16 x 1-1/2" Hex Head		
20	452008	1	Flat Washer, 3/8		
21	3009497	1	Rod, Muffler Support		
22	452004	1	Flat Washer, 1/4		
23	5003558	1	Mount, Engine		Includes Decal
24	361064	1	Clamp		
25	400188	1	Screw, 5/16-18 x 1" Hex Head		
26	363514	1	Clamp		
27	363952	1	Plate		
28	401028	2	Screw, 3/8-16 x 3-1/4" Hex Head		
29	400264	1	Screw, 3/8-16 x 1-1/4" Hex Head		
30	4141872	1	Support, Left Radiator		
31	4141873	1	Support, Right Radiator		
32	4141866	1	Plate, Motor Mount Offset		
33	400262	1	Screw, 3/8-16 x 1" Hex Head		

> Change from previous revision

## 25.1 Diesel Engine

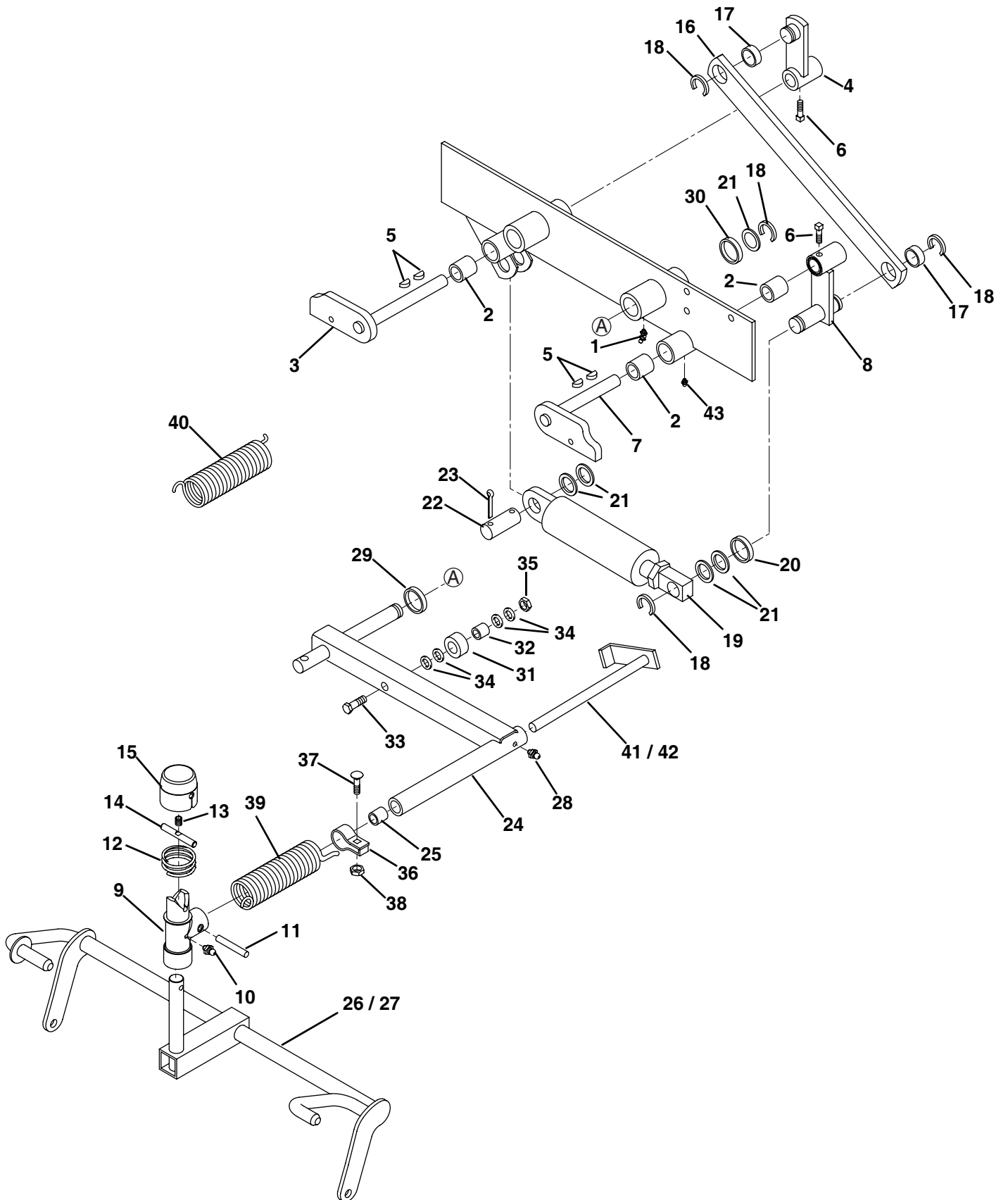


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004193	1	Engine	S/N 62289-1601 ~ 4129
1	4143408	1	Engine	S/N 62289-4130 and Up
	554011	1	• Engine Oil Filter	
2	1004511	1	Housing, Coupler	
3	●	1	• Flange, Flywheel	
4	●	4	• Flat Washer, M8	
5	●	4	• Screw, M8 x 30mm	
6	●	5	• Screw, M8 x 22mm	
7	●	1	Hub, Coupler	
8	3009932	1	Cover, Starter	
9	400228	2	Screw, 5/16-24 x 1-1/4" Hex Head	
10	443108	2	Nut, 5/16-24 Hex	
11	446134	2	Lockwasher, 5/16	
12	3009489	1	Bracket, Solenoid	
13	338289	1	Solenoid	
14	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
15	363586	2	Screw, M8-1.25 x 20mm Hex Head	
16	362539	2	Nut, M8-1.25 Hex	
17	446130	6	Lockwasher, 1/4-20 Heavy	
18	443102	4	Nut, 1/4-20 Hex	
19	3009516	1	Rod, Solenoid Actuating	
20	443104	2	Nut, 1/4-28 Hex	
21	364501	1	Temperature Sender	
22	400112	2	Screw, 1/4-20 x 1" Hex Head	
23	453023	3	Flat Washer, 1/4	
24	162478	1	Ball Joint	
25	3004151	1	Bracket, Throttle Cable Mounting	
26	444708	1	Locknut, 1/4-20 Center	
●	5003467	1	Coupler Service Kit	

> Change from previous revision

## 26.1 Front Lift Arms





# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	471227	3	Grease Fitting, 45°	Included in Frame Assembly
2	357999	4	Bushing, Front Lift Cam	
3	160034	1	Cam, Right Side Lift	
4	131498	1	Lever, Right Side Lift	
5	463017	4	Key, 3/16 x 3/4" Woodruff	
6	412017	2	Set Screw, 5/16-18 x 3/4" Square	
7	160033	1	Cam, Left Side Lift	
8	131675	1	Lever, Left Side Lift	
9	5002569	2	Housing, Swivel	
10	471214	2	• Grease Fitting	
11	461338	1	• Groove Pin, 5/16 x 2" Type "E"	
12	3004063	1	• Spring	
13	422511	1	• Set Screw, 5/16-18 x 3/8" Soc Hd	
14	3004975	1	• Pin	
15	3004870	1	• Cap, Swivel Housing	
16	353927	1	Bar, Lift Connecting	
17	350542	2	• Bushing, Lift Connecting Bar	
18	458433	5	Snap Ring, External	
19	4138520	1	Lift Cylinder, Front	
	4138591	1	• Seal Repair Kit	
20	367349	1	Washer, Thrust	
21	303629	AR	Washer	
22	345293	1	Pin, Cylinder Mounting	
23	460052	2	Cotter Pin, 3/16 x 1-1/2"	
24	503648	2	Front Lift Arm	
25	365001	4	• Bushing, Mower Pivot	
26	122786	1	Lift Yoke, Left Side	
27	122787	1	Lift Yoke, Right Side	
28	471216	2	Grease Fitting	
29	367349	2	Washer, Thrust	
30	345699	AR	Washer	
31	1004059	2	Lift Cam Roller	
32	3009234	2	Spacer, Lift Cam Roller	
33	400624	2	Screw, 5/8-11 x 3" Hex Head	
34	453020	4	Flat Washer, 5/8	
35	444752	2	Locknut, 5/8-11 Center	
36	365007	2	Clamp, Torsion Spring	
37	440086	2	Carriage Bolt, 5/16-18 x 1-1/2"	
38	444718	2	Locknut, 5/16-18 Center	
39	353935	1	Spring, Left Side Torsion	
40	353938	1	Spring, Right Side Torsion	
41	163431	1	Shaft Assembly, Front Left Mower	
42	163430	1	Shaft Assembly, Front Right Mower	
43	471221	1	Grease Fitting	

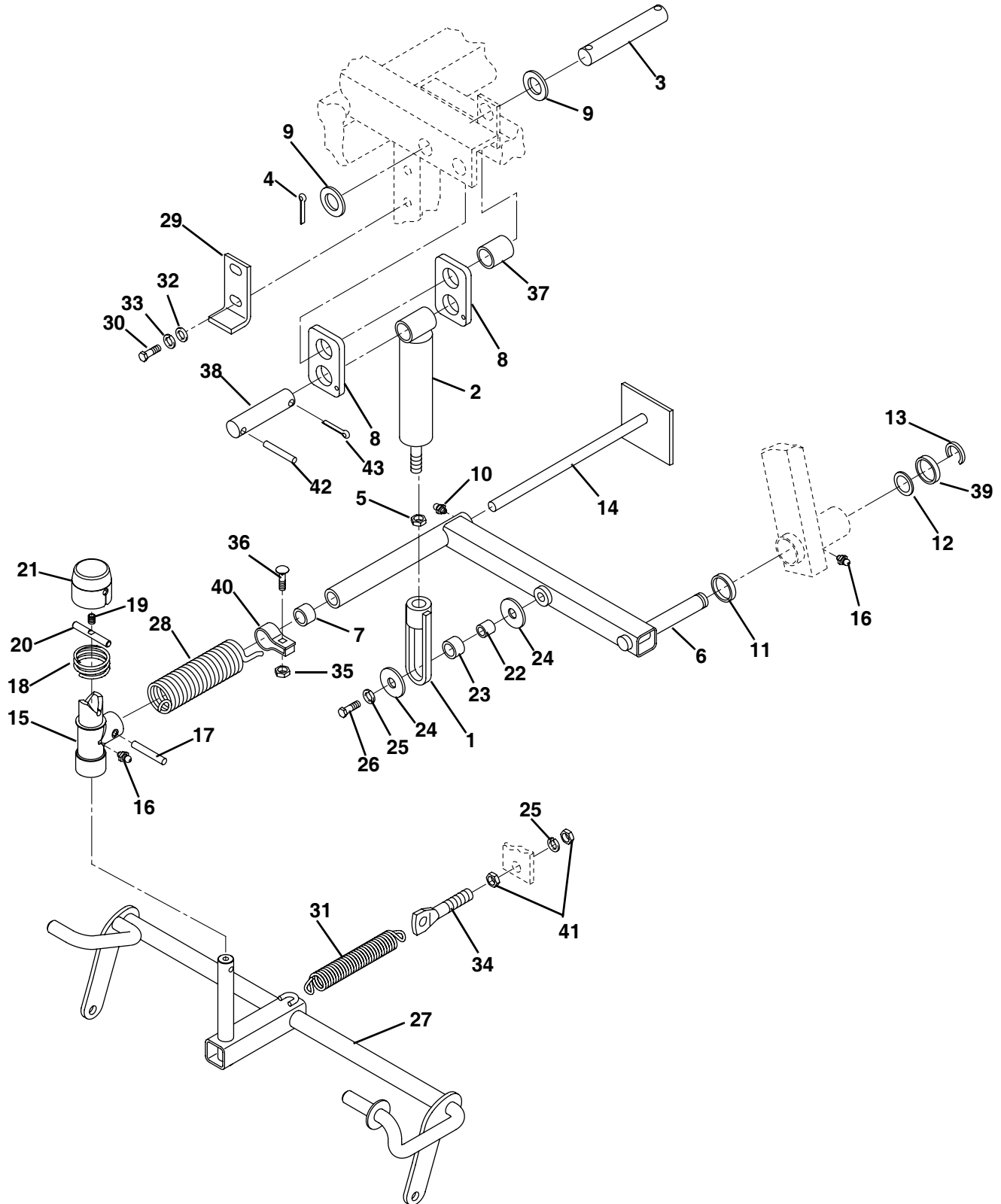
> Change from previous revision

# GREENS KING IVZ

## 27.1 Center Lift Arm

Gas Units

Serial No. 62287 All  
Serial No. 62288 All



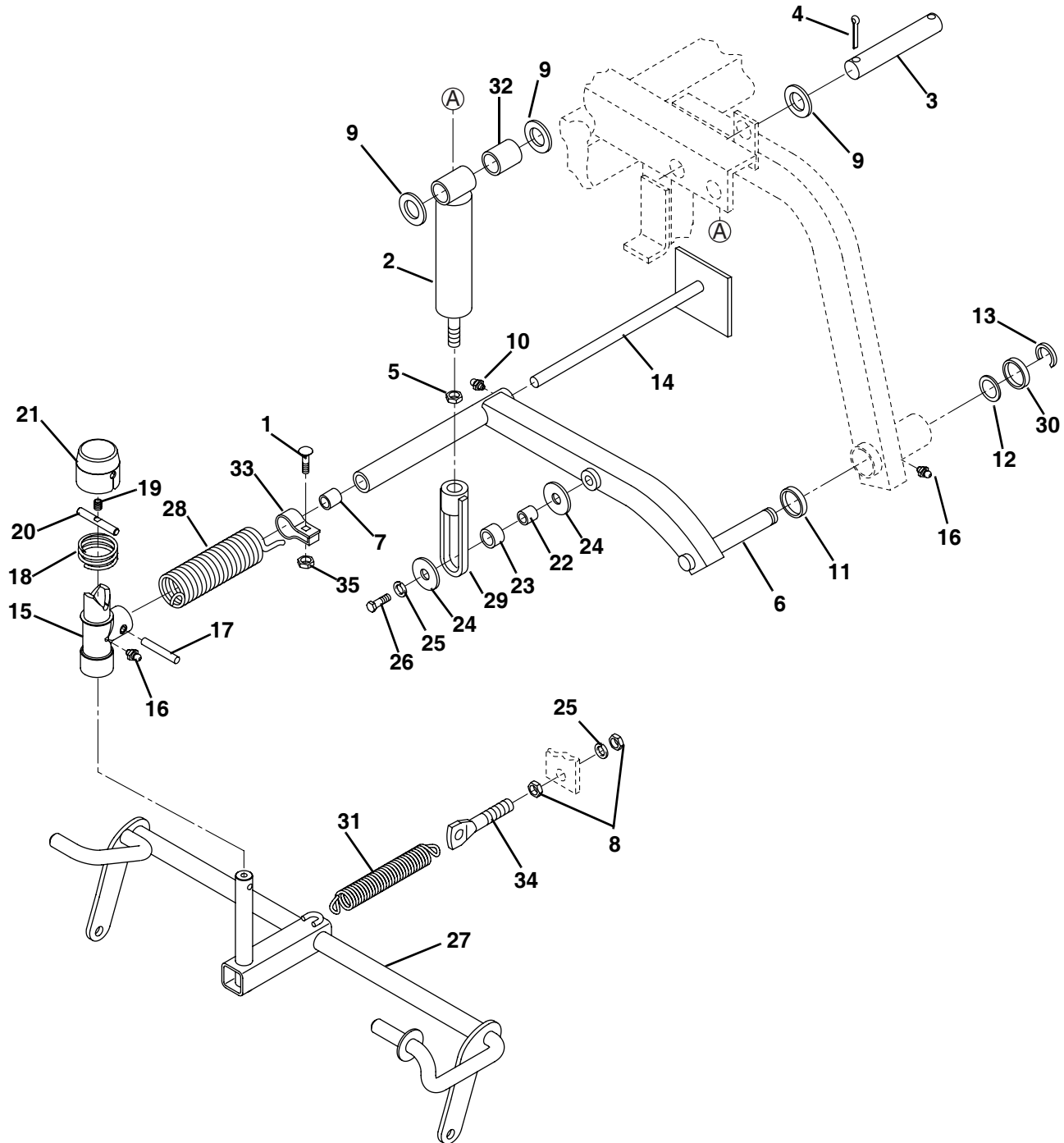
# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	241816	1	Lift Bracket	Gas Units
2	4138500	1	Lift Cylinder	
	4137139	1	• Seal Repair Kit	
3	354039	1	Pin, Cylinder Mounting	
4	367437	2	Cotter Pin, 9/64 x 1-1/4"	
5	443832	1	Nut, 3/4-16 Hex Jam	
6	503647	1	Center Mower Lift Arm	
7	365001	2	• Bushing, Mower Pivot	
8	2811638	2	Plate, Hanger	
9	349213	AR	Bushing, 3/4	
10	471216	1	Grease Fitting	
11	367349	1	Washer, Thrust	
12	303629	6	Washer, Center Lift Arm	
13	458433	1	Snap Ring, External	
14	2500167	1	Shaft Assembly, Center Lift Arm	
15	5002569	1	Housing, Swivel	
16	471214	2	• Grease Fitting	
17	461338	1	• Groove pin, 5/16 x 2" Type "E"	
18	3004063	1	• Spring	
19	422511	1	• Set Screw, 5/16-18 x 3/8" Soc Hd	
20	3004975	1	• Pin	
21	3004870	1	• Cap, Swivel Housing	
22	353906	1	Spacer, Cam Roller	
23	353907	1	Roller, Cam	
24	323943	2	Washer	
25	446154	1	Lockwasher, 1/2 Heavy	
26	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
27	122783	1	Center Lift Yoke	
28	365003	1	Spring, Torsion	
29	353956	1	Stop, Center Mower	
30	400200	2	Screw, 5/16-18 x 2-1/2" Hex Head	
31	313153	1	Spring, Center Mower Antisway	
32	453009	2	Flat Washer, 5/16	
33	446136	2	Lockwasher, 5/16 Heavy	
34	350745	1	Rod, Adjusting	
35	444718	1	Locknut, 5/16-18 Center	
36	440086	1	Carriage Bolt, 5/16-18 x 1-1/2"	
37	2811640	1	Spacer, Lift Cylinder	
38	2811639	1	Pin, Straight	
39	345699	AR	Washer	
40	365007	1	Clamp, Torsion Spring	
41	443818	2	Nut, 1/2-13 Jam	
42	461409	1	Roll Pin, 3/16 x 1-3/4"	
43	460032	2	Cotter Pin, 1/8 x 1-1/2"	

> Change from previous revision

## 28.1 Center Lift Arm

Diesel Units

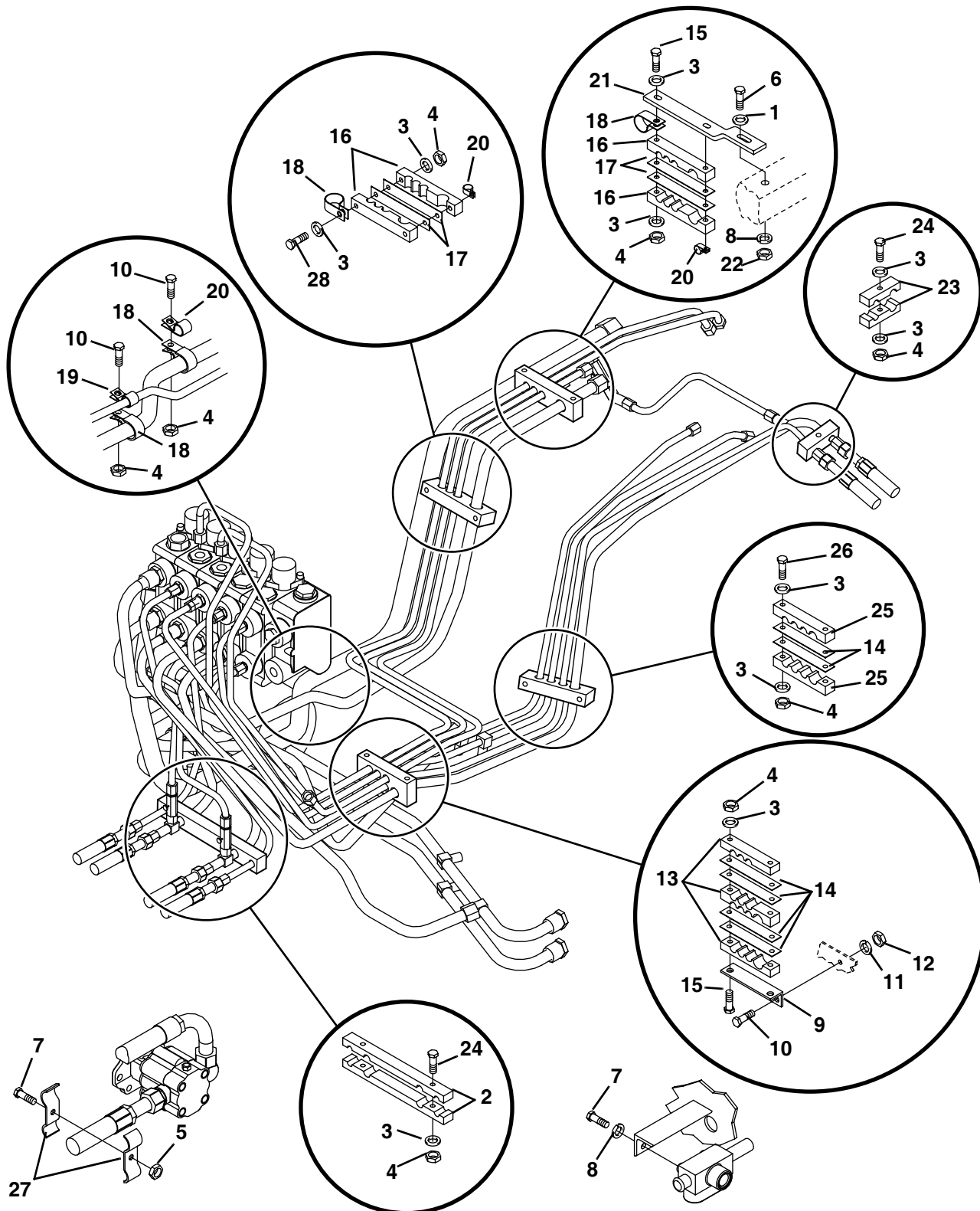


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	440086	1	Carriage Bolt, 5/16-18 x 1-1/2"	
2	4138500	1	Lift Cylinder	
	4137139	1	• Seal Repair Kit	
3	354039	1	Pin, Cylinder Mounting	
4	367437	2	Cotter Pin, 9/64 x 1-1/4"	
5	443832	1	Nut, 3/4-16 Hex Jam	
6	503644	1	Center Mower Lift Arm	
7	365001	2	• Bushing, Mower Pivot	
8	443818	2	Nut, 1/2-13 Jam	
9	349213	AR	Bushing, 3/4	
10	471216	1	Grease Fitting	
11	367349	1	Washer, Thrust	
12	303629	6	Washer, Center Lift Arm	
13	458433	1	Snap Ring, External	
14	2500167	1	Shaft Assembly, Center Lift Arm	
15	5002569	1	Housing, Swivel	
16	471214	1	• Grease Fitting	
17	461338	1	• Groove pin, 5/16 x 2" Type "E"	
18	3004063	1	• Spring	
19	422511	1	• Set Screw, 5/16-18 x 3/8" Soc Hd	
20	3004975	1	• Pin	
21	3004870	1	• Cap, Swivel Housing	
22	353906	1	Spacer, Cam Roller	
23	353907	1	Roller, Cam	
24	323943	2	Washer	
25	446154	2	Lockwasher, 1/2 Heavy	
26	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
27	122783	1	Center Lift Yoke	
28	365003	1	Spring, Torsion	
29	241816	1	Lift Bracket	
30	345699	AR	Washer	
31	313153	1	Spring, Center Mower Antisway	
32	366128	1	Spacer, Lift Cylinder	
33	365007	1	Clamp, Torsion Spring	
34	350745	1	Rod, Adjusting	
35	444718	1	Locknut, 5/16-18 Center	

> Change from previous revision

## 29.1 Clamps

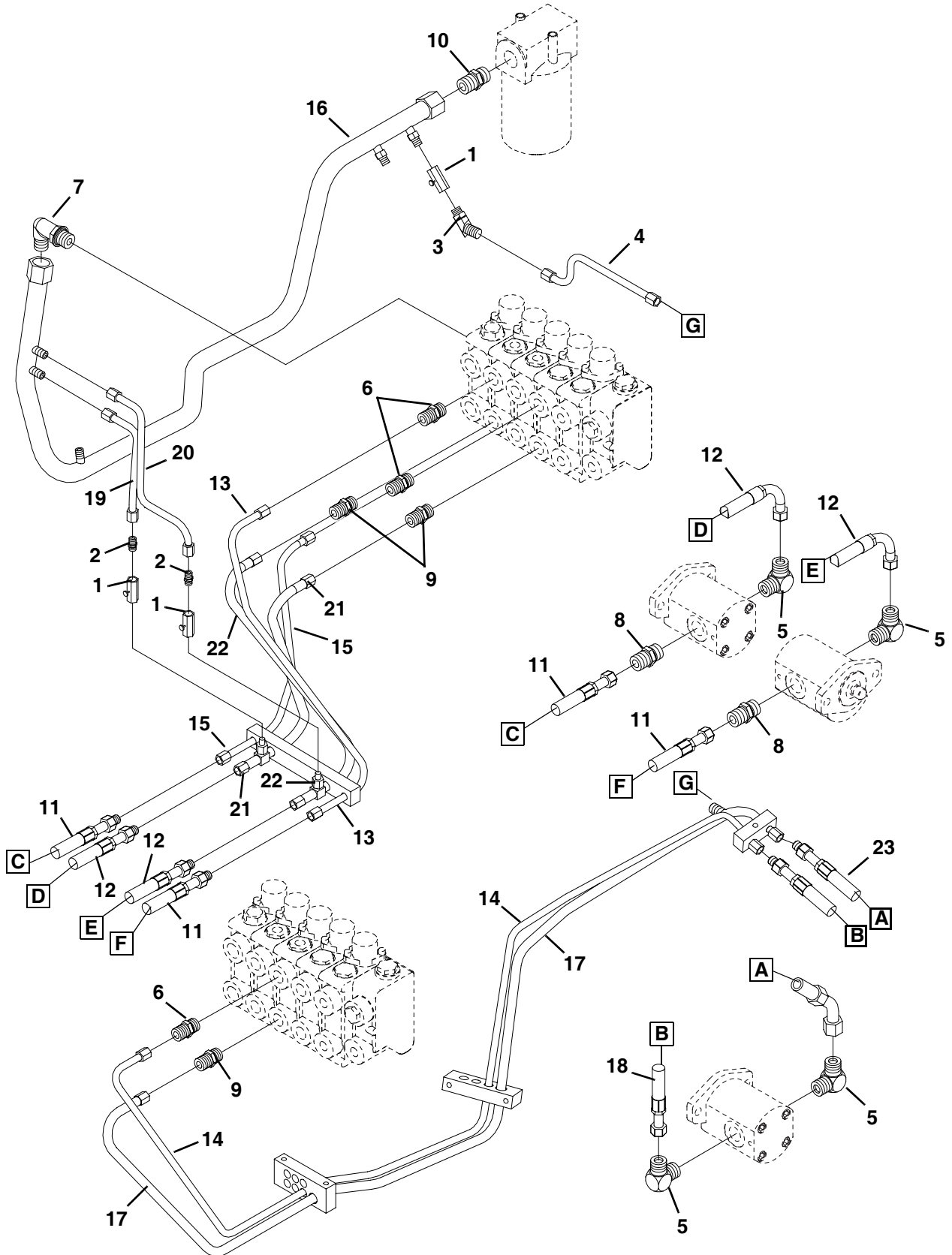


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	453009	1	Flat Washer, 5/16	
2	338270	1	Clamp, Reel Motor Tubes	
3	452004	18	Flat Washer, 1/4	
4	444708	13	Nut, 1/4-20 Gripco Center Lock	
5	444718	2	Nut, 5/16-18 Center Lock	
6	400204	1	Screw, 5/16-18 x 3-1/2" Hex Head	
7	400182	4	Screw, 5/16 x 5/8" Hex Head	
8	446136	3	Lockwasher, 5/16 Hvy	
9	361105	1	Bracket, Tube Support	
10	400108	4	Screw, 1/4-20 x 3/4" Hex Head	
11	446130	2	Lockwasher, 1/4 Hvy	
12	443102	2	Nut, 1/4-20 Hex	
13	361137	1	Clamp, Front Tubes	
14	357854	6	Liner, Tube Clamp	
15	400122	4	Screw, 1/4-20 x 1-1/4" Hex Head	
16	354082	2	Clamp, Tube	
17	354096	4	Liner, Tube Clamp	
18	354080	4	Clamp, 1" Dia.	
19	360970	1	Clamp, 5/8" Dia.	
20	361064	3	Clamp, 5/8" Dia.	Gas Units
20	345671	3	Clamp, 3/4" Dia	Diesel Units
21	357608	1	Strap, Tube Support	
22	443106	1	Nut, 5/16-18 Hex	
23	354088	1	Clamp, Tube	
24	400116	3	Screw, 1/4-20 x 1-1/2" Hex Head	
25	337287	1	Clamp, Tube	
26	400118	2	Screw, 1/4-20 x 1-3/4" Hex Head	
27	361154	4	Clamp, Tube	
28	400120	2	Screw, 1/4-20 x 2" Hex Head	

> Change from previous revision

## 30.1 Reel Hydraulics



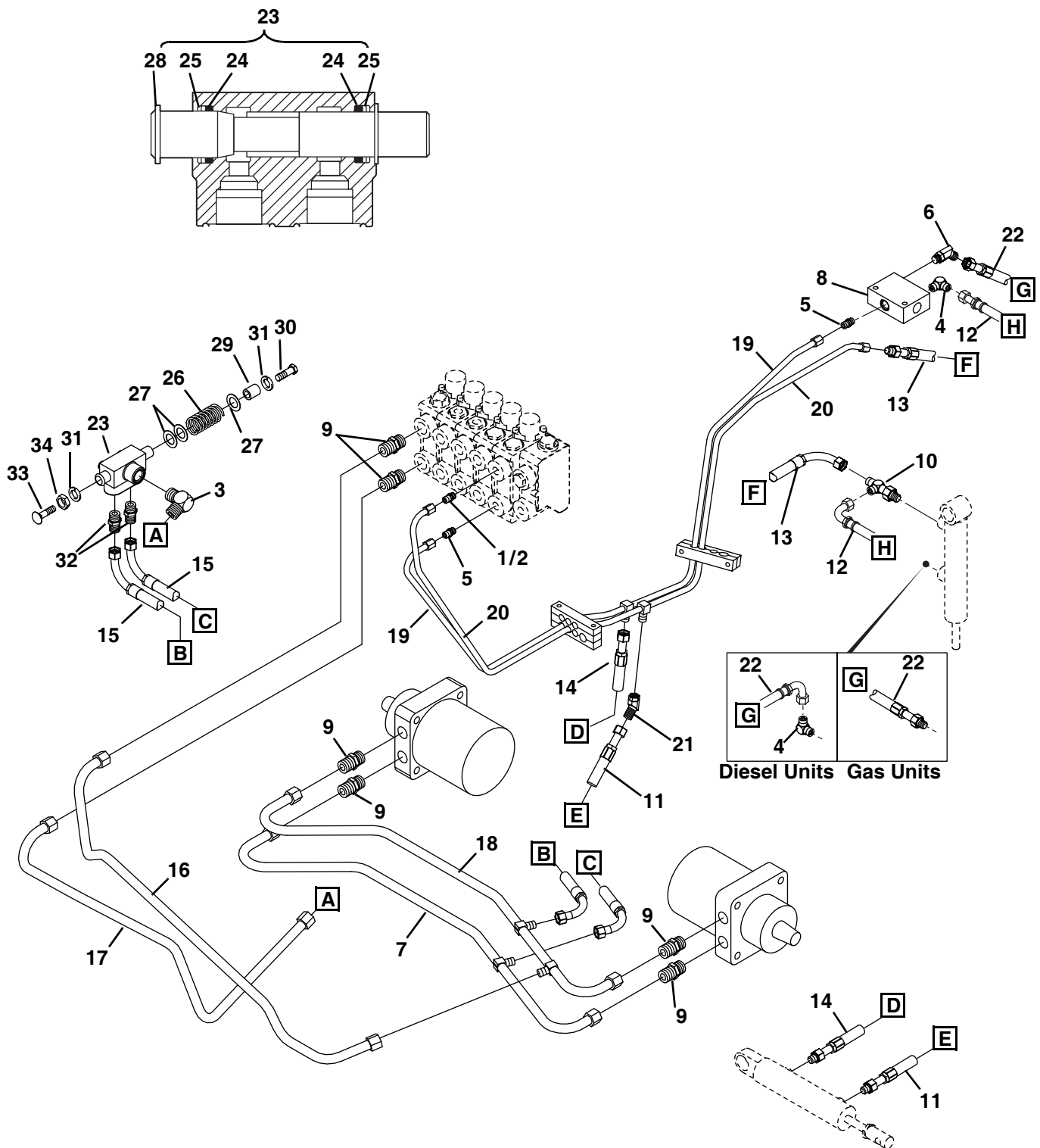


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	162561	3	Needle Valve	
2	351109	2	Adapter, Straight	
3	351399	1	Adapter, 45°	
4	131145	1	Tube, Center Mower Backlap	
5	360039	4	Adapter, 90°	
6	342199	3	Adapter, Straight	
7	354064	1	Adapter, 90°	
8	361165	2	Adapter, Straight	
9	351108	3	Adapter, Straight	
10	354067	1	Adapter, Straight	
11	1000223	2	Hose, Reel Motor Pressure Lines	
12	1000224	2	Hose, Reel Motor Return Lines	
13	2500084	1	Tube, LH Reel Pressure	
14	1000536	1	Tube, Center Reel Pressure	
15	2500085	1	Tube, RH Reel Pressure	
16	116553	1	Tube, Valve to Filter	Greens King IV Units
16	1001574	1	Tube, Valve to Filter	Greens King IV Plus Units
17	1000537	1	Tube, Center Reel Return	
18	1001011	1	Hose, Center Mower Pressure	
19	131146	1	Tube, RH Mower Backlap	
20	2500087	1	Tube, LH Mower Backlap	
21	2500083	1	Tube, RH Reel Return	
22	2500082	1	Tube, LH Reel Return	
23	1001012	1	Hose, Center Reel Return	
24	473137	1	Cable Tie (Not Shown)	Used on Center Reel Motor Hoses

> Change from previous revision

## 31.1 Traction and Lift Hydraulics

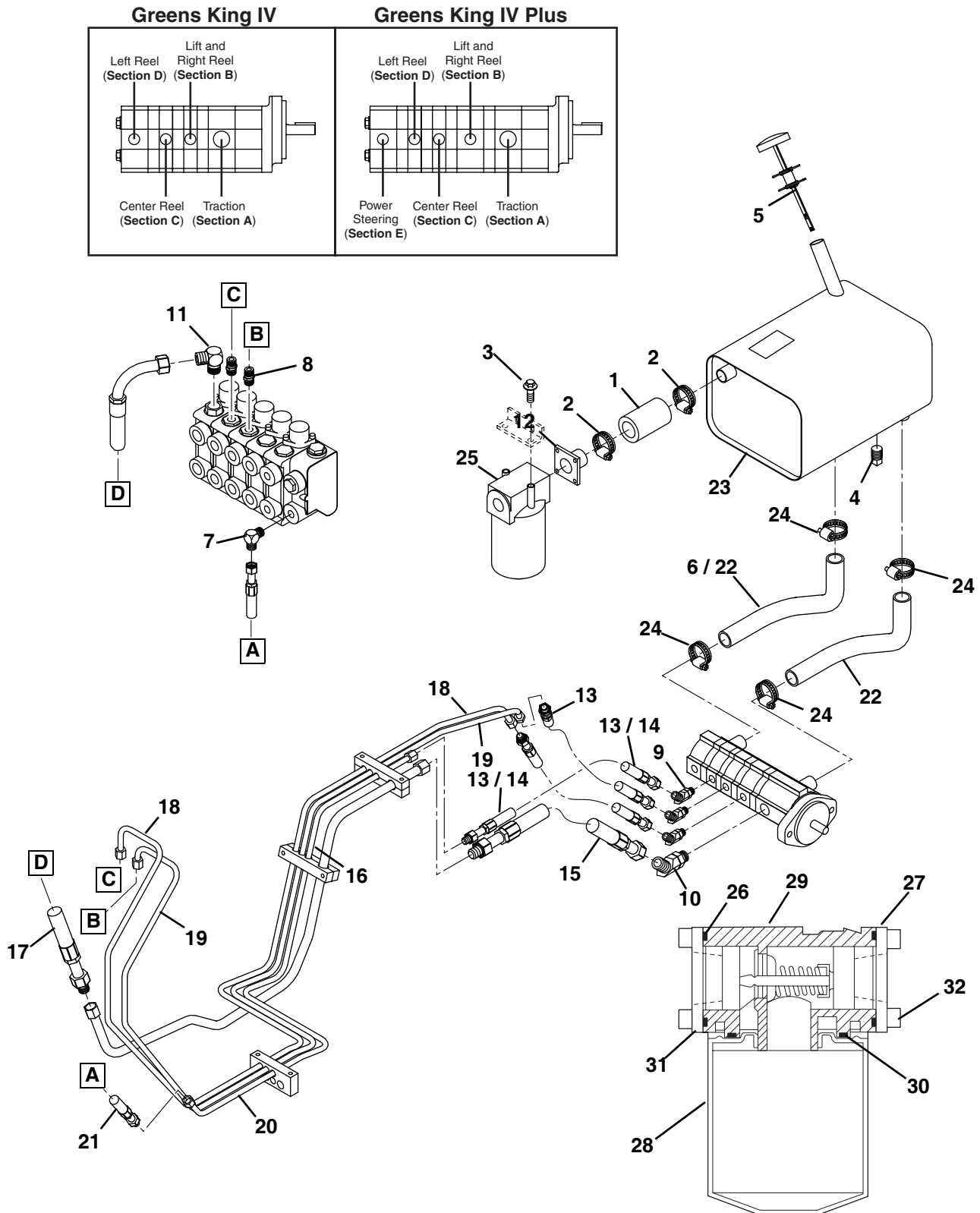


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	357921	1	Adapter, Straight w/.059 Orifice	Standard
2	554363	1	Adapter, Straight w/.052 Orifice	"Soft Drop"
3	361474	1	Adapter, 90°	
4	351107	1	Adapter, 90°	Gas Units
4	351107	2	Adapter, 90°	Diesel Units
5	351109	2	Adapter, Straight	
6	351399	1	Adapter, 45°	
7	122506	1	Tube, Lower Traction Motor	
8	4135654	1	Valve, Load Control	
	4135675	1	• Cartridge, Load Control	
	4125568	1	• • Seal Kit	
9	350947	6	Adapter, Straight	
10	4136448	1	Adapter, Tee	
11	160041	1	Hose, Tee to Front Cylinder	
12	4124636	1	Hose, Load Valve to Tee	
13	4124635	1	Hose, Tube to Rear Cylinder Tee	
14	131451	1	Hose to Front Cylinder	
15	131149	2	Hose, Metering Valve to Tube	
16	116543	1	Tube, Valve to Motor Tube	
17	116714	1	Tube, Valve to Metering Valve	
18	2500086	1	Tube, Upper Traction Motor	
19	116551	1	Tube, Valve to Sequence Valve	
20	116550	1	Tube, Valve to Rear Cylinder	
21	359068	1	Adapter, 45°	
22	160042	1	Hose, Load Valve to Rear Cylinder	Gas Units
22	2811715	1	Hose, Load Valve to Rear Cylinder	Diesel Units
23	503128	1	Valve, Traction Metering	
	503127	—	• Seal Repair Kit	
24	—	2	• • Ring, Backup	
25	—	2	• • Seal, O-Ring	
26	363684	1	• Spring	
27	306828	3	• Washer, 0.03 Thick	
28	546229	2	• Snap Ring	
29	361139	1	Spacer	
30	400268	1	Screw, 3/8-16 x 1-3/4" Hex Hd	
31	446142	2	Lockwasher, 3/8 Hvy	
32	351108	2	Adapter, Straight	
33	440120	1	Carriage Bolt, 3/8-16 x 1-1/4"	
34	443810	1	Nut, 3/8-16 Hex	

> Change from previous revision

## 32.1 Pump Hydraulics

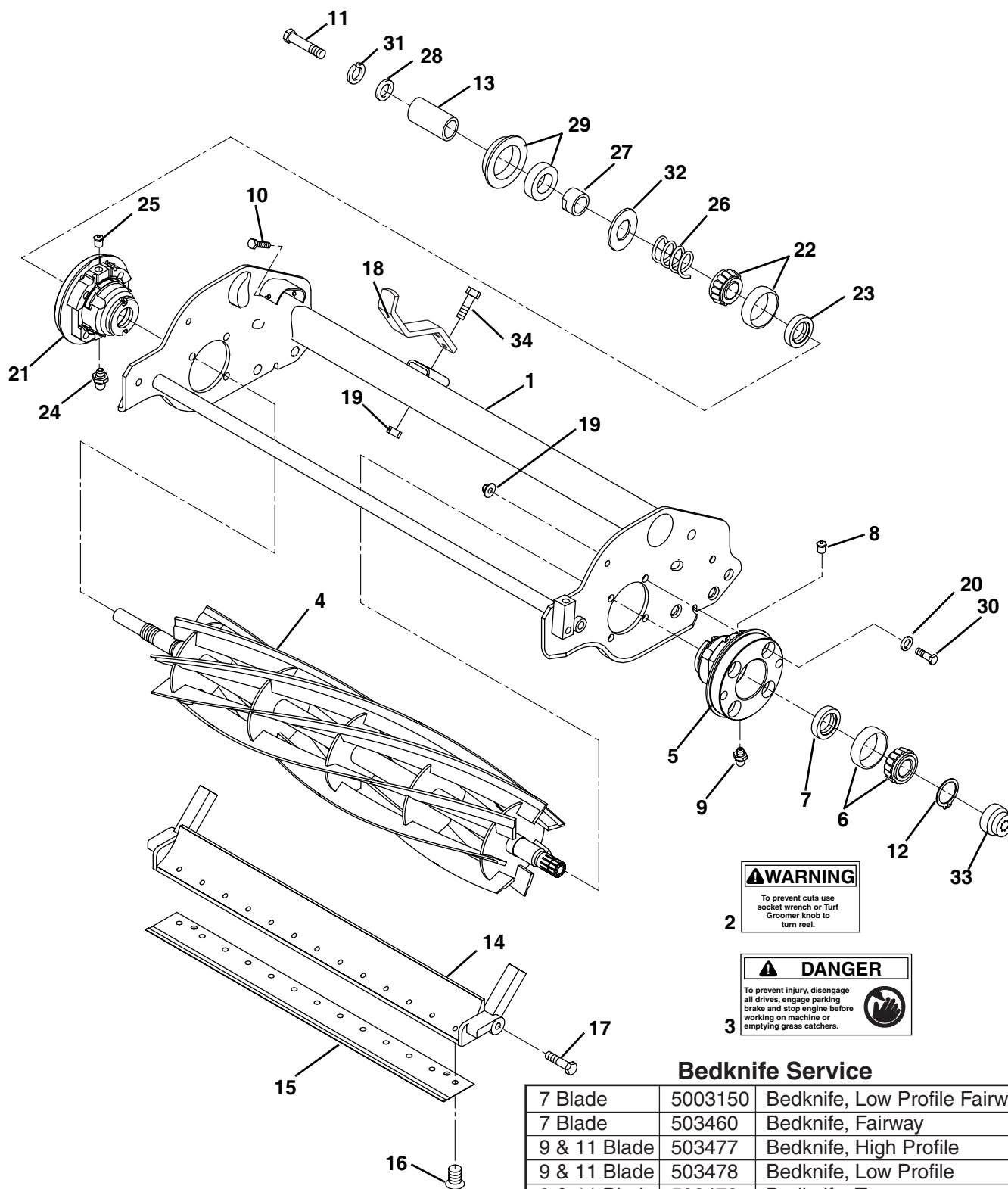


# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	366681	1	Hose	
2	326112	2	Clamp	
3	403756	2	Screw, 3/8-16 x 3/4" Whiz-Lock	
4	472207	1	Plug, 1/2 Sq. Head Pipe	
5	4130472	1	Filler Cap/Dipstick	
6	3003105	1	Hose, Tank To Pump Outside	Greens King IV Plus Gas Units
7	351107	1	Adapter, 90°	
8	351109	2	Adapter, Straight	
9	351399	3	Adapter, 45°	
10	354066	1	Adapter, 45°	
11	354065	1	Adapter, 90°	
12	162725	1	Tube and Flange	
13	2811644	2	Hose, Pump Sections B & C to Tube	Greens King IV Gas Units
13	2811644	2	Hose, Pump Sections C & D to Tube	Greens King IV Plus Units
14	2811643	1	Hose, Pump Section B to Tube	Greens King IV Gas Units
14	2811643	1	Hose, Pump Section D to Tube	Greens King IV Plus Units
15	131804	1	Hose, Pump Section A to Tube	
16	116545	1	Tube, Pump to Valve	
17	131153	1	Hose, Tube to Valve	
18	116547	1	Tube, Pump to Valve	
19	116548	1	Tube, Pump to Valve	
20	2500665	1	Tube, Pump to Valve	
21	2500666	1	Hose, Valve Inlet	
22	3001393	2	Hose, Tank To Pump	Greens King IV Gas Units
22	3001393	1	Hose, Tank to Pump Inside	Greens King IV Plus Gas Units
22	338291	2	Hose, Tank to Pump	Greens King IV Plus Diesel Units
23	123077	1	Tank, Hydraulic	
24	319914	4	Clamp, Hose	
25	-	1	Hydraulic Oil Filter	
26	551137	2	• Adapter, Seal	
27	551138	1	• Adapter, 3/4-14 NPTF	Outlet
28	558022	1	• Cartridge, Element	
29	558023	1	• Head Assembly	
30	555395	1	• Cartridge, Seal	
31	551139	1	• Adapter, 1"-11/12 NPTF	Inlet
32	551140	8	• Adapter, Screw	

> Change from previous revision

## 33.1 Reel Cutting Assembly



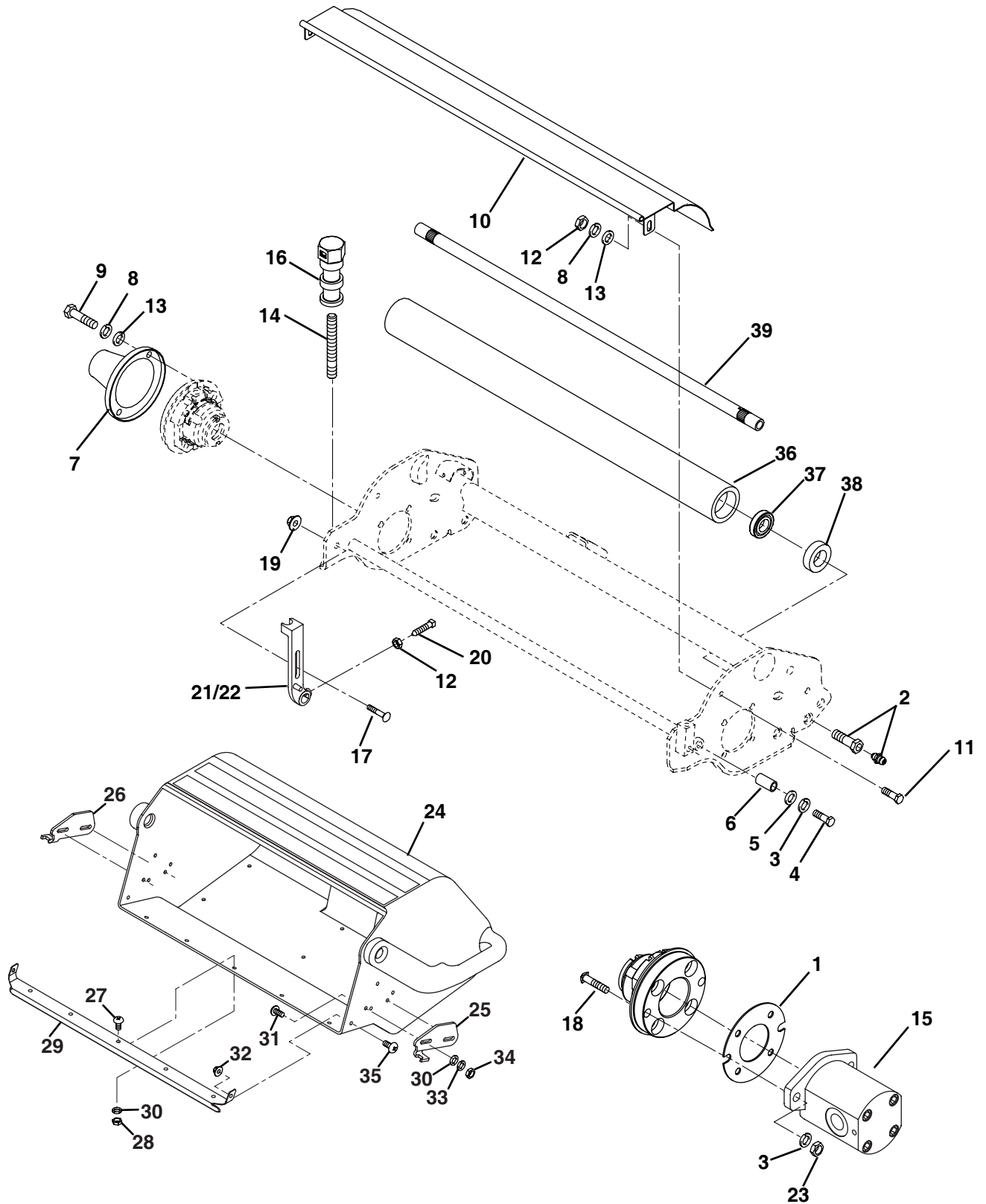
# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002577	1	Frame, Reel	
2	1000997	1	Decal, Warning	
3	361877	2	Decal, Danger	
4	5003054	1	7 Blade Reel, Right Hand (Shown)	
4	5003053	1	7 Blade Reel, Left Hand (Opposite)	
4	5001100	1	9 Blade Reel, Right Hand (Shown)	
4	5001099	1	9 Blade Reel, Left Hand (Opposite)	
4	5001102	1	11 Blade Reel, Right Hand (Shown)	
4	5001101	1	11 Blade Reel, Left Hand (Opposite)	
5	1002256	1	Bearing Housing	
6	500534	1	• Bearing, Cup and Cone	
7	336962	1	• Seal, Grease	
8	471240	1	• Vent Fitting	
9	471214	1	• Grease Fitting	
10	412503	4	Screw, 3/8-16 x 1-1/4" Square Head	
11	400294	1	Screw, 3/8-24 x 1" Hex Head	
12	458013	1	Snap Ring	
13	367164	1	Spacer	
14	5000415	1	Bedknife Backing	
15	●		Bedknife	
16	3009138	13	Screw, 1/4-20 x 1/2" Flat Head	
17	315298	2	Bolt, 7/16 x 3/4"	
18	3010293	1	Mower Stop	
19	445795	10	Nut, 5/16-18 Spirallock Flange	
20	453009	4	Flat Washer, 5/16	
21	1000480	1	Bearing Housing	
	2000060	1	• Housing	
22	500534	1	• Bearing, Cup and Cone	
23	336962	1	• Seal, Grease	
24	471214	1	• Grease Fitting	
25	471240	1	• Vent Fitting	
26	5002151	1	Spring, Compression	
27	364900	1	Nut, Reel	
28	453011	1	Flat Washer, 3/8	
29	163892	1	Seal	
30	400192	8	Screw, 5/16-18 x 1-1/2" Hex Head	
31	446142	4	Lockwasher, 3/8 Heavy	
32	304745	1	Washer	
33	337370	1	Coupler	
34	400184	2	Screw, 5/16-18 x 3/4" Hex Head	

● For Service, See Chart

> Change from previous revision

## 34.1 Reel Roller, Shields and Catcher





# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	364901	1	Gasket, Motor	
2	1002224	2	Zerk Bolt	
3	446142	4	Lockwasher, 3/8 Heavy	
4	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
5	453011	2	Flat Washer, 3/8	
6	345510	2	Spacer	
7	557775	1	Cover, Shaft	
8	446130	4	Lockwasher, 1/4 Heavy	
9	400104	2	Screw, 1/4-20 x 1/2" Hex Head	
10	2810043	1	Shield, Reel	
11	403782	2	Screw, 1/4-20 x 3/4" Truss Head	
12	443102	4	Nut, 1/4-20 Hex	
13	453023	4	Washer, 1/4	
14	343616	2	Stud	
15	4134233	1	Motor	
	4130991	1	• Seal Kit	
16	3005692	2	Knob, Front Roller Adjusting	
17	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
18	441814	2	Bolt, 3/8-16 x 1-3/4" Square Head	
19	445795	2	Nut, 5/16-18 Spiralock Flange	
20	352737	2	Screw, 1/4-20 x 7/8" Square Head	
21	3008438	1	Roller Bracket, Right Side	
22	3008439	1	Roller Bracket, Left Side	
23	443110	2	Nut, 3/8-16 Hex	
24	67891	1	Grass Catcher Assembly	
25	4129652	1	• Bracket, Stop	
26	4129653	1	• Bracket, Stop	
27	404016	5	• Screw, 1/4-20 x 5/8" Truss Head	
28	445770	5	• Nut, 1/4-20 Hex Nylon Insert	
29	4130110	1	• Bracket, Stop	
30	453023	9	• Flat Washer, 1/4	
31	404018	4	• Screw, 1/4-20 x 3/4" Truss Head	
32	445784	2	• Nut, 1/4-20 Hex Whizlock	
33	446130	4	• Lockwasher, 1/4 Heavy	
34	443102	4	• Nut, 1/4-20 Hex	
35	404014	2	• Screw, 1/4-20 x 1/2" Truss Head	
	1004990	1	Rear Roller	
36	N/S	1	• Roller Tube	
37	3010712	2	• Bearing, Roller	
38	3010286	2	• Seal, Roller	
39	3010422	1	• Roller Shaft	
40	158568	1	Bedknife Adjusting Gauge	Not Shown
41	351003	2	• Screw, Adjusting Gauge	Not Shown
42	445604	2	• Nut, #10-24 Wing	Not Shown

Quantity Listed is for One Mower

> Change from previous revision

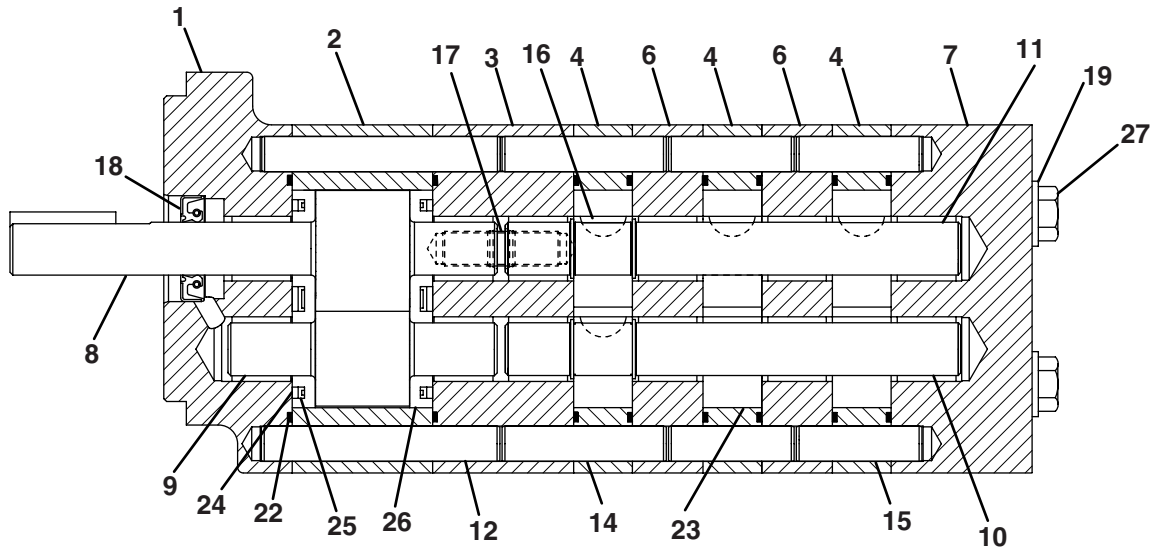
# GREENS KING IV

Serial No. All

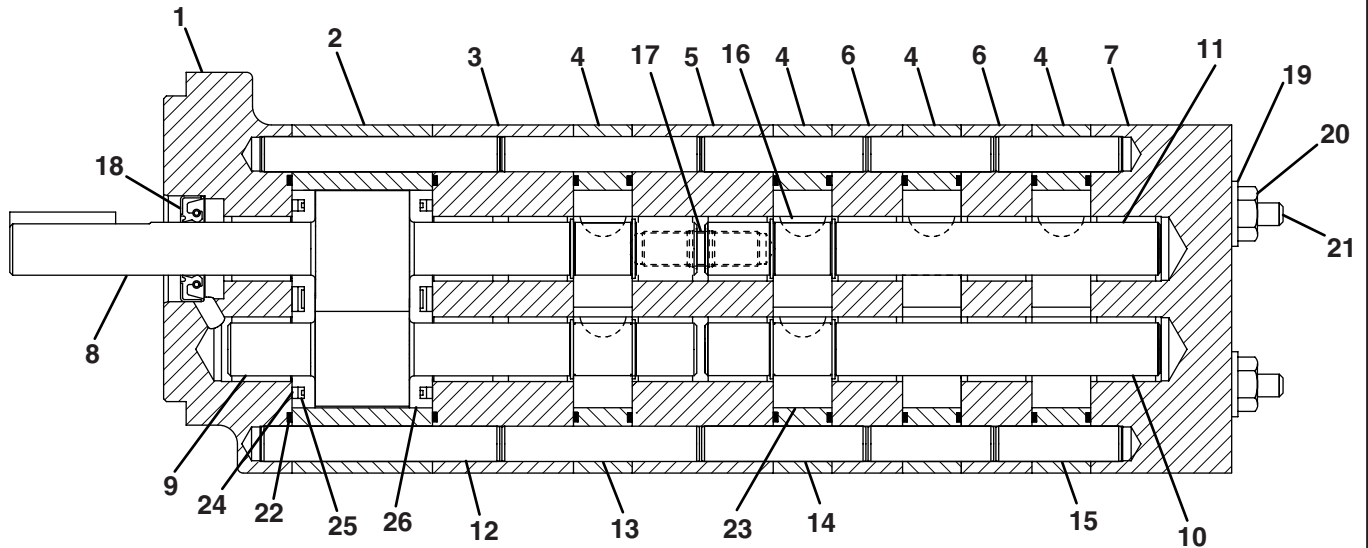
## 35.1 Gear Pump

Part Number 2809848 and 2809849

**2809848 4 Section Pump  
Used on Greens King IV**



**2809849 5 Section Pump  
Used on Greens King IV Plus**



# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	5002464	1	Front Cover		
2	5002470	1	Gear Plate 59B		
3	554295	1	Bearing Plate Assembly		
4	551682	3	Gear Plate 37B	Used on 2809848	
4	551682	4	Gear Plate 37B	Used on 2809849	
5	2810036	1	Bearing Plate Assembly	Used on 2809849 Only	
6	2810033	2	Bearing Plate Assembly		
7	2810035	1	Cover, Pump		
8	5002467	1	Shaft, Input	Used on 2809848	
8	5002465	1	Shaft, Input	Used on 2809849	
9	5002469	1	Shaft, Idler	Used on 2809848	
9	5002468	1	Shaft, Idler	Used on 2809849	
10	554834	1	Shaft and Gear Assembly		
11	554835	1	Shaft and Gear Assembly		
12	N/S	2	Pin		
13	554837	2	Pin, Dowel	Used on 2809849 Only	
14	554838	2	Pin, Dowel		
15	554303	2	Pin		
16	463001	2	Key, Woodruff #2	Used on 2809848	
16	463001	3	Key, Woodruff #2	Used on 2809849	
17	554839	1	Coupling		
18	554297	1	Seal, Oil		
19	554840	4	Washer		
20	443106	4	Nut, 5/16-18 Hex	Used on 2809849 Only	
21	2810037	4	Stud	Used on 2809849 Only	
22	551690	10	Seal Ring		
23	551683	6	Gear, 37B		
24	5002473	2	Plastic Backer		
25	5002472	2	O-Ring Backer		
26	5002471	2	Gear Plate		
27	2811402	4	Screw, 5/16-18 x 8-1/2" Grade 8	Used on 2809848 Only	
>	28	332588	1	Key, 3/16 Square x 1-1/8"	

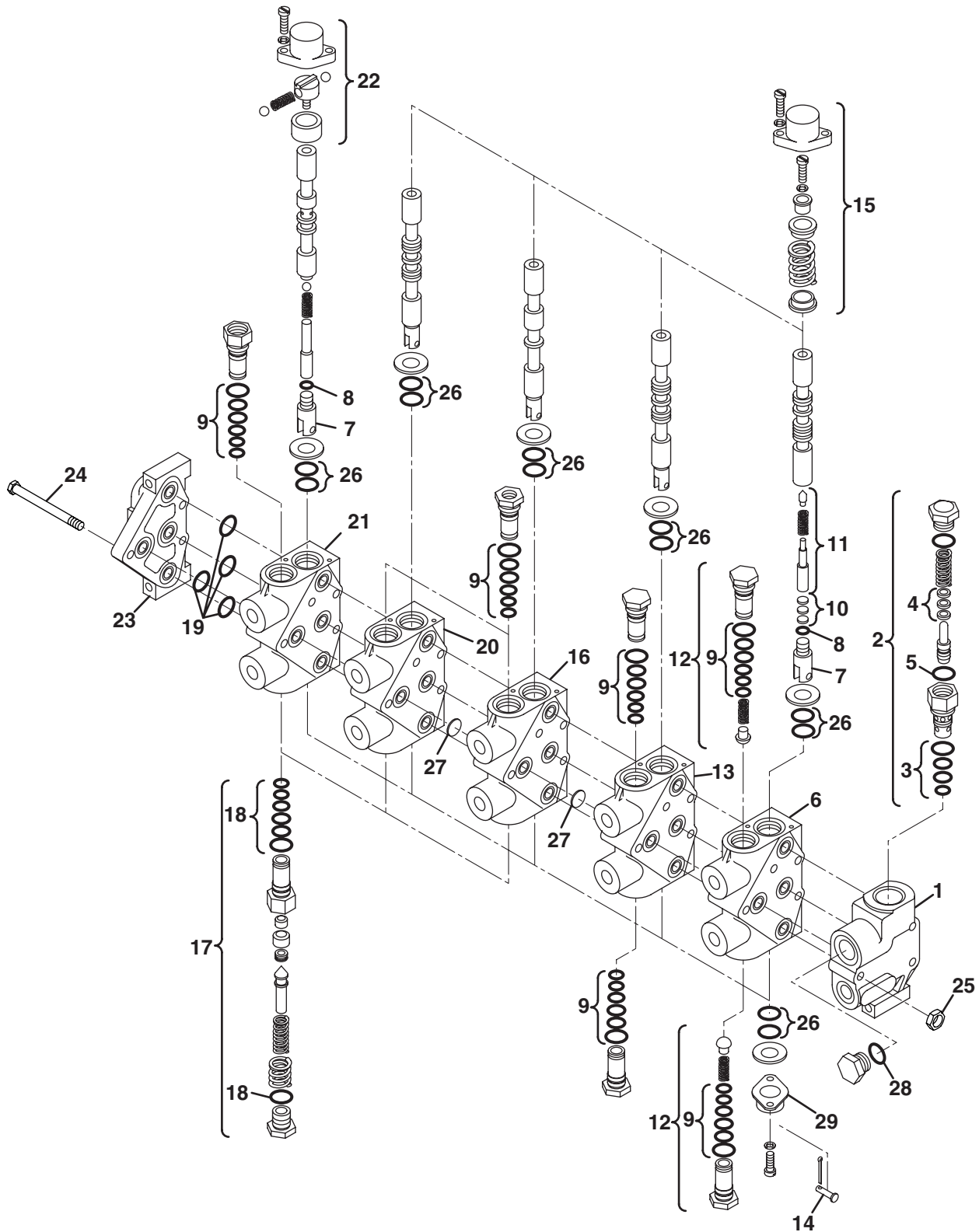
> Change from previous revision

# GREENS KING IV

Serial No. All

## 36.1 5 Spool Valve

Part Number 116536



# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	—	Cover Plate	
2	2500568	1	Main Relief Cartridge	
3	2500567	1	• Relief Seal Kit	
4	2500795	AR	• Shim	0.020 Thick
5	549748	1	• O-Ring, Viton	
6	5000020	1	Section, 4 Way Complete	
7	549626	2	Clevis	
8	546711	2	O-Ring Clevis	
9	2500793	7	Check Plug Seal Kit	
10	2500794	AR	Shim, Washer	
11	2500538	1	Kit, Relief	
12	2500505	2	Check Plug Assembly	
13	5000021	1	Section, 4 Way Complete	
14	502751	1	Pin Kit	
	N/S		• Clevis Pin	
	N/S		• Cotter Pin	
15	548998	4	Positioner Spool	
16	5000022	1	Section, 4 Way Complete	
17	503151	3	Relief Assembly	
18	546709	3	• Seal Kit, Relief	
19	501352	6	Seal Kit, Midsection	
20	5000023	1	Section, 4 Way Complete	With Inlet
21	5000024	1	Section, 4 Way FF	
22	2500569	1	Positioner	
23	549000	1	Plate, Right Cover Complete	
24	2500570	1	Bolt, Hex Head Kit	Includes 3 Bolts
25	444744	3	Nut, 3/8-24 Centerlock	
26	4125776	5	Spool Seal Kit	
27	546712	2	Disc Seal	
28	4133016	1	O-Ring, Plug	

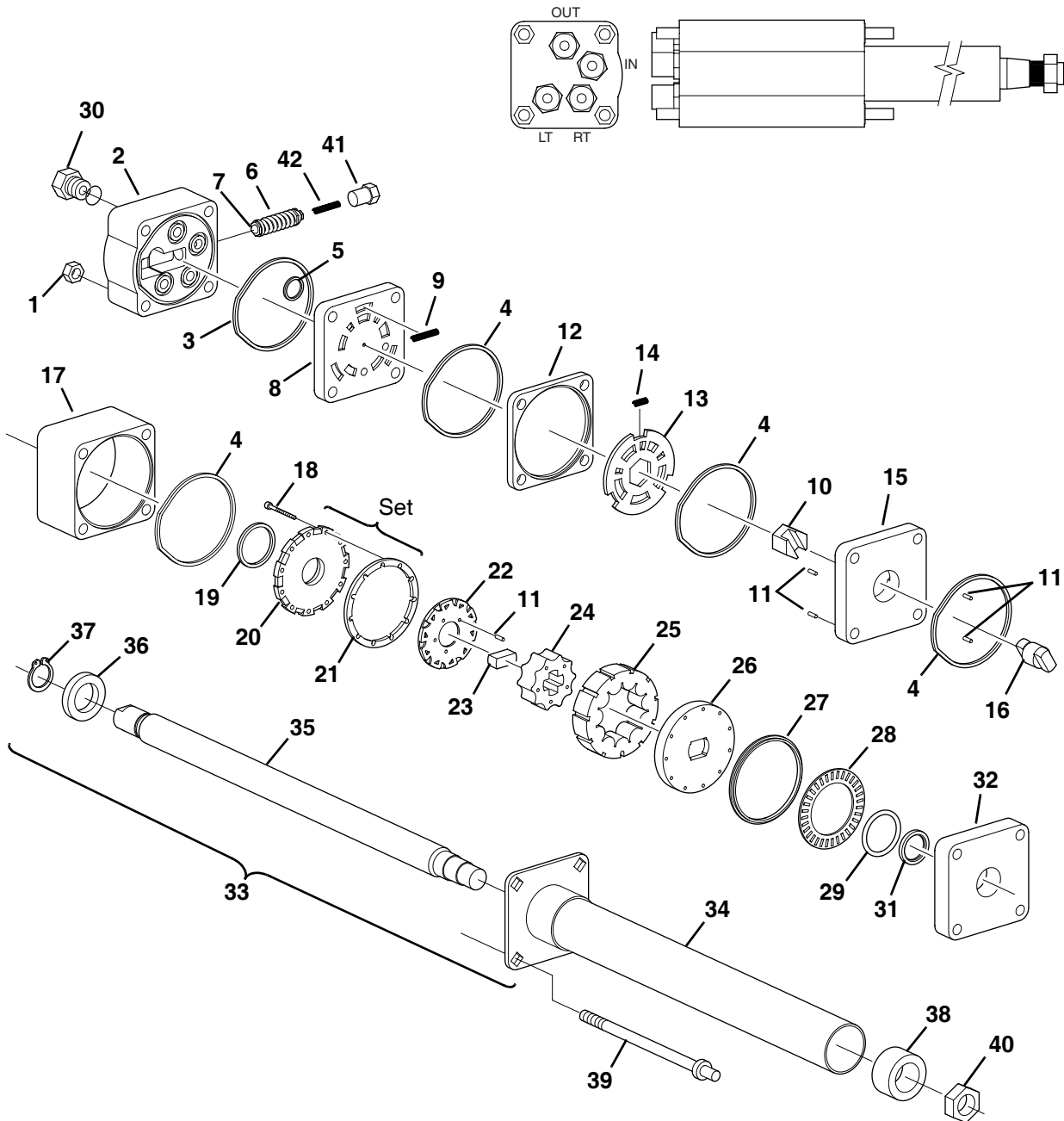
> Change from previous revision

# GREENS KING IV

Serial No. All

## 37.1 Steering Unit

Part Number 4136214



# GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	443108	4	Nut, 5/16-24 Center Lock	
2	—	1	Port Cover	
3	C	1	Seal Ring	
4	C	4	Seal Ring	
5	C	4	O-Ring	
6	—	1	Relief Valve Assembly	Includes Item 42
7	557734	1	Dampening Cap	
8	5000426	1	Port Manifold	
9	B	3	Spring	
10	503387	1	Hex Drive Assembly	
11	A&D	9	Needle Roller	
12	503398	1	Valve and Ring	
13	503398	1	Valve and Ring	
14	B	3	Spring	
15	554854	1	Isolation Manifold	
16	551105	1	Drive Link	
17	551106	1	Metering Ring	
18	A	11	Screw, Hex Socket Head	
19	C	1	Seal, Commutator	
20	A	1	Commutator Cover	
21	A	1	Commutator Ring	
22	A	1	Commutator	
23	A	1	Spacer, Drive Link	
24	A	1	Rotor	Items 24 and 25 are a matched set
25	A	1	Stator	Items 24 and 25 are a matched set
26	A	1	Drive Plate	
27	554858	1	Spacer	
28	554856	1	Thrust Bearing	
29	C	1	Face Seal	
30	351122	1	Plug and O-Ring	
31	554857	1	Seal Spacer	
32	—	1	Upper Cover Plate	
33	—	1	Column Assembly	Includes Items 34&35
34	—	1	Upper Cover and Jacket Assembly	
35	—	1	Input Shaft	
36	4132533	1	Bearing	
37	5000429	1	Snap Ring	
38	—	1	Dust Seal	
39	5000480	4	Stud	
40	443828	1	Nut, 5/8-18 Hex Jam	
41	5000434	1	Plug, Relief Valve	
42	—	1	Return Spring	
A	502922	1	Kit A, Metering Assembly Kit	
B	502924	1	Kit B, Spring Kit	
C	557738	1	Kit C, Seal Kit	
D	502925	1	Needle Roller Kit	

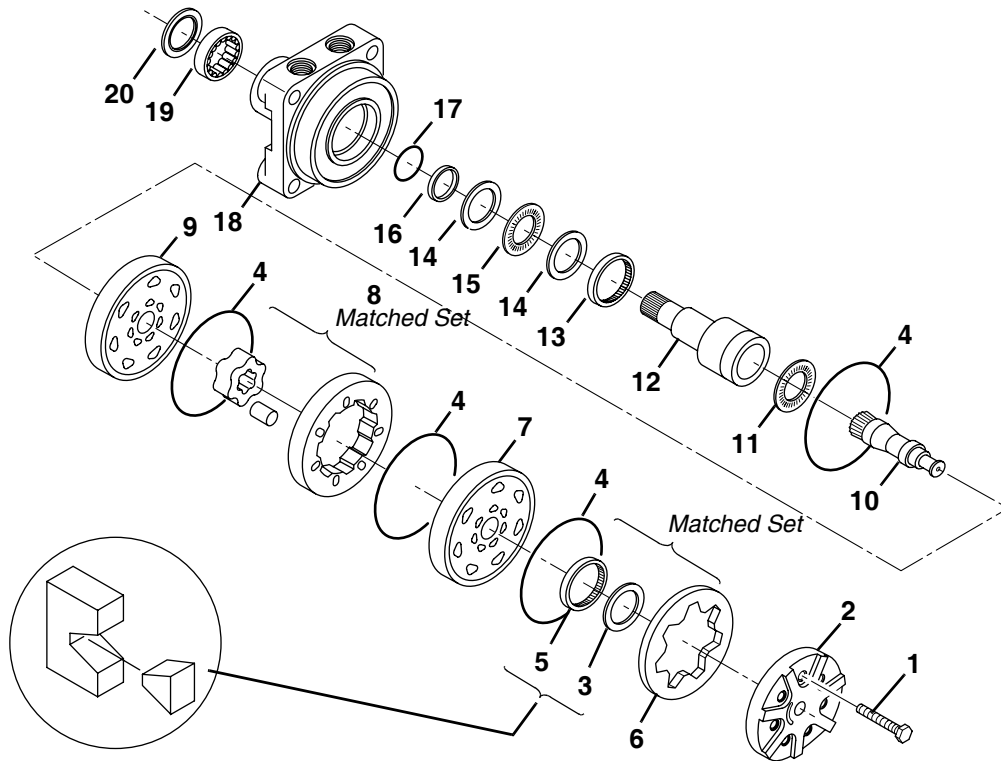
> Change from previous revision

# GREENS KING IV

Serial No. All

## 38.1 Hydraulic Motor

Part Number 122675

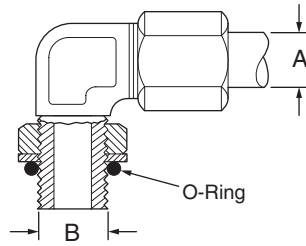


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	554513		Special Bolt	
2	N/S		End Cover	
3	★		Bonded Ring	Included in Seal Kit
4	★		Seal Ring	Included in Seal Kit
5	N/S		Commutator	
6	N/S		Commutator Ring	
7	N/S		Manifold	
8	N/S		Rotor Assembly	
9	N/S		Wear Plate	
10	N/S		Drive Link	
11	554514		Thrust Bearing	
12	554515		Coupling Shaft	
13	554516		Bearing	
14	554517		Thrust Washer	
15	554518		Thrust Bearing	
16	★		Shaft Seal	Included in Seal Kit
17	★		Backup Ring	Included in Seal Kit
18	N/S		Housing Assembly	
19	554519		Bearing	
20	★		Seal	Included in Seal Kit
21	★		Shim, Seal (Not Shown)	Included in Seal Kit
★	554520		Seal Kit	Includes Grease Pack

> Change from previous revision



**39.1 O-Ring Seal Chart**



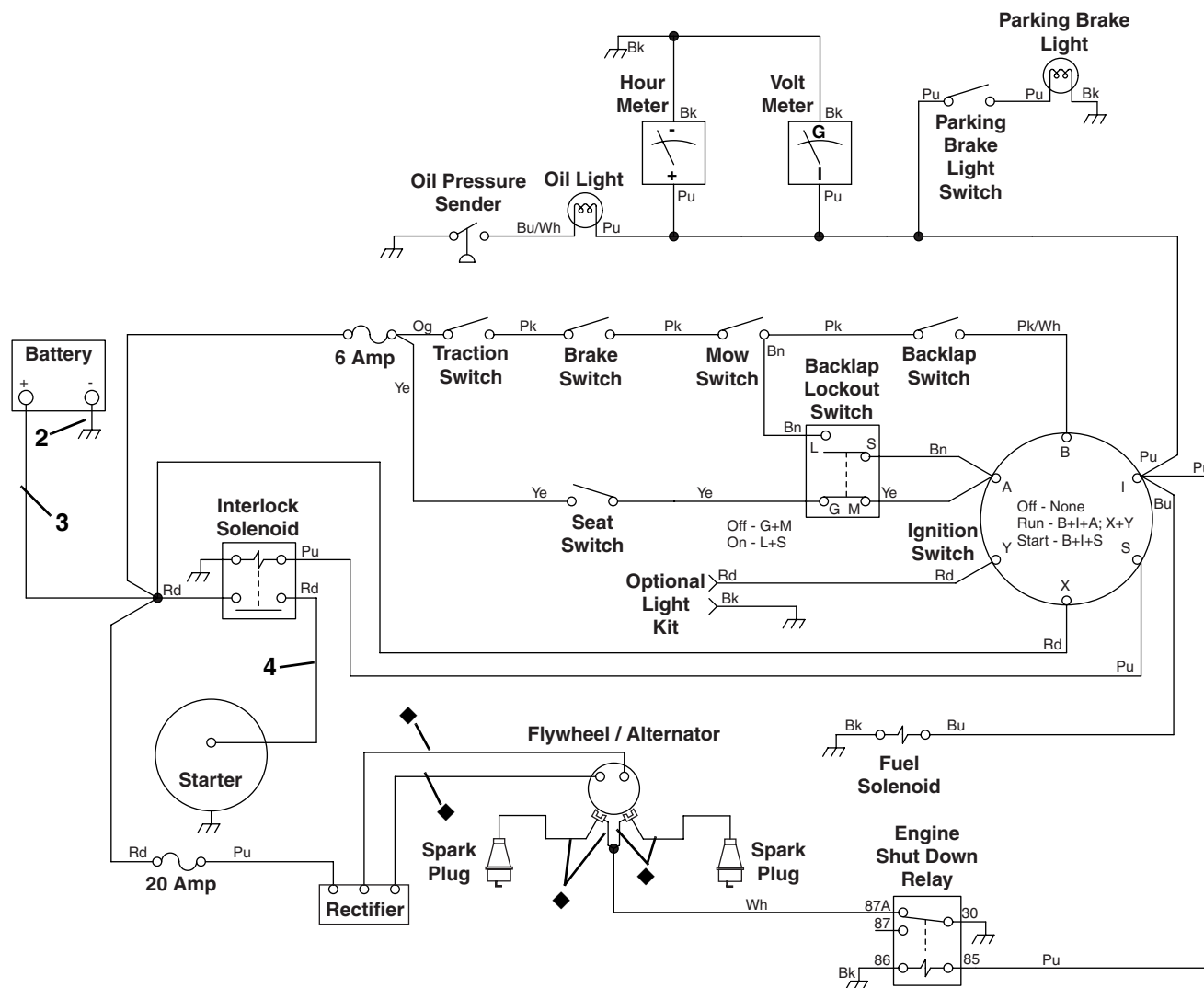
<b>A</b> Tubing O.D. Hose I.D.	<b>B</b> Thread Size	<b>O-Ring</b> Part Number
1/8	5/16-24	459290
3/16	3/8-24	459291
1/4	7/16-20	339896
5/16	1/2-20	459293
3/8	9/16-18	339897
1/2	3/4-16	339898
5/8	7/8-14	339899
3/4	1-1/16-12	339900
7/8	1-3/16-12	459296
1	1-5/16-12	339901
1-1/4	1-5/8-12	339902
1-1/2	1-7/8-12	339903
2	2-1/2-12	459300

> Change from previous revision

# GREENS KING IV

## 40.1 Gas Electrical Schematic

Serial No. 62287 - All  
Serial No. 62288 - All

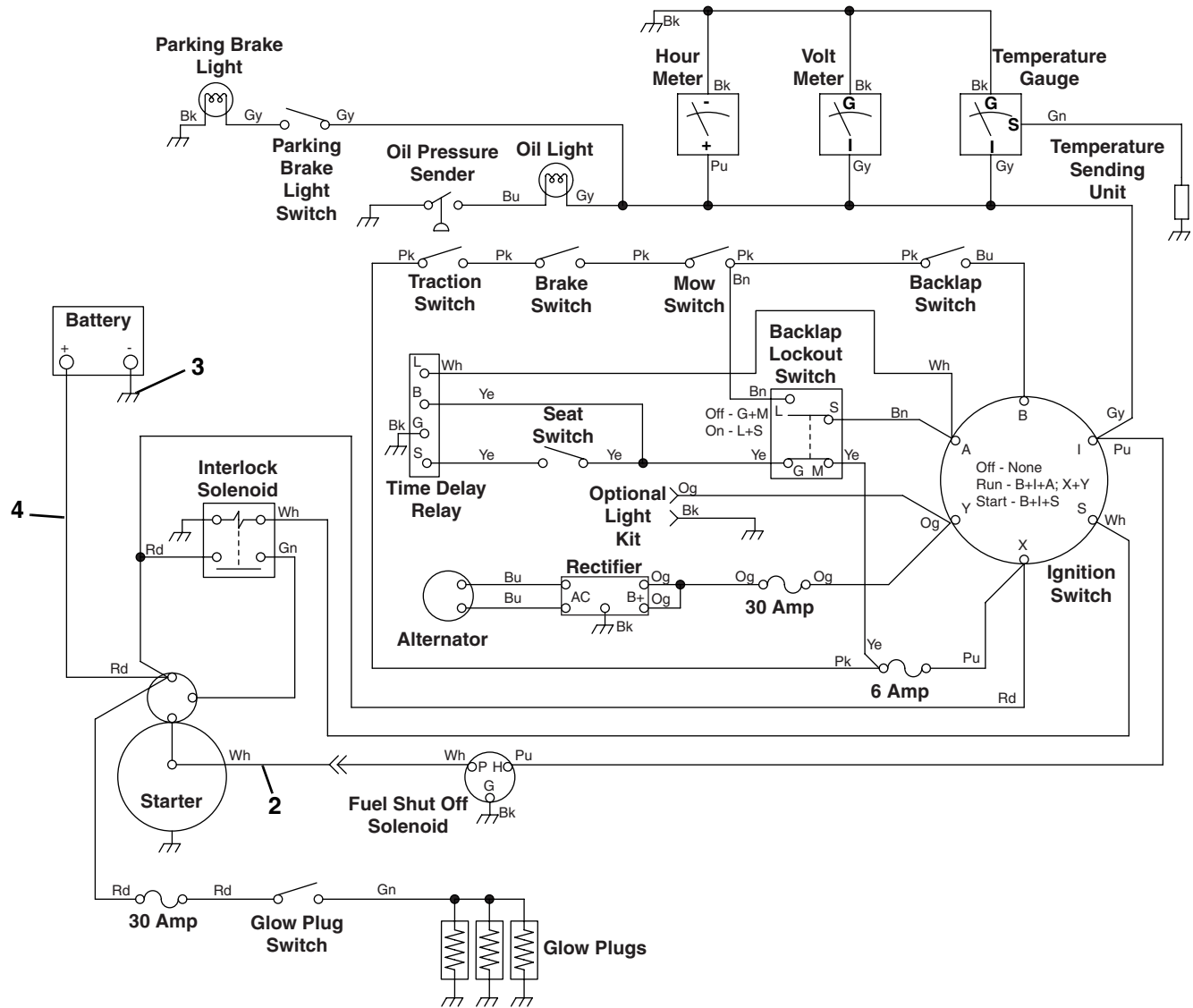


◆ - Indicates Wire Included in Engine

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811599	1	Main Wire Harness	
2	131808	1	Negative Battery Cable	
3	131076	1	Positive Battery Cable	Battery to Interlock Solenoid
4	3001411	1	Solenoid Cable	Interlock Solenoid to Starter

> Change from previous revision

## 41.1 Diesel Electrical Schematic

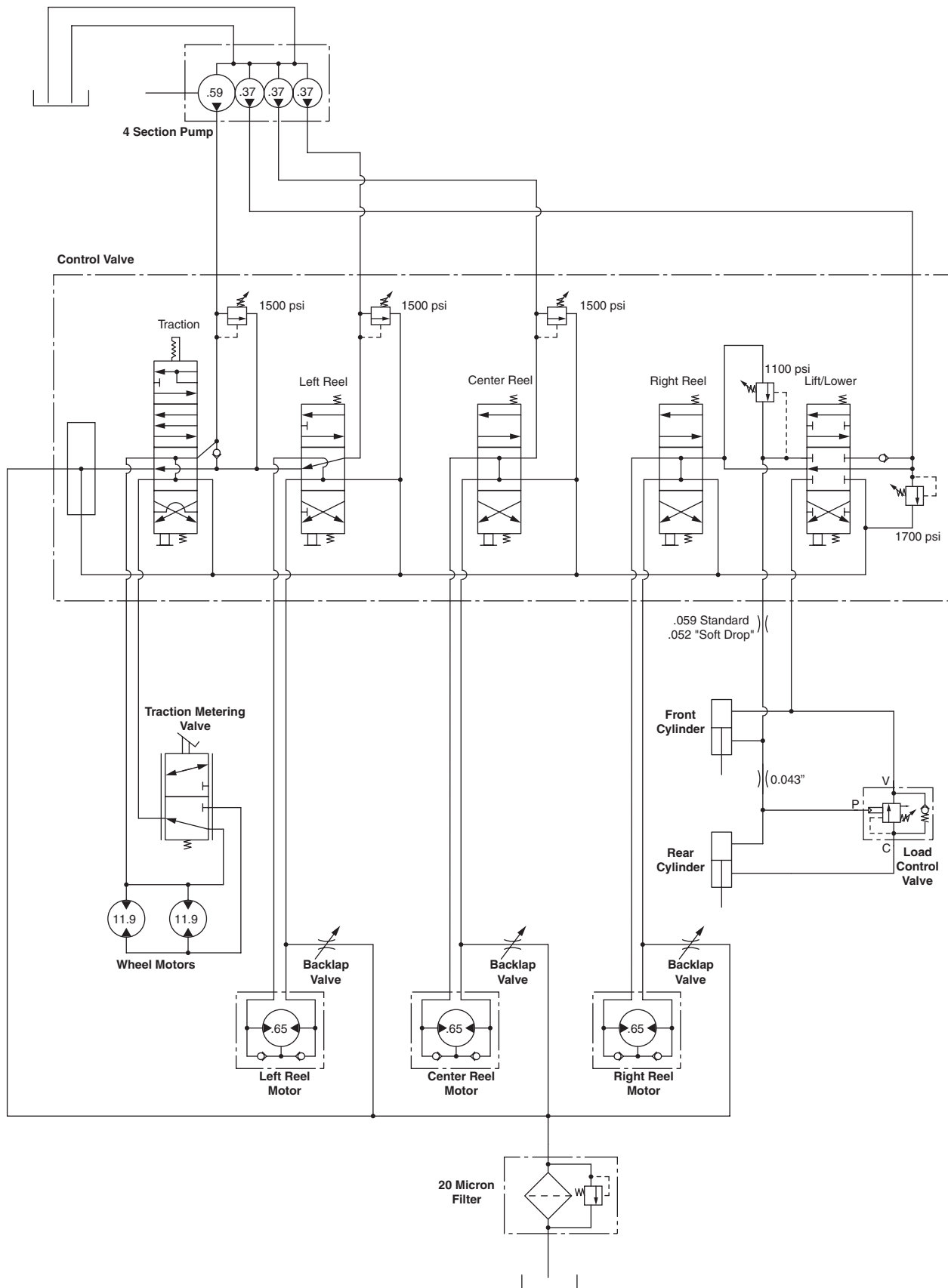


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811573	1	Main Wire Harness	
2	1004908	1	• Wire, Starter to Main Harness	Part of Fuel Solenoid Pull Circuit
3	131808	1	Negative Battery Cable	
4	1002968	1	Positive Battery Cable	Battery to Starter Solenoid
5	3009768	1	Engine Ground Cable (Not Shown)	Pump Iso-Mount to Oil Tank Strap

> Change from previous revision

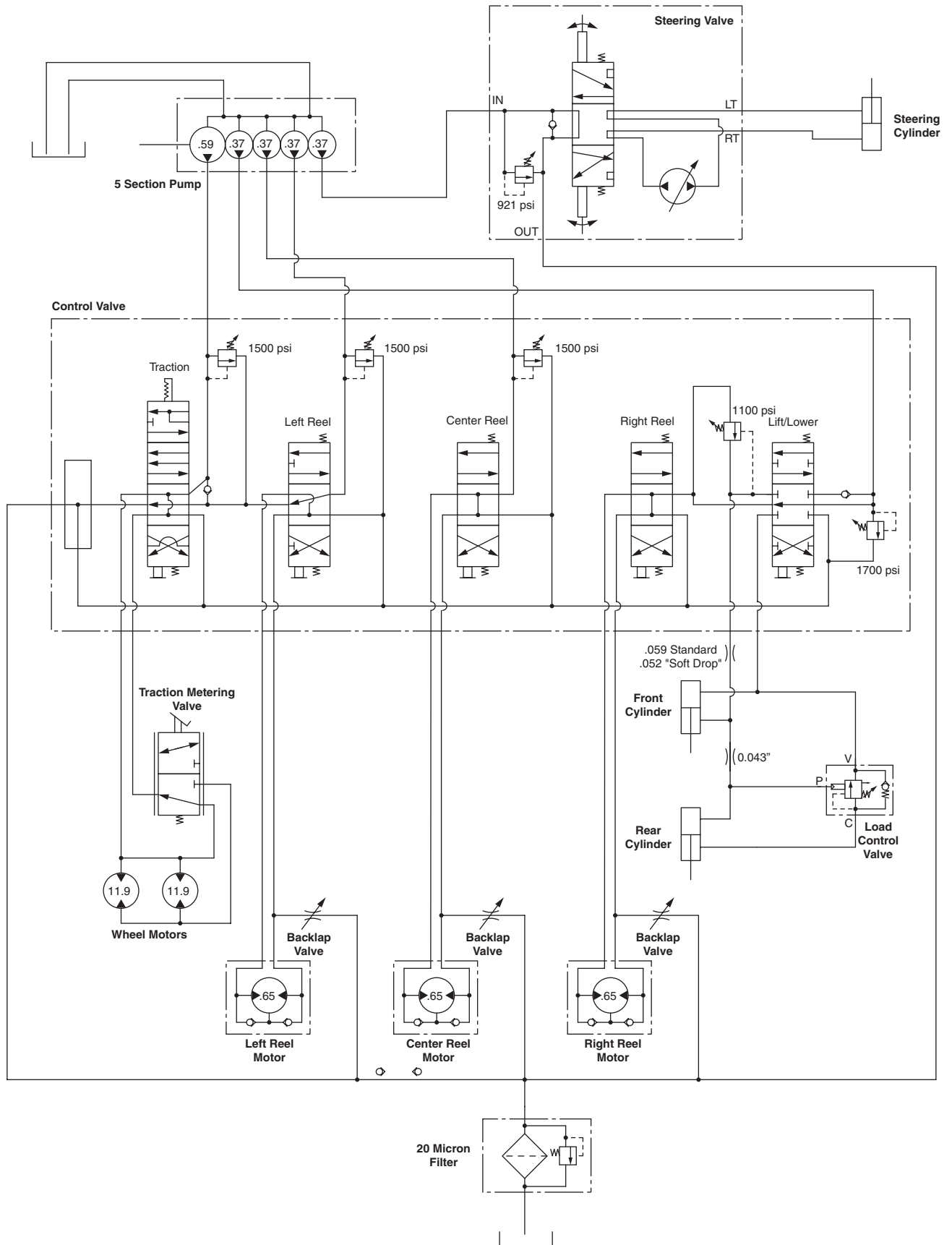
## 42.1 Hydraulic Schematic

### Greens King IV



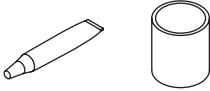
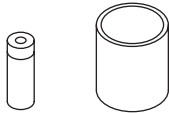

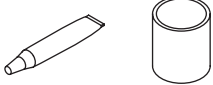

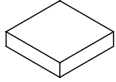


## 43.1 Hydraulic Schematic

### Greens King IV Plus



# Fluids and Compounds

<b>Hydraulic Fluid*</b>		
5001405	Two 2-1/2 Gallon Container of ISO VG68 Oil	
5001404	One 5 Gallon Pail of ISO VG68 Oil	
2500548	Two 2-1/2 Gallon Container of 10W30 Oil	
2500546	One 5 Gallon Pail of 10W30 Oil	
503409	Two 2-1/2 Gallon Container of ATF Fluid	
503407	One 5 Gallon Pail of ATF Fluid	
<b>2-Cycle Oil</b>		
554600	Twenty Four 16 Ounce Plastic Container	
554599	Twenty Four 8 Ounce Plastic Container	
<b>Grease</b>		
5000067	One 5 Gallon Pail OO-Grease	
5000068	Twenty Four 8 Ounce Tube OO-Grease	
<b>Paint</b>		
5003469	16 Ounce Gray Aerosol	
554598	Six 12 Ounce Orange Aerosol	
2500789	Twelve 1 Quart Can Orange	
546409	Two 1 Gallon Can Orange	
<b>Lapping Compound</b>		
5002488	One 10 Pound Pail of 80 Grit	
5002490	One 25 Pound Pail of 80 Grit	
5002489	One 10 Pound Pail of 120 Grit	
5002491	One 25 Pound Pail of 120 Grit	
<b>Specialty Compound</b>		
365422	5.3 Ounce Tube of Electrical Insulating Gel	
5001581	14 Ounce Can of Lubriplate Multi Lube A	
<b>Biodegradable Hydraulic Fluid*</b>		
5003102	One 55 Gallon Drum Jacobsen GreensCare 68	
5003103	One 5 Gallon Pail Jacobsen GreensCare 68	
5003105	One 55 Gallon Drum Jacobsen GreensCare 46	
5003104	One 5 Gallon Pail Jacobsen GreensCare 46	
4115976	One 55 Gallon Drum Jacobsen GreensCare 32	
4115977	One 5 Gallon Pail Jacobsen Greens Care 32	
5003106	Twenty Four 14 Ounce Tube Greens Care Grease	
<b>O-Ring Kit</b>		
5002452	SAE O-Ring Boss (3/32 ~ 2" Tube O.D.)	
5002453	Common O-Ring Kit	
5002454	O-Ring Face Seal ORFS (-4 ~ -24 ORS Tube Size)	
<b>Right Start Kit for New Machines</b>		
See your local Jacobsen Dealer		
<b>On-Time Maintenance Kit</b>		
See your local Jacobsen Dealer		

\* Refer to the Parts & Maintenance manual for the correct hydraulic oil requirements for your machine.

Jacobsen offers a High Usage Parts Catalog illustrating commonly used Parts through easy to read line Drawings. See your local Jacobsen Dealer for a copy.

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