



Parts & Maintenance Manual

Jacobsen Greens King V™ 1862G

Briggs & Stratton Vanguard™
V-Twin OHV Gasoline Engine

2WD Model 62246

3WD Model 62267

Jacobsen Greens King V™ 1962D

Kubota D662-E
Diesel Engine

2WD Model 62247

3WD Model 62268

BOB-CAT • BUNTON • CUSHMAN • JACOBSEN • RANSOMES • RYAN



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.

TEXTRON

TURF CARE AND SPECIALTY PRODUCTS

To Order Parts

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 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 Textron Turf Care and Specialty Products 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 Textron Turf Care and Specialty Products 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 Textron Turf Care and Specialty Products Dealer.

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	5000436	Fuel Filter (Gas Units)		5000527	Head Light Bulb
	5000441	Air Filter (Gas Units)		5000078	Hydraulic Oil Filter
	5000440	Oil Filter (Gas Units)		558015	Ignition Key
	5001190	Fuel Filter Element (Diesel Units)		336481	Pump Drive Belt (Gas Units)
	554596	Pre Fuel Filter (Diesel Units)		3009565	Pump Drive Belt (Diesel Units)
	5000913	Air Filter (Diesel Units)			
	554011	Oil Filter (Diesel Units)			

Service Support Material

Qty.	Part No.	Description
	3010787	Operator's Manual
	3010788	Parts Catalog
	3004386	Engine Parts Catalog

Qty.	Description
	Service Manual
	Operator Training Video

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 contain additional information important in ordering that part.

Indented Items

Indented 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

1.1 OPERATING SAFETY



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 operator back-up system on this tractor prevents the tractor from starting unless the brake lever is engaged, mower switch is off and mow / Lift pedals are in neutral. The system will stop the engine if the operator leaves the seat without engaging the parking brake or setting the mower switch off.

NEVER operate tractor unless the operator back-up system is working.

WARNING

1. Before leaving the operator's position for any reason:
 - a. Return traction pedal 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.

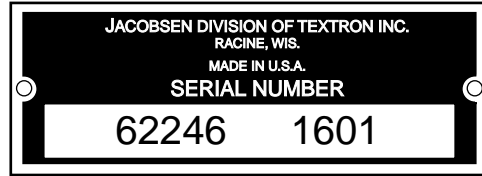
If additional information or service is needed, contact your Authorized Textron Turf Care and Specialty Products Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service. **Use of other than original or authorized Textron Turf Care and Specialty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

2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

- 62246..... Greens King 1862G 2-WD
Tractor, 18 hp gasoline engine.
Without battery, or mowers.
- 62247..... Greens King 1962G 2-WD
Tractor, 19 hp diesel engine.
Without battery or mowers.
- 62267..... Greens King 1862G 3-WD
Tractor, 18 hp gasoline engine.
Without battery, or mowers.
- 62268..... Greens King 1962G 3-WD
Tractor, 19 hp diesel engine.
Without battery or mowers.

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



Serial Number An identification plate, like the one shown, listing the serial number, is attached to the frame of the tractor near the center lift arm mount.

Product	EEC Sound Power	Sound Pressure Level Operator Ear	Vibration M/S ²	
			Arms	Body
62246	96 dba	78.2 dba	2.52	.692
62247	<99.6	<83 dba	2.9	1.05
62267	96 dba	78.2 dba	2.52	.692
62268	<99.6	<83 dba	2.9	1.05

2.2 ENGINE

1862G Gasoline Engine

- Make Briggs & Stratton
- Model Vanguard V-Twin OHV
- Horsepower 18 hp (13.5 kW) @3600 rpm
- Displacement 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

1962D Diesel Engine

- Make Kubota
- Model D662-E
- Horsepower 18.5 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 7 or 11 blades
- Cutting Width 62 in. (1574 mm)

- Cutting Frequency:
 - 7 Blade 0.074 in./mph (1.17 mm/kph)
 - 11 Blade 0.055 in./mph (0.87 mm/kph)

2.4 TRACTOR

Tires 20 x 10 - 10 tubeless
Pressure:..... 8-12 psi (55-83 kPa)
Battery:
 Type 12 Volt Lead/Acid
 Group 45 GMF
Parking Brake Mechanical front wheel disk
 Hand lever actuated

Speed:
 Mow 0 - 3.7 mph (5.9 kph)
 Transport 0 - 7.6 mph (10.6 kph)
 Reverse 0 - 3.5 mph (5.6 kph)
Hydraulic System:
Capacity 4 U.S. gal. (19 liters) System
Fluid Type ATF Dextron II or III
Filter Full Flow 10 micron
Steering Hydrostatic power steering
Mower Lift Hydraulic Double Acting Cylinders

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	50	(1270)	62246	895	(406)
Wheel Base.....	52.8	(1341)	62247	1009	(458)
Width - Transport Position.....	68	(1727)	62267	930	(422)
Width - Mowing Position	70	(17780)	62268	1044	(474)
Width - Wheel	56.5	(1435)			
Turning Radius.....	18	(457)			

2.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Textron Turf Care and Specialty Products Dealer for a complete listing of accessories and attachments.



CAUTION: Use of other than Textron Turf Care and Specialty Products 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 67841
Backlapping Kit 68629
Fine Bristle Brush..... 68539
Rear Roller Cleaner 68643
Quick Roller (Set of 3)..... 68606
Spiker (Set of 3) 68519
Traction Tire 68637
Turf Groomer 1/4" Spacing 67809
Turf Groomer 1/2" Spacing 67811
Vertical Mower (Set of 3)..... 68647

Reels

7 Blade Reel (Set of 3)..... 68644
7 Blade Reel (Single) 68645
11 Blade Reel (Set of 3) 67040
11 Blade Reel (Single) 68646

Rollers

Grooved Front Roller 68527
Solid Roller 68530
High Cut Roller 15/16 in..... 68634
High Cut Roller 3/4 in..... 68594
Grooved Front Roller (Steel)..... 68613
Grooved Front Roller (Aluminum)..... 68614
Grooved Rear Roller..... 68580

Support Literature

Operator's Manual 3010787
Parts Catalog..... 3010788
Diesel Engine Parts Catalog..... 3004386
Operator Training Video
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 Textron Turf Care and Specialty Products 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 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 midspan between pulleys.
2. If tension is incorrect, loosen alternator mounting bolts (A) and adjust alternator until proper belt tension is achieved. Tighten hardware (A)

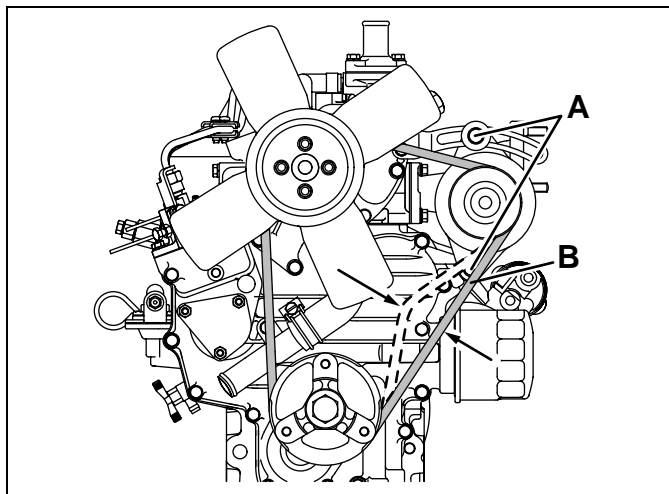


Figure 3A

3.3 PUMP DRIVE BELT

Adjust pump belt to deflect 3/16 in. (4.8 mm) with a force of 5-7 lb. (2-3 kgf) applied at midspan.

1. Loosen hardware (D and E).
2. Pivot pump assembly away from engine to increase tension on belt then tighten hardware (D and E).

Note: A square hole (C) that will fit a 1/2" socket driver or breaker bar has been provided in the pump mounting plate as a means of pivoting the pump.

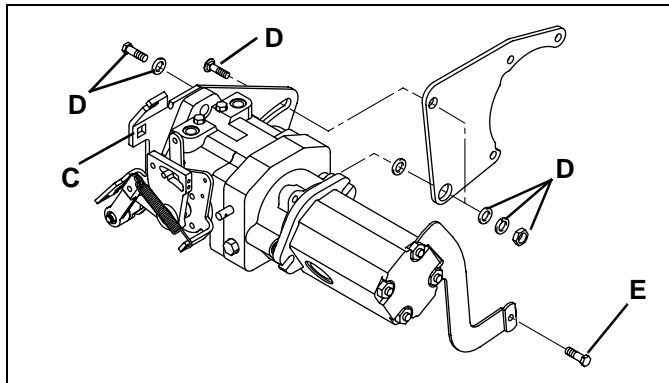


Figure 3B

3.4 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 3.7.



CAUTION: To prevent personal injury and damage to the cutting edges, wear gloves and handle the reel and bedknife with extreme care.

2. Inspect the reel blades and bedknife to insure good sharp edges without bends or nicks.
 - a. The leading edge of the reel blades (**F**) 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).

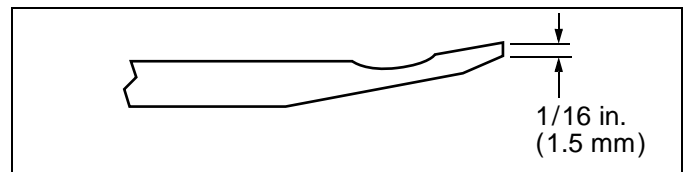


Figure 3C

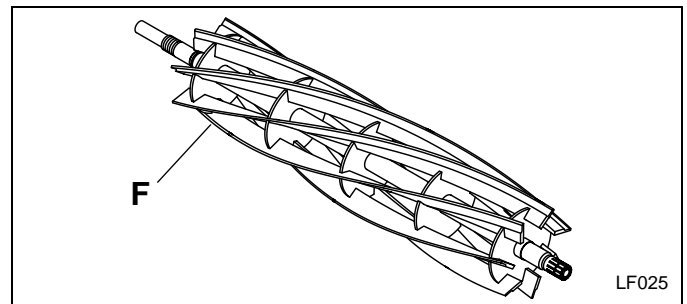


Figure 3D

3.5 BEDKNIFE ADJUSTMENT

1. Read Section 3.4 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.*
3. Use adjusters (**G** and **H**), to adjust gap. Loosen bottom adjuster (**H**) and turn top adjuster (**G**) 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.

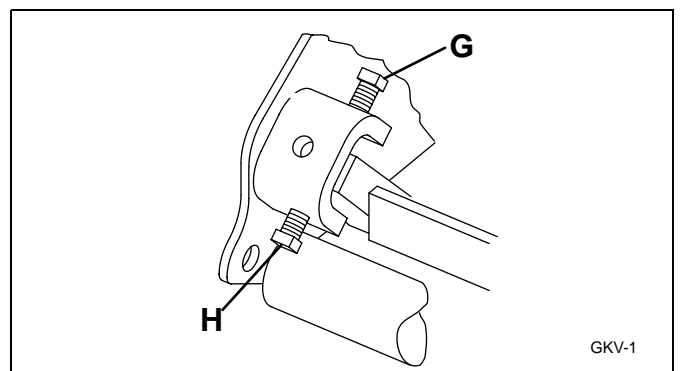


Figure 3E

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

3 ADJUSTMENTS

3.6 CUTTING HEIGHT

Note: Always make the reel to bedknife adjustment before adjusting height of cut. (Sections 3.4 and 3.5).

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 between the underside of screw head and gauge block surface (J).
 - b. Adjust screw (L) to obtain desired height then tighten the wing nut.
3. Loosen the nuts on the front roller brackets (K) just enough to allow the adjuster knob (N) 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 (L) over the bedknife (M) and adjust the knob (N) to close the gap between the screwhead and bedknife. Then tighten locknut (K).

6. Repeat Steps 4 and 5 on opposite end. Complete adjustment to one end before adjusting opposite end.
7. Tighten nuts (K) and recheck each end.

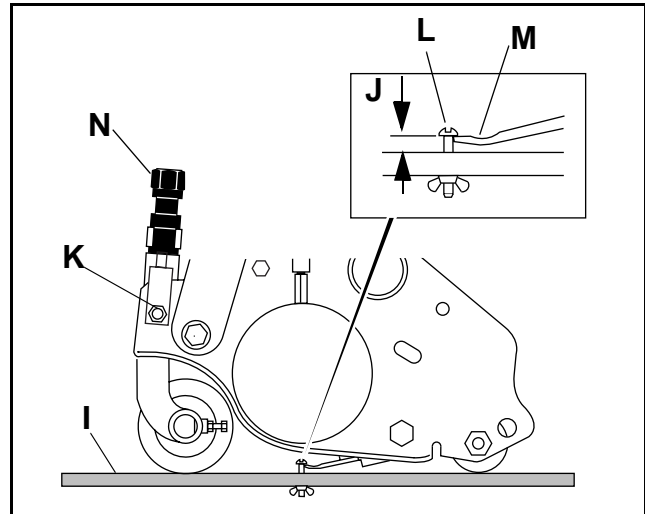


Figure 3F

3.7 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 (P), 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.

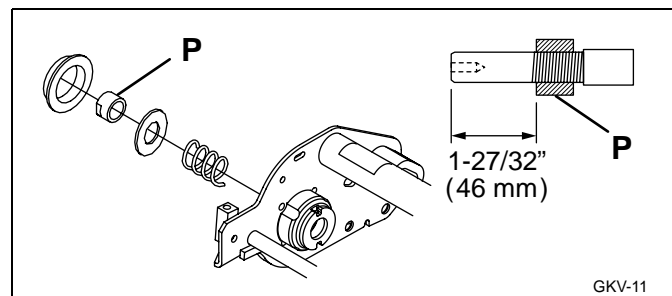


Figure 3G

3.8 CHOKE CONTROL (GAS ENGINES)

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.

3.9 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. Steering wheel nut 25-30 ft. lb., (34-41 N.m)

4. Wheel mounting hardware 65-85 ft lb., (88 - 115 N.m). Check and retorque daily until torque is maintained.

3.10 HYDRO SWITCH (3WD ONLY)

1. Remove the engine cowling to gain access to the switch.
2. **Coarse Adjustment:** Loosen mounting screws (**Q**). Slide the switch bracket to position roller (**R**) close to, but not touching, the "V" of the cam. Tighten screws (**Q**).
3. **Fine Adjustment:** Loosen switch mounting screws (**S**). Move the switch to position roller (**R**) against the "V" of the cam. The switch contacts should close only after the cam moves, in the direction of forward travel. The switch contacts should open when the traction pedal is returned to neutral. Tighten screws (**R**).
4. Recheck the adjustment. As the traction pedal is depressed the switch should close within 1/8 to 1/4 in. (3 to 6 mm) of cam rotation. Repeat step 3 if required.

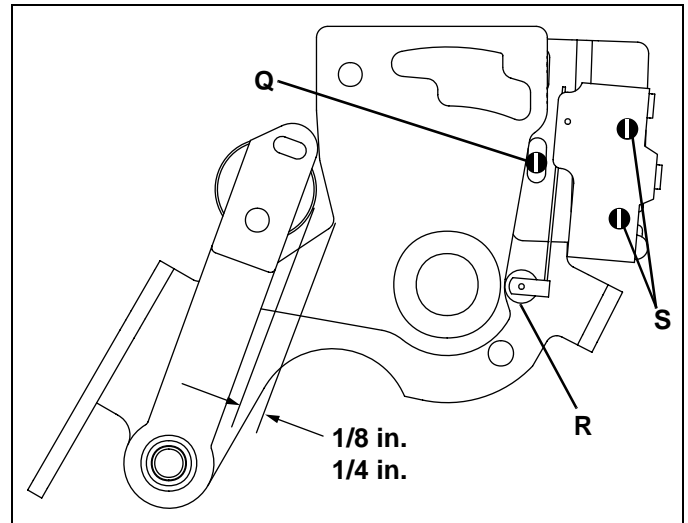


Figure 3H

3.11 ANTI-SWAY TETHER

1. The tether is used to prevent the reels from swaying during transport or gouging the turf when lowered.
 2. Fully raise lift arms (**T**) to the transport position to check the cable.
- Note:** Stop bracket (**U**) must be up against the lift arm.
3. Loosen nut (**V**) and slide bracket (**W**) up or down to obtain a 1/8 to 3/8 in., (3 to 10 mm) deflection in cable (**X**). The cable must not be too tight or have too much slack. The ends of the cable must be free to pivot.

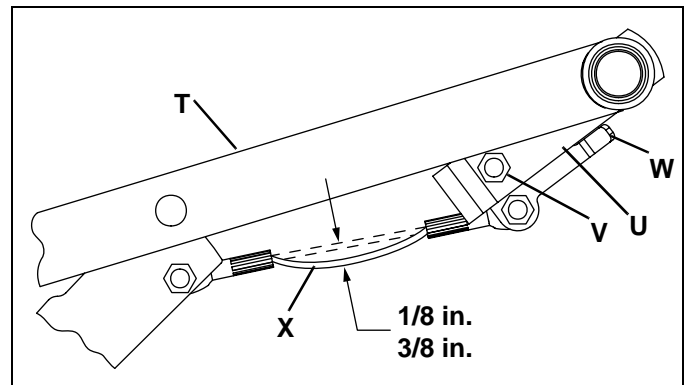


Figure 3I

3.12 PARKING BRAKE ADJUSTMENT

1. Remove console mounting hardware and move console out of the way. Do not disconnect wire harness from console.
2. Disengage parking brake.
3. Loosen nut (**Y**) and turn turnbuckle (**Z**) as required to tighten brakes. Brakes must not drag when disengaged.
4. Engage parking brake and re-install console.

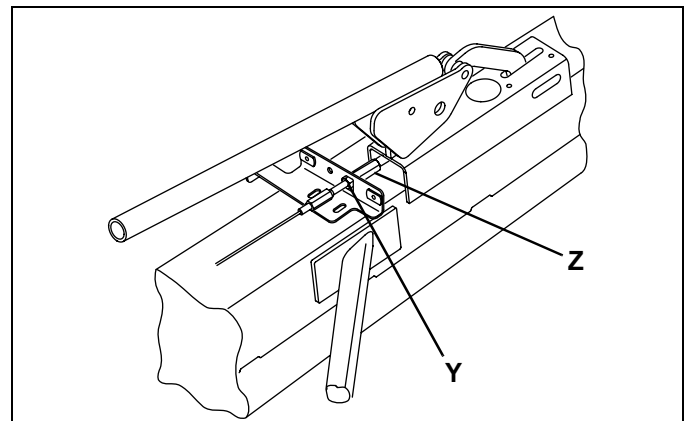


Figure 3J

3 ADJUSTMENTS

3.13 PROXIMITY SWITCH

Adjust the proximity switch so the reels start turning before they are fully lowered and shut off when raised.

3.14 INSTALLING CUTTING UNITS

1. Park the tractor on a flat and level surface, fully lower the lift arms, engage parking brake, stop the engine and remove the key from the ignition switch.
2. Place each cutting unit in front of its respective lift arm (A)

The grass catcher mounting hooks must face outwards on the two front mowers. The center mower has a longer hook.

- a. Manually raise lift arm (A), and slide the cutting unit so that yoke (B) is in line with swivel housing (C).
 - b. Carefully lower swivel housing (C) onto yoke (B).
 - c. Insert spring (D) and pin (E), fasten retaining wire and snap plastic cap (F) over pin (E).
3. Move the motors and their hoses to the cutting units.
 4. Remove protective plug (G) from bearing housing. Retain plug for future use. Coat spines of reel shaft with a good quality non-metallic, fibre based grease and assemble coupler (H) to the reel shaft.
 5. Apply a light coat of grease to motor O-ring and inside lip of bearing housing. Slide Motor end into bearing housing.



WARNING

To prevent cuts use socket wrench or turf groomer knob to turn reel. **Do not turn reel by hand.**

8. For removal of the cutting units, follow the assembly procedure in reverse order.

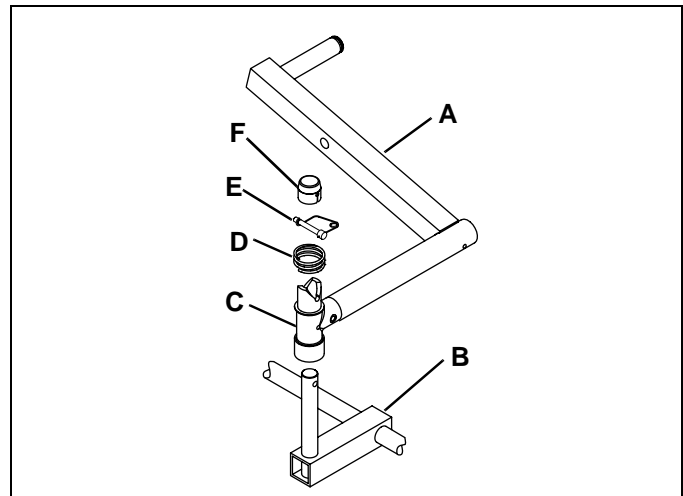


Figure 3K

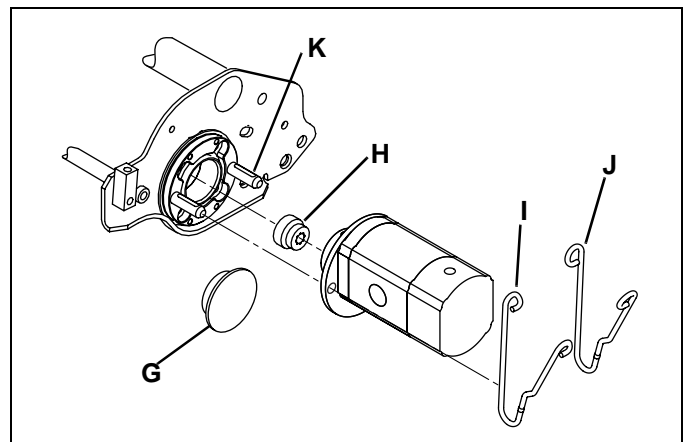


Figure 3L

6. If any resistance is felt, the reel may need to be turned to engage the motor spline. Slowly turn the reel, while applying pressure to the end of the motor, until the motor slides into place. Make certain the motor is fully seated against the bearing housing.
7. Secure the motor to the housing with two motor clips (I and J) as shown. Squeeze the two ears of the clip to freely slide into the slot of mounting pin (K). Insert clip up to the first bend. The two ear loops should face towards the center of the motor.

4.1 GENERAL



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 Textron Turf Care and Specialty Products 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

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, Textron Turf Care and Specialty Products 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 Textron Turf Care and Specialty Products 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 MAINTENANCE

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

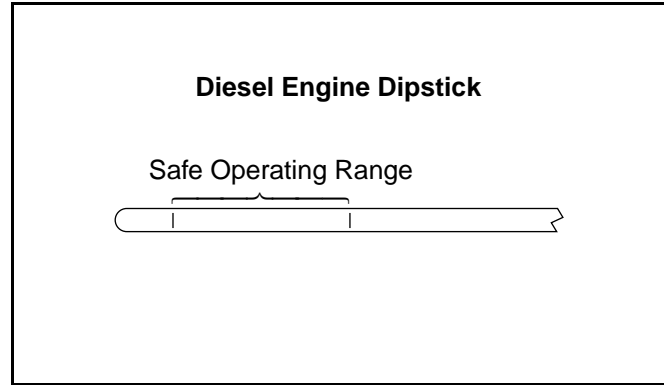


Figure 4A

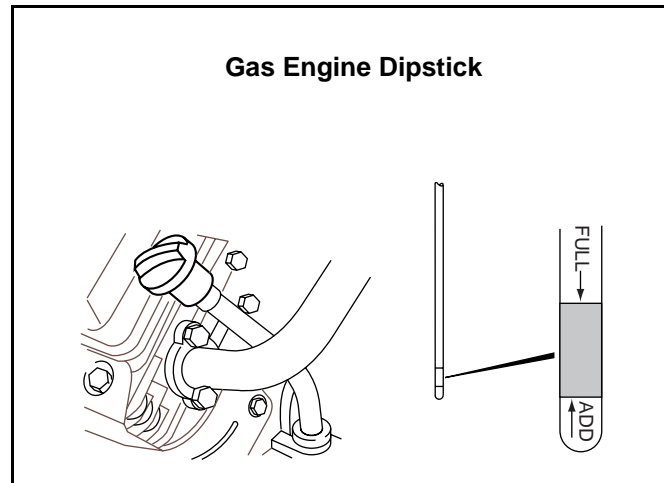


Figure 4B

4.4 GAS ENGINE AIR FILTER

1. Remove and service the foam pre-cleaner (A) 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 (B) 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.

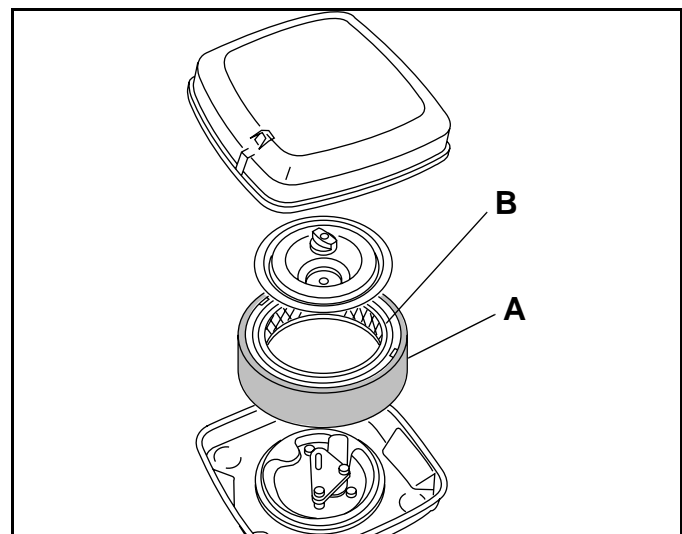


Figure 4C

4.5 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.

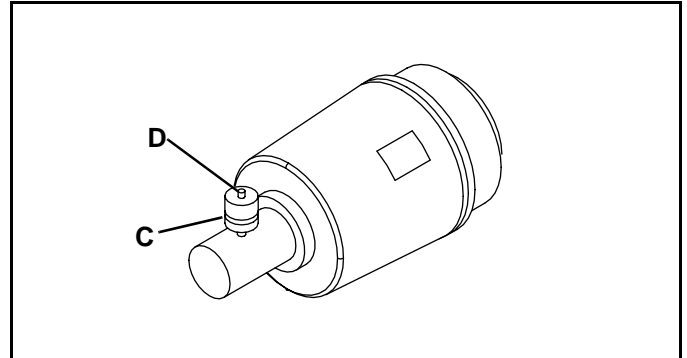


Figure 4D

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, turn the key switch to the ON position to start the fuel pump, and bleed the fuel system if the fuel filter and lines have been removed, or the fuel tank has become empty. See Engine Manual.

4 MAINTENANCE

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.

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.

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.
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.

4.11 HYDRAULIC HOSES

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.

4.12 HYDRAULIC OIL

Refer to Section 6.3 for specific maintenance intervals.

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 full. A Low oil level in the main tank will drain oil from the expansion tank.
 - c. The oil level in the expansion tank should always be at or above the "COLD" level mark. Add oil to the expansion tank, not the main tank.
2. Drain and replace the hydraulic oil every 200 hours 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 on top of expansion

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.

tank. Check and clean the breather cap, replace as necessary.

4. After oil has drained install drain plug and fill with Textron Turf Care and Specialty Products Hydraulic oil.
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 expansion tank to the "COLD" level.

4 MAINTENANCE

4.13 HYDRAULIC OIL FILTERS

The hydraulic system is protected by one 10 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.
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 operator backup system, and circuit breakers regularly.

If the operator backup does not function properly and the problem cannot be corrected, contact an authorized Textron Turf Care and Specialty Products 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 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 Textron Turf Care and Specialty Products Dealer.
2. Do not spray water directly at the instrument panel, ignition switch, controller or any other electrical components, or at bearing housings and seals.
3. Clean all plastic or rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.

Repair damaged metal surfaces and use Textron Turf Care and Specialty Products touch-up paint. Wax the equipment for maximum paint protection.



CAUTION: Clean grass and debris from cutting units, drives, mufflers, 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.

4.17 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 Textron Turf Care and Specialty Products Dealer check the cooling system.

4.18 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
5. Check the pressure with an accurate, low pressure tire gauge.
6. 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.*

4.19 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 MAINTENANCE

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.

Note: *The backlapping feature is an optional kit that must be first installed on the tractor.*

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 reel to bedknife as described in Sections 3.4 and 3.5.
1. Lower the reels to the ground.
2. Open the hood and turn the backlap switch to "REVERSE" rotation. Close hood.
 - a. Make absolutely certain your feet and clothing are far away from the reel.
 - b. Make sure the parking brake is "ENGAGED", reel switch is "OFF", backlap switch is "OFF" and the traction pedal is in neutral.
 - c. Move the Forward / Reverse switch to "REVERSE".
 - d. Start the engine. Adjust throttle just above minimum RPM and place the reel switch in "ON" position.
3. Adjust the backlapping valve located under the left rear of the machine, to the desired speed.
4. Apply lapping compound with a long handle brush to high spots first then along entire length of the reel.
5. 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.
6. When the blades have been evenly honed, carefully and thoroughly clean off the remaining lapping compound.
7. Disengage reel switch and stop the engine. Open the hood and return backlap switch to "FORWARD" rotation.

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 Textron Turf Care and Specialty Products 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.

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.



CAUTION: 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. 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.

WARNING

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

5 TROUBLESHOOTING

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 Textron Turf Care and Specialty Products Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	<ol style="list-style-type: none"> 1. Parking brake disengaged, mow / lift pedals not in neutral or reel switch on. 2. Battery low on charge or defective. 3. Fuel tank empty or dirty. 4. Circuit breaker blown. 	<ol style="list-style-type: none"> 1. Check operator back-up system and start-up procedure. 2. Inspect condition of battery and battery connections. 3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 4. Reset circuit breaker.
Engine hard to start or runs poorly.	<ol style="list-style-type: none"> 1. Fuel level low, fuel or fuel filter dirty. 2. Air cleaner dirty. 3. Injectors, fuel pump 4. Engine problem. 	<ol style="list-style-type: none"> 1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 2. Inspect and replace air filter. 3. Consult engine manual. 4. Consult engine manual
Engine stops.	<ol style="list-style-type: none"> 1. Fuel tank empty. 2. Interlocks not set before leaving operator's seat. 	<ol style="list-style-type: none"> 1. Fill with fresh fuel and bleed fuel lines. 2. Engage parking brake, set reel switch to OFF and mow / lift pedals in neutral.
Engine overheating	<ol style="list-style-type: none"> 1. Coolant level low.(Diesel) 2. Air intake restricted. 3. Water pump belt broken or loose.(Diesel) 4. Engine overload 	<ol style="list-style-type: none"> 1. Inspect and add coolant. 2. Clean cooling air intake. 3. Tighten or replace belt. 4. Reduce forward speed
Battery not holding charge.	<ol style="list-style-type: none"> 1. Loose or corroded battery terminals. 2. Low electrolyte. 3. Alternator belt loose or broken. 4. Charging system defective. 	<ol style="list-style-type: none"> 1. Inspect and clean terminals 2. Refill to correct level. 3. Tighten or replace belt 4. See engine manual
Reels cut unevenly	<ol style="list-style-type: none"> 1. Bedknife-to-reel not adjusted correctly. 2. Engine speed too low. 3. Low hydraulic oil 	<p>Inspect bedknife-to-reel adjustment.</p> <p>Check engine speed. Run engine at full throttle.</p> <p>Check reservoir level and fill if needed.</p>
Tractor does not react to traction pedal	<ol style="list-style-type: none"> 1. Parking brake engaged 2. Tow Valve Open 3. Low hydraulic oil 	<p>Disengage parking brake.</p> <p>Close Tow Valve</p> <p>Check reservoir level and fill if needed</p>
Implement does not raise or lower	<ol style="list-style-type: none"> 1. Low hydraulic oil 	<p>Check reservoir level and fill as needed</p>
Gauges/Indicator not operating	<ol style="list-style-type: none"> 1. Circuit Breaker blown 2. Loose wiring 	<p>Reset circuit breaker, check bulb</p> <p>Check electrical connections.</p>

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.

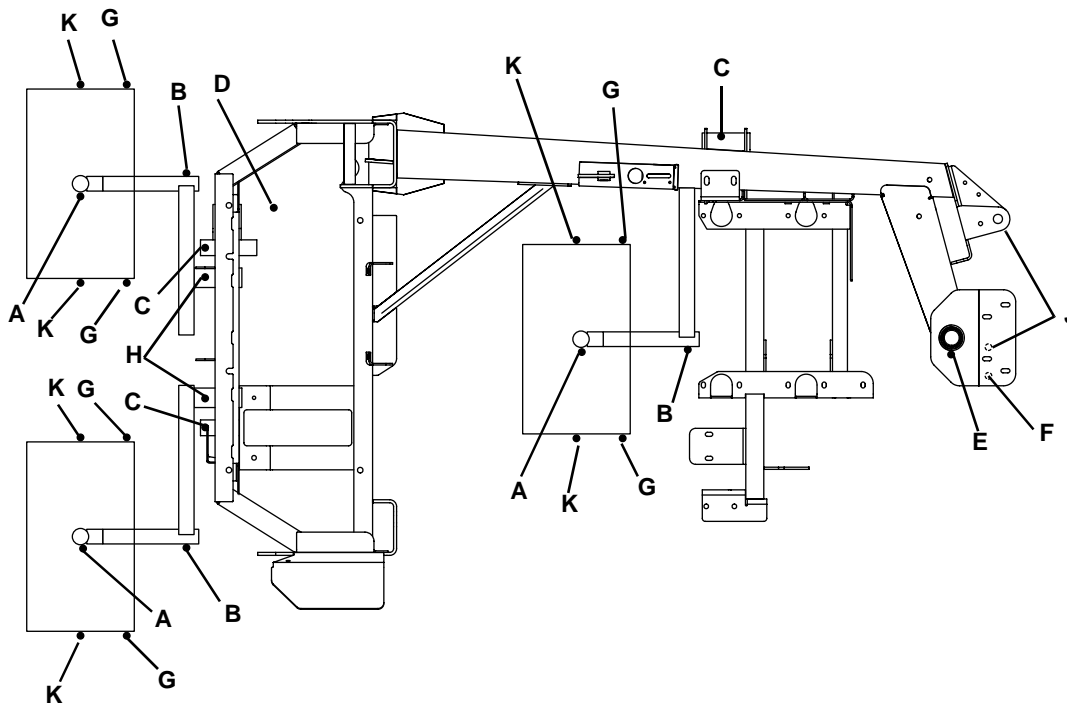
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.

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 fittings (A - D) every 50 hours and fittings (E - K) every 100 hours.

6.2 LUBRICATION CHART



- A. Reel Swivel Housings (3 Fittings)
- B. Lift Arms (3 Fittings)
- C. Cam (3 Fittings)
- D. Treadle
- E. Steering Shaft

- F. Rear Wheel Bearings
- G. Rollers (6 Fittings)
- H. Lift Arm Shafts
- J. Steering Cylinder Pivot
- K. Reel Bearing Cavities.

6 MAINTENANCE & LUBRICATION CHARTS

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			3.2, 3.3	
Brake		I-A*		A						
Cooling System (Diesel)	I-C-A							R	4.17	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**					4.12	III
Hydraulic Oil Filter	I	R*		R					4.13	
Muffler and Exhaust	I			I					4.15	
Radiator Screens	I-C/AR								4.17	
Tires		I-A							4.18	

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

* Indicates initial service for new machines.

** Or every two years 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 Textron Turf Care and Specialty Products hydraulic fluid: Capacity: 5 gallons (19 Liters). Order Part No. 503409 carton, containing two 2-1/2 gal. (9.5 liter) bottles or Part No. 503407 containing 5 gal. (19 liters), pail.

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

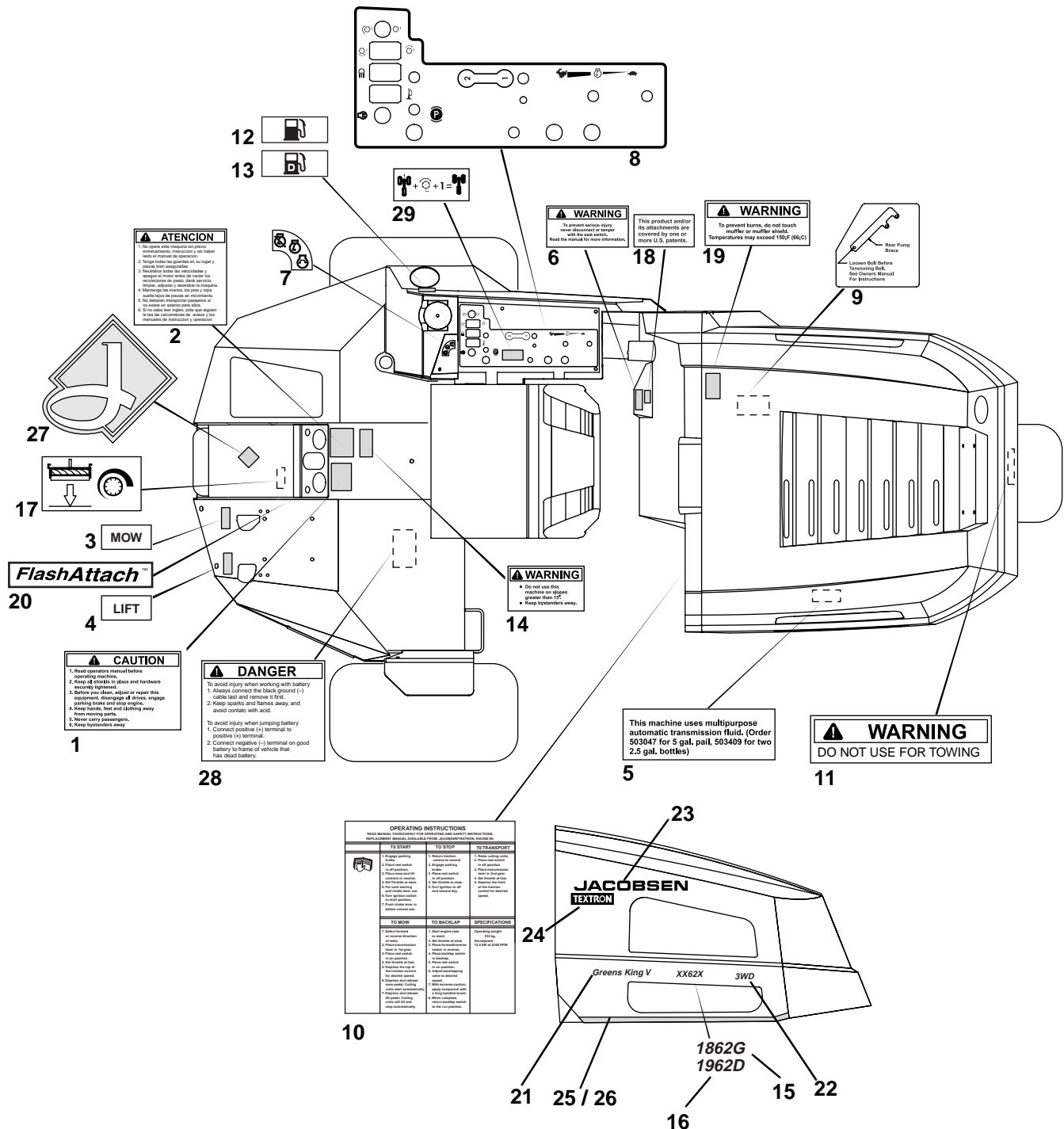
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GREENS KING V

Serial No. All

1.1 Decals



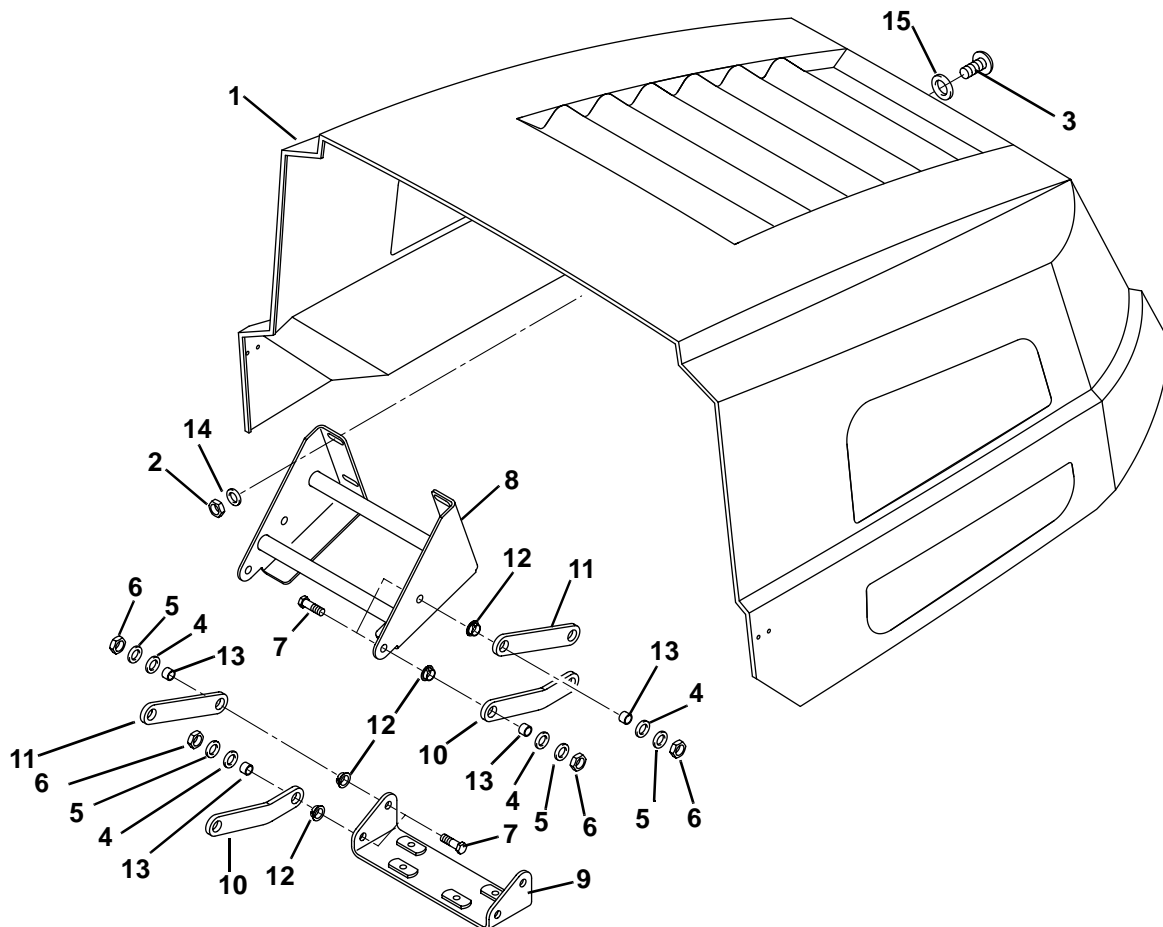
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	361854	1	Decal, Operating Caution	
2	340830	1	Decal, Operating Caution - Spanish	
3	361177	1	Decal, Mow	
4	361178	1	Decal, Lift	
5	365404	1	Decal, Hydraulic Fluid	Located on Oil Cooler Door
6	365339	1	Decal, Seat Switch	
7	3002057	1	Decal, Key Switch	
8	3001863	1	Decal, Instrument Panel	
9	3001861	1	Decal, Pump Adjust	Located on Pump Mounting Plate
10	3003884	1	Decal, Operating Instructions	Gas Units
10	3001862	1	Decal, Operating Instructions	Diesel Units
11	361175	1	Decal, Towing Warning	Located on Steering Cylinder
12	3001788	1	Decal, Gasoline	Gas Units
13	3008576	1	Decal, Diesel Fuel	Diesel Units
14	3002336	1	Decal, Slope Warning	
15	3007828	2	Decal, 1862G	Gas Units
16	3007829	2	Decal, 1962D	Diesel Units
17	3004263	1	Decal, Soft Drop	Located on Front Carrier
18	3004320	1	Decal, Patent	
19	339237	1	Decal, Heat	Gas Units Only
20	3006486	1	Decal, Flash Attach	
21	3007949	2	Decal, Greens King V	
22	3007830	2	Decal, 3WD	3WD Units Only
23	3007504	2	Decal, Jacobsen	
24	3007513	2	Decal, Textron	
25	3008113	1	Decal, Left Side Stripe	
26	3008112	1	Decal, Right Side Stripe	
27	3007531	1	Emblem, Diamond J	
28	3001435	1	Decal, Battery	Located on Battery Strap
29	3005252	1	Decal, 3WD	3WD Units Only
30	3002693	1	Decal, Clear Panel (Not Shown)	Located on back side of Instrument Panel

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GREENS KING V

Serial No. All

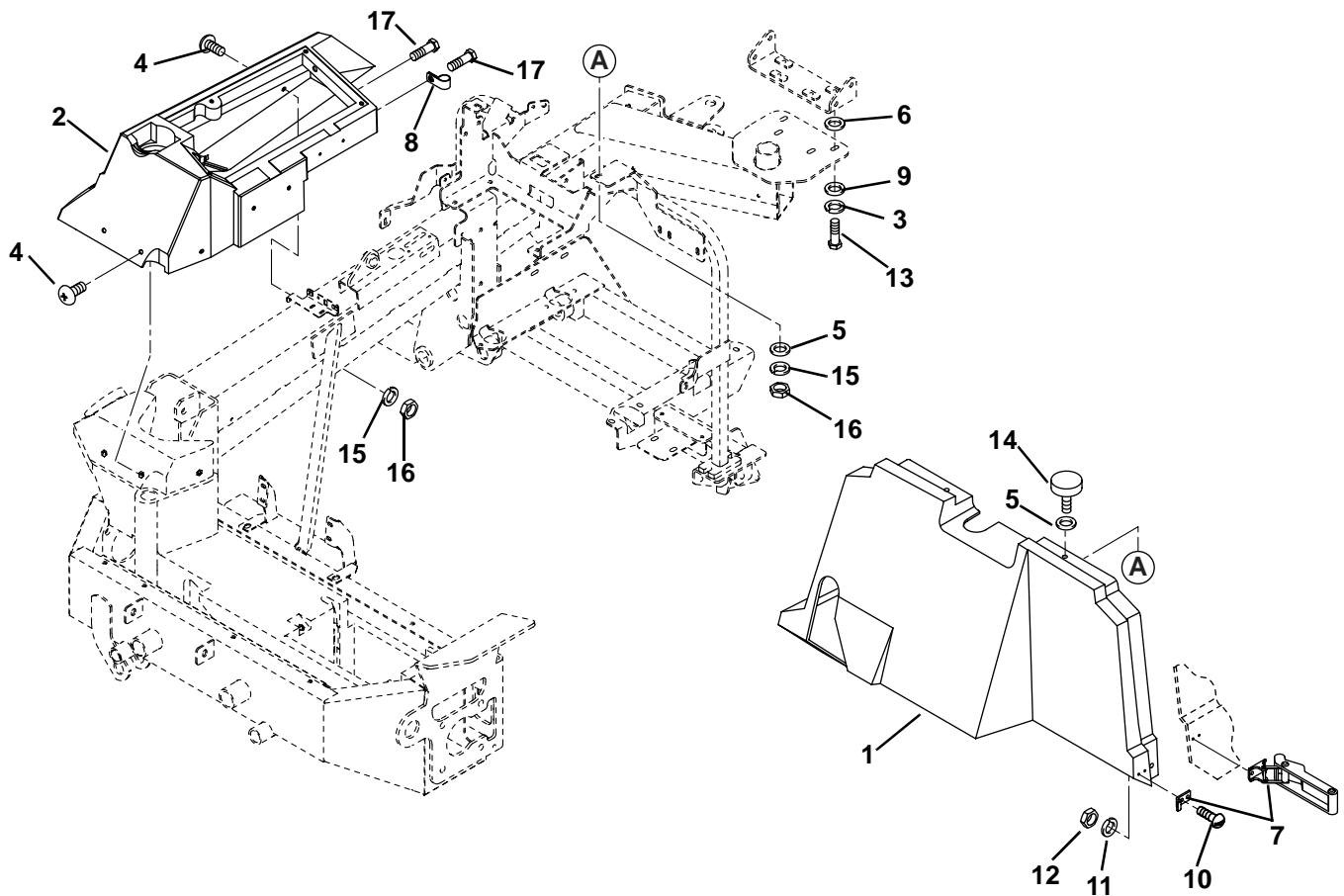
2.1 Hood



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003064	1	Hood	Includes Decals
> 2	445802	4	Nut, 5/16-18 Nylock	
3	404072	4	Screw, 5/16-18 x 1" Truss Head	
4	366878	8	Washer	
5	452008	8	Flat Washer, 3/8	
6	444762	8	Locknut, 3/8 Center	
7	400262	8	Screw, 3/8-16 x 1" Hex Head	
8	1001976	1	Bracket, Hood Hinge	
9	1001539	1	Bracket, Hood Hinge Pivot	
10	3003336	2	Link, Long Hood Hinge	
11	3003335	2	Link, Short Hood Hinge	
12	366877	8	Bearing, Nyliner	
13	366949	8	Spacer, Hood Hinge	
> 14	452006	4	Flat Washer, 5/16	
> 15	2809626	4	Washer, Rubber	

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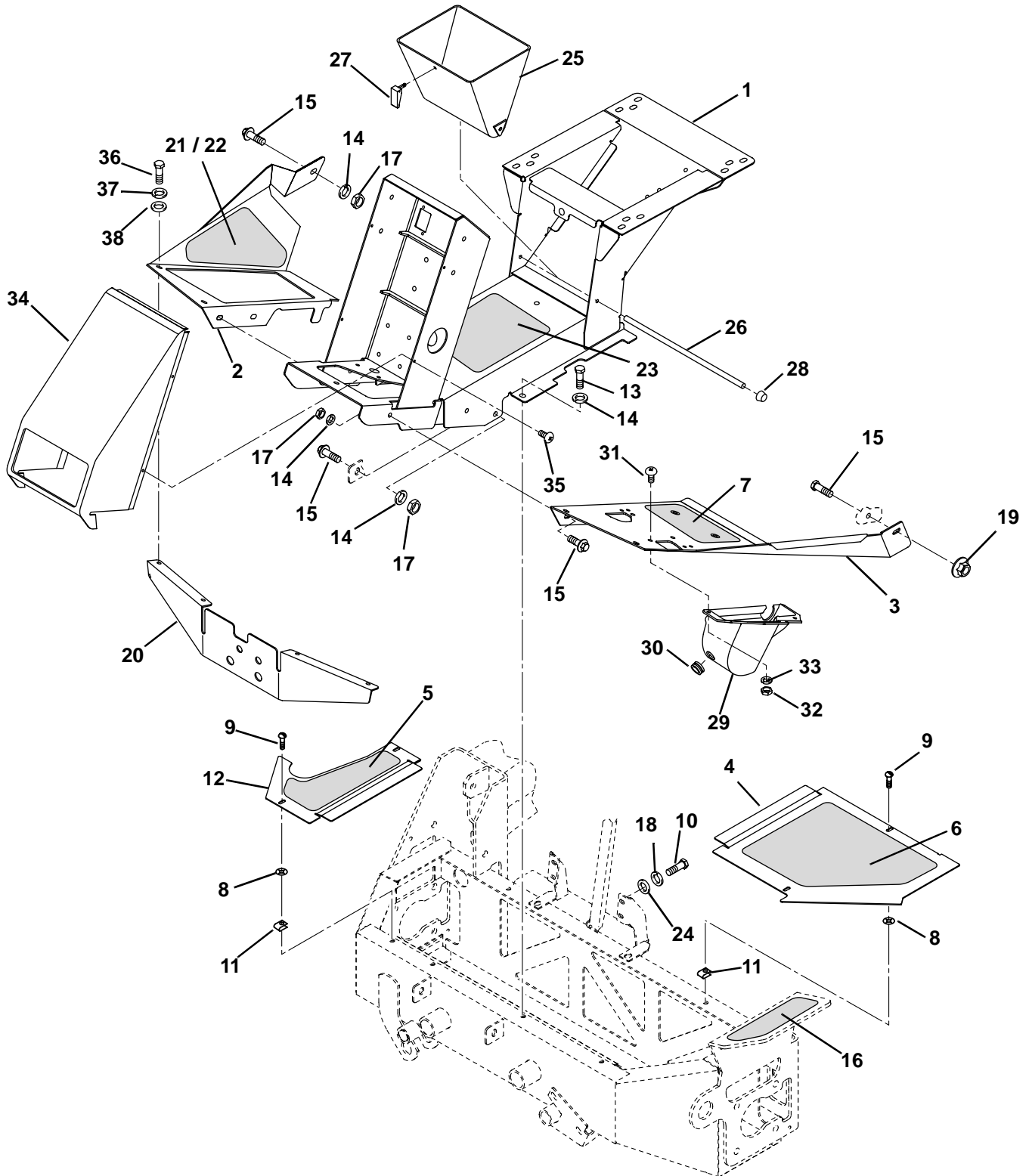
3.1 Hood, Cowling and Console



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003484	1	Cowling	
2	3001959	1	Console	
3	446136	4	Lockwasher, 5/16 Heavy	
4	404014	4	Screw, 1/4-20 x 1/2" Truss Head	
5	452004	12	Flat Washer, 1/4	
6	364489	4	Flat Washer	
7	366883	2	Latch, Hood	
8	354081	1	Clamp	
9	452006	4	Flat Washer, 5/16	
10	402058	8	Screw, #8-32 x 1/2" Slotted Head	
11	446112	8	Lockwasher, #8	
12	444306	8	Nut, #8-32 Hex	
13	400190	4	Screw, 5/16-18 x 1-1/4" Hex Head	
14	3006254	4	Pad, Hood Stop	
15	446130	5	Lockwasher, 1/4 Heavy	
16	443102	5	Nut, 1/4-20 x 3/4" Hex Head	
17	400108	2	Screw, 1/4-20 x 3/4" Hex Head	

> Change from previous revision

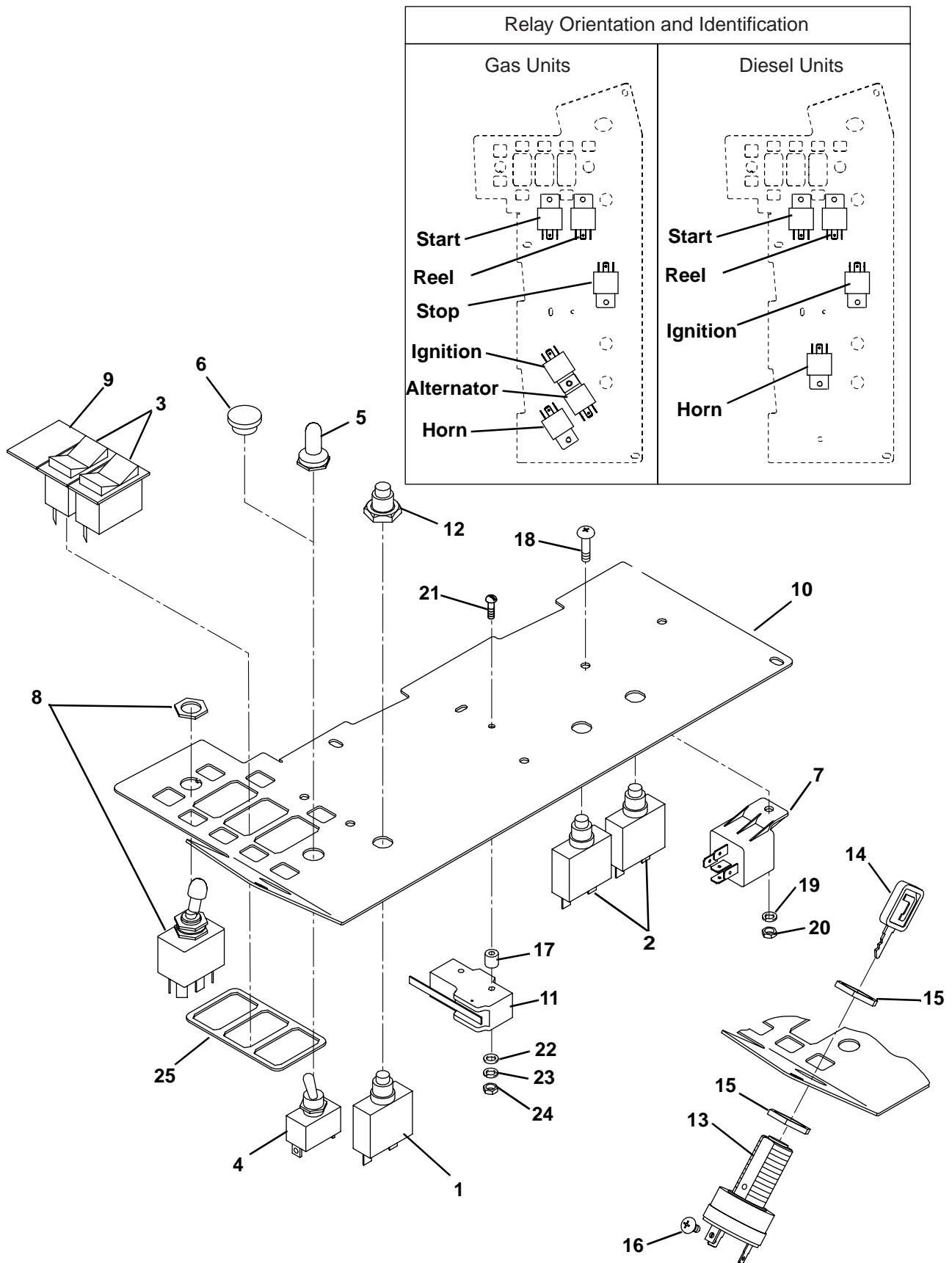
4.1 Operator's Platform



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	1003979	1	Operator Platform		
	328016	2	• Bushing, Traction Pedal Pivot		
2	3003118	1	Panel, Right Side Floor		
3	3007293	1	Panel, Left Side Floor		
4	3000842	1	Panel, Battery Cover		
5	3002593	1	Pad, Floor Panel		
6	3000928	1	Pad, Battery Panel		
7	3000929	1	Pad, Left Side Floor Panel		
8	3003221	4	Retainer, Stud		
9	3003220	4	Stud, 1/4 Turn		
10	400108	4	Screw, 1/4-20 x 3/4" Hex Head		
11	3003222	4	Clip, Receptacle		
12	3001899	1	Panel, Floor		
>	13	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
	14	446136	9	Lockwasher, 5/16 Heavy	
>	15	403770	8	Screw, 5/16-18 x 3/4" Flange Head	
	16	3002025	1	Pad, Fender	
	17	443106	7	Nut, 5/16-18 Hex	
	18	446128	4	Lockwasher, 1/4	
	19	445781	1	Nut, 5/16-18 Hex Whiz Lock	
	20	1001450	1	Bracket, Bulkhead	
	21	3004285	1	Pad, Left Side Floor Panel	
	22	3004286	1	Pad, Right Side Floor Panel	
	23	3004287	1	Pad, Center Panel	
	24	452004	4	Flat Washer, 1/4	
	25	3001974	1	Bin, Utility	
	26	3001924	1	Pin, Bin Pivot	
	27	3002098	1	Latch, Swell	
	28	3002112	2	Nut, Cap	
	29	3005428	1	Cover, Switch	
	30	303567	1	Grommet	
	31	403912	3	Screw, #10-24 x 5/8" Truss Head	
	32	444782	3	Nut, #10-24 Hex	
	33	452002	3	Flat Washer, #10	
	34	3007826	1	Cover, Steering Tower	
	35	403771	4	Screw, #8-32 x 1/2" Vibra Tite	
	36	400106	4	Screw, 1/4-20 x 5/8" Hex Head	
	37	446130	4	Lockwasher, 1/4 Heavy	
	38	453023	4	Flat Washer, 1/4	

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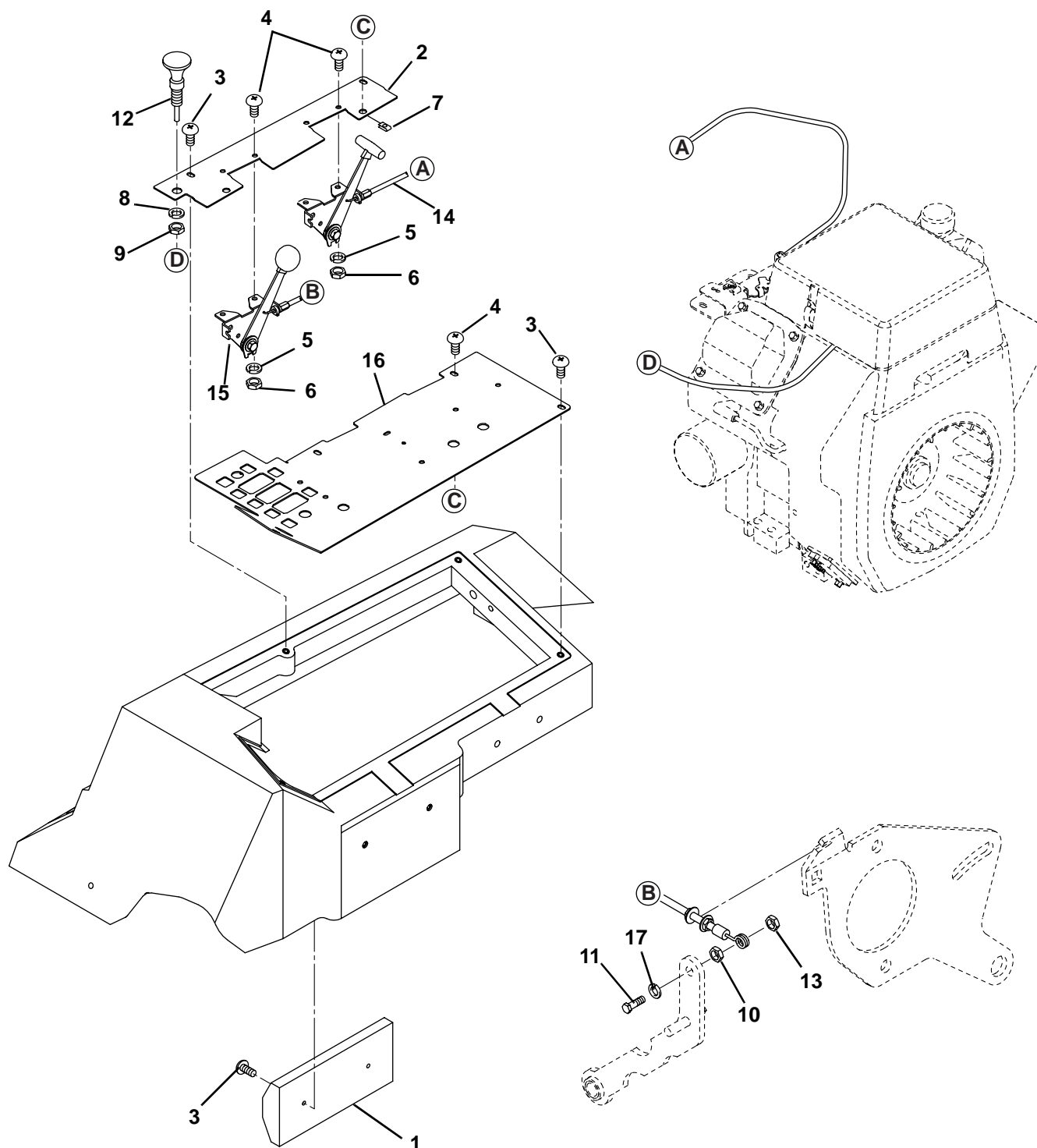
5.1 Instrument Panel



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	338601	1	10 Amp Circuit Breaker	
2	338551	2	6 Amp Circuit Breaker	
3	3001375	2	Spitch, SPDT	
	5003490	2	• Mounting Bezel	
4	363961	1	Switch, Toggle	Diesel Units Only
5	363962	1	Boot, Toggle Switch	Diesel Units Only
6	364646	1	Plug, Panel	Gas Units Only
7	3001307	6	Relay, SPDT	Gas Units
7	3001307	4	Relay, SPDT	Diesel Units
8	3001780	1	Switch, PTO	
9	366932	1	Plug, Panel Switch	
10	3004328	1	Instrument Panel	
11	3002056	1	Mow Switch	
12	364774	3	Boot, Circuit Breaker	
13	1004316	1	Switch, Ignition	
14	558015	1	• Key, Ignition Switch	
15	558037	2	• Nut, 13/16-20 Black Nylon Face	
16	409951	1	• Screw, #8-32 x 3/8" Truss Head	
17	3002091	2	Spacer, Mow Switch	
18	403910	5	Screw, #10-24 x 1/2" Truss Head	Gas Units
18	403910	4	Screw, #10-24 x 1/2" Truss Head	Diesel Units
19	446116	5	Lockwasher, #10	Gas Units
19	446116	4	Lockwasher, #10	Diesel Units
20	444310	5	Nut, #10-24 Hex	Gas Units
20	444310	4	Nut, #10-24 Hex	Diesel Units
21	402018	2	Screw, #6-32 x 1-1/2" Slotted Head	
22	453005	2	Flat Washer, #6	
23	446106	2	Lockwasher, #6 Heavy	
24	444304	2	Nut, #6-32 Hex	
25	3002144	1	Plate, Backup	

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6.1 Gas Control Console



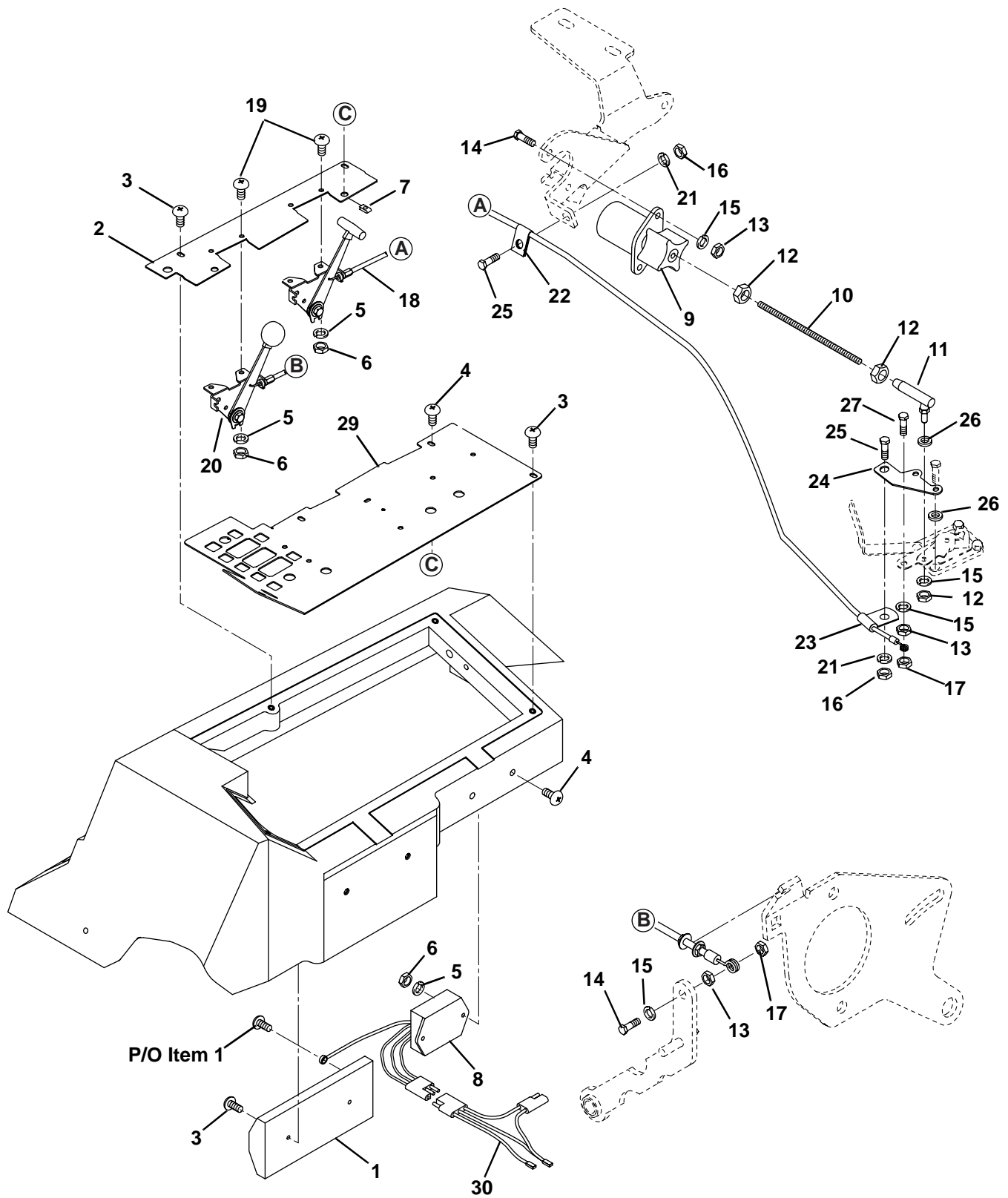
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3002141	1	Center Light	
2	3004329	1	Panel, Mechanical Instrument	
3	403771	6	Screw, #8-32 x 1/2" Vibra-Tite	
4	403910	6	Screw, #10-24 x 1/2" Truss Head	
5	446116	4	Lockwasher, #10	
6	444310	4	Nut, #10-24 Hex	
7	445207	2	Speed Nut, #10-24	
8	446142	1	Lockwasher, 3/8 Heavy	
9	443112	1	Nut, 3/8-24 Hex	
10	443102	1	Nut, 1/4-20 Hex	
11	400108	1	Screw, 1/4-20 x 3/4" Hex Head	
12	1000373	1	Cable, Choke Control	
13	444708	1	Locknut, 1/4-20 Center	
14	1000374	1	Cable, Throttle	
15	1000375	1	Cable, Mow/Transport	
16	-	1	Instrument Panel	See 5.1
> 17	446130	1	Lockwasher, 1/4 Heavy	

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GREENS KING V

7.1 Diesel Control Console

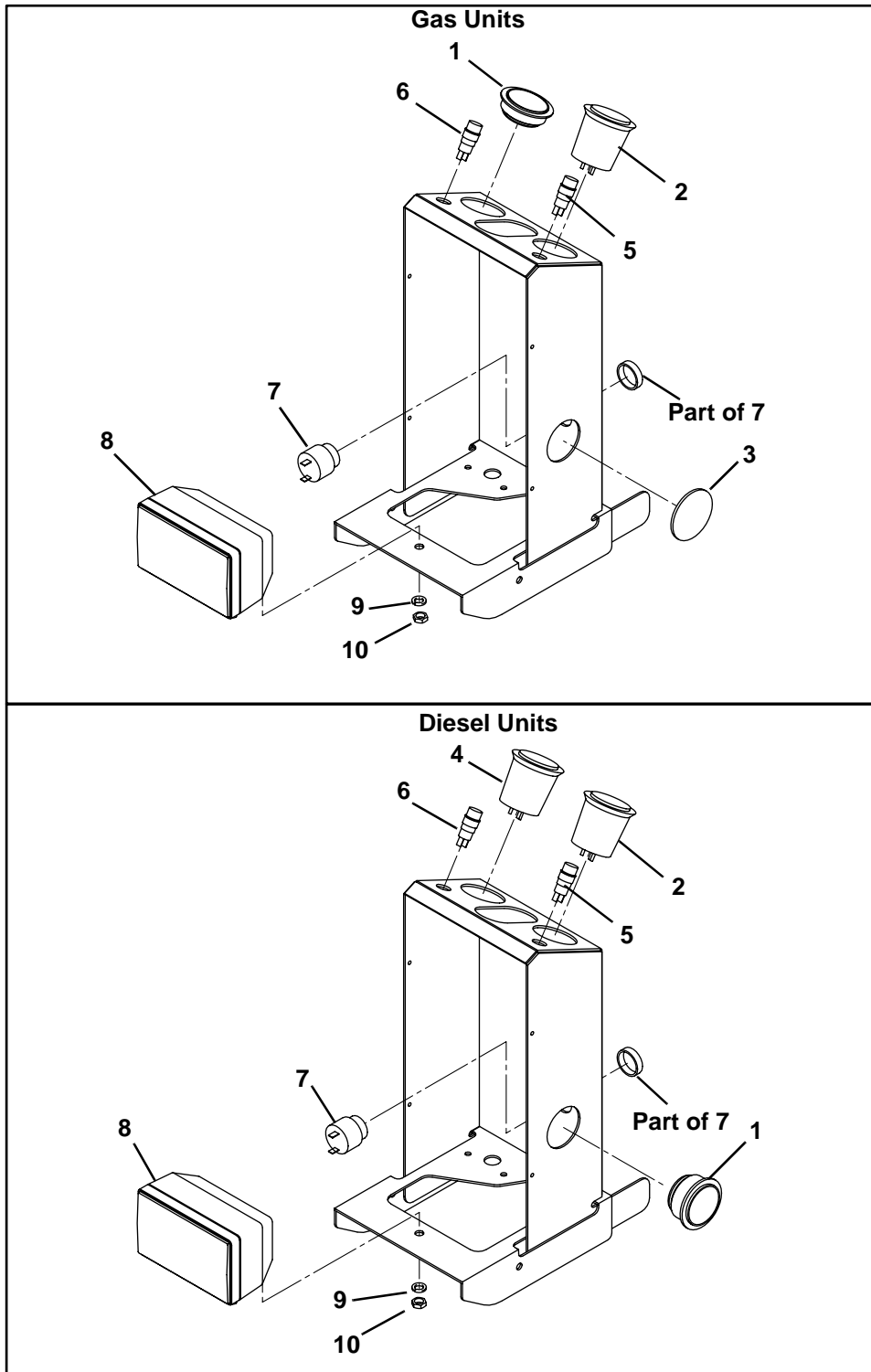
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3002141	1	Center Light	
2	3004329	1	Panel, Mechanical Instrument	
3	403771	6	Screw, #8-32 x 1/2" Vibra-Tite	
4	403910	4	Screw, #10-24 x 1/2" Truss Head	
5	446116	6	Lockwasher, #10	
6	444310	6	Nut, #10-24 Hex	
7	445207	2	Speed Nut, #10-24	
8	363969	1	Seat Time Delay Module	
9	338289	1	Solenoid, Fuel	
10	367191	1	Rod, 1/4-28 x 6-1/4" Threaded	
11	162478	1	Ball Joint, 1/4-28	
12	443104	3	Nut, 1/4-28 Hex	
13	443102	4	Nut, 1/4-20 Hex	
14	400108	3	Screw, 1/4-20 x 3/4" Hex Head	
> 15	446130	5	Lockwasher, 1/4 Heavy	
16	443110	2	Nut, 3/8-16 Hex	
17	444708	2	Locknut, 1/4-20 Center	
18	1001014	1	Cable, Throttle	
19	403912	4	Screw, #10-24 x 5/8" Truss Head	
20	1000375	1	Cable, Mow/Transport	
21	446140	2	Lockwasher, 3/8 Heavy	
22	324887	1	Clamp, Throttle Cable	
23	360934	1	Clamp, Throttle Cable	
24	3004151	1	Bracket, Cable Clamp	
25	400260	2	Screw, 3/8-16 x 7/8" Hex Head	
26	453023	2	Flat Washer, 1/4	
27	400112	1	Screw, 1/4-20 x 1" Hex Head	
28	473144	1	Tie, Nylon (Not Shown)	Throttle Cable to Air Intake Hose
29	-	1	Instrument Panel	See 5.1
30	1001313	1	Wire Harness, Time Delay Relay	

> Change from previous revision

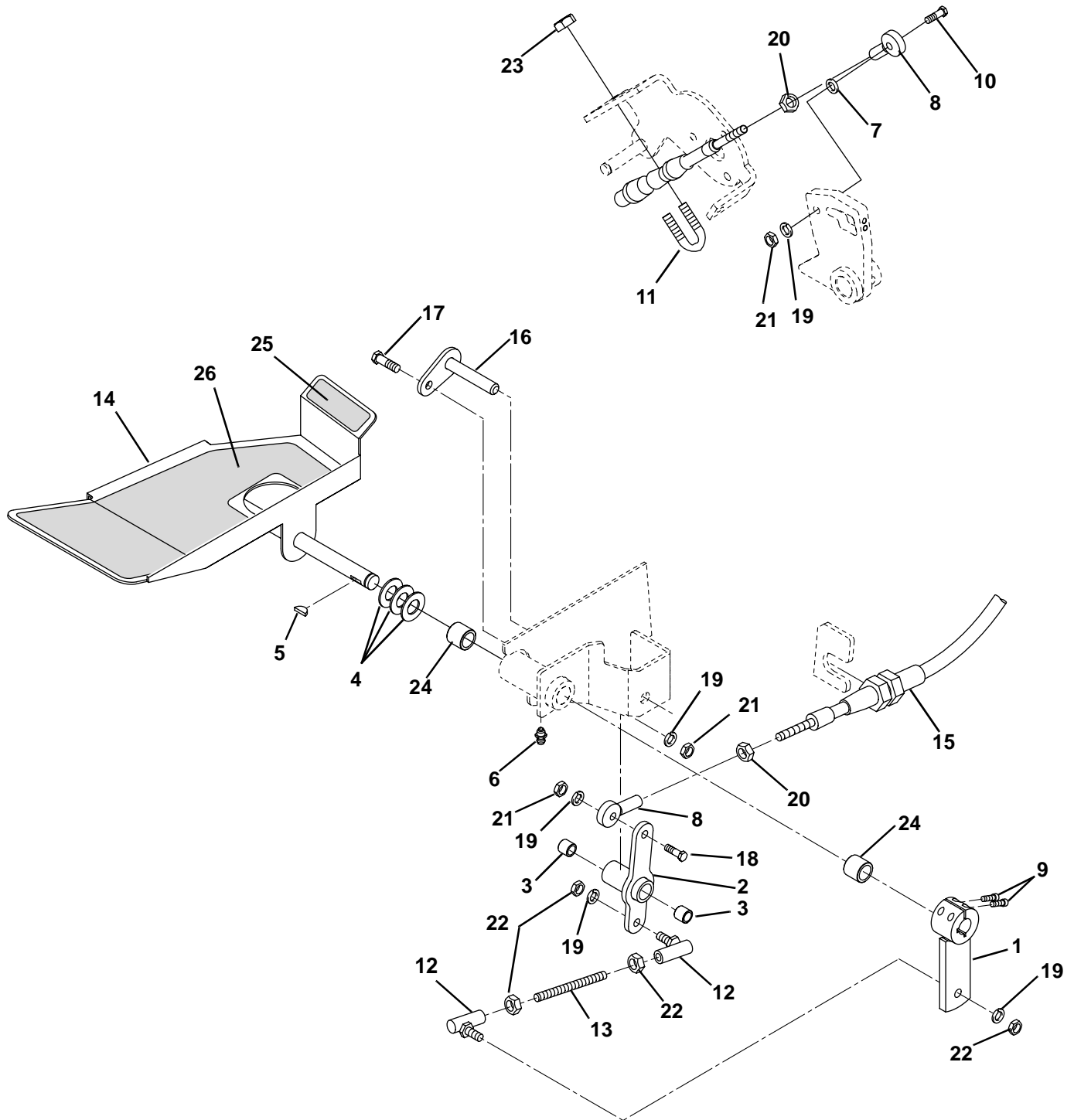
8.1 Steering Tower Gauges



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	162723	1	Hour Meter	
	447006	1	• Lockwasher, #10 External Tooth	
	444310	1	• Nut, #10-32 Hex	
2	162721	1	Volt Meter	
	447002	3	• Lockwasher, #6 External Tooth	
	444304	3	• Nut, #6-32 Hex	
	447206	2	• Lockwasher, #8 Internal Tooth	
	444306	2	• Nut, #8-32 Hex	
3	366403	1	Plug	Gas Units Only
4	162720	1	Temperature Gauge	Diesel Units Only
	447002	3	• Lockwasher, #6 External Tooth	Diesel Units Only
	444304	3	• Nut, #6-32 Hex	Diesel Units Only
	447206	2	• Lockwasher, #8 Internal Tooth	Diesel Units Only
	444306	2	• Nut, #8-32 Hex	Diesel Units Only
5	158501	1	Light, Engine Oil Warning (Red)	
6	366751	1	Light, Hydraulic Oil Warning (Yellow)	
7	366670	1	Horn	
8	1004776	1	Headlight	
	5003623	1	• Bracket, Mounting	
	5000527	1	• Bulb, Replacement	
9	446142	1	Lockwasher, 3/8 Heavy	
10	443110	2	Nut, 3/8-16 Hex	

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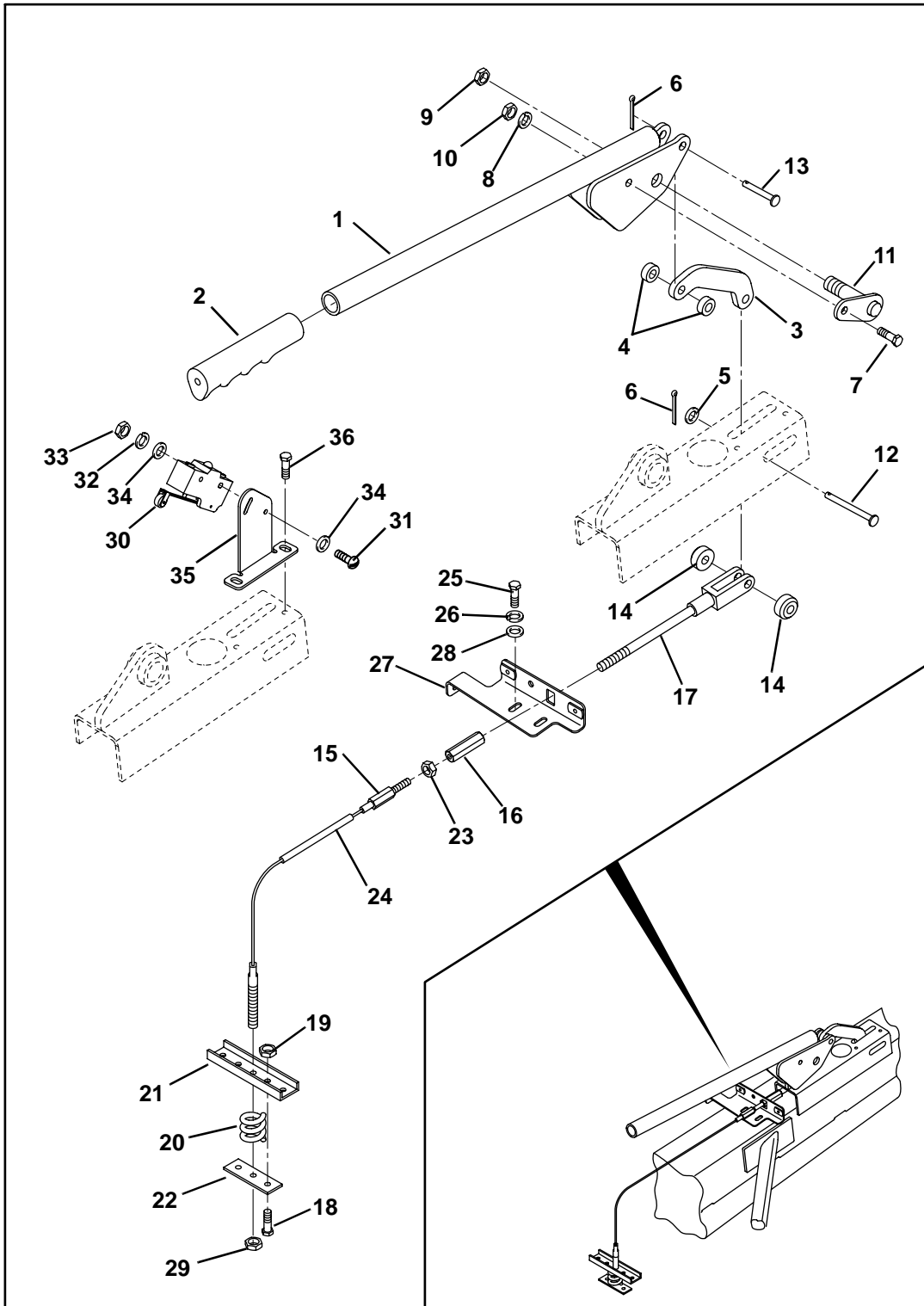
9.1 Traction Pedal Linkage



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003381	1	Pedal Arm	
2	132924	1	Lever, Pivot	
3	361108	2	• Bushing	
4	302405	AR	Washer	
5	463003	1	Woodruff Key	
6	471214	1	Grease Fitting	
7	345625	1	Spacer	
8	364235	2	Rod End	
9	434044	2	Screw, #8-32 x 1/2" Socket Head	
10	400116	1	Screw, 1/4-20 x 1-1/2" Hex Head	
11	362744	1	U-Bolt	
12	326111	2	Ball Joint	
13	3000853	1	Threaded Rod, 1/4-28 x 2-3/4"	
14	1001023	1	Pedal, Traction	
15	3000268	1	Cable, Traction	(REFERENCE L, See 39.1)
16	1000353	1	Pin, Lever Pivot	
17	400108	1	Screw, 1/4-20 x 3/4" Hex Head	
18	400112	1	Screw, 1/4-20 x 1" Hex Head	
19	446130	5	Lockwasher, 1/4 Heavy	
20	443804	2	Nut, 1/4-28 Hex Jam	
21	443102	3	Nut, 1/4-20 Hex	
22	443104	4	Nut, 1/4-28 Hex	
23	444718	2	Locknut, 5/16-18 Center	
24	REF	2	Bushing, Traction Pedal Pivot	See 4.1
25	3002041	1	Pad, Heel	
26	3000926	1	Pad, Traction Pedal	

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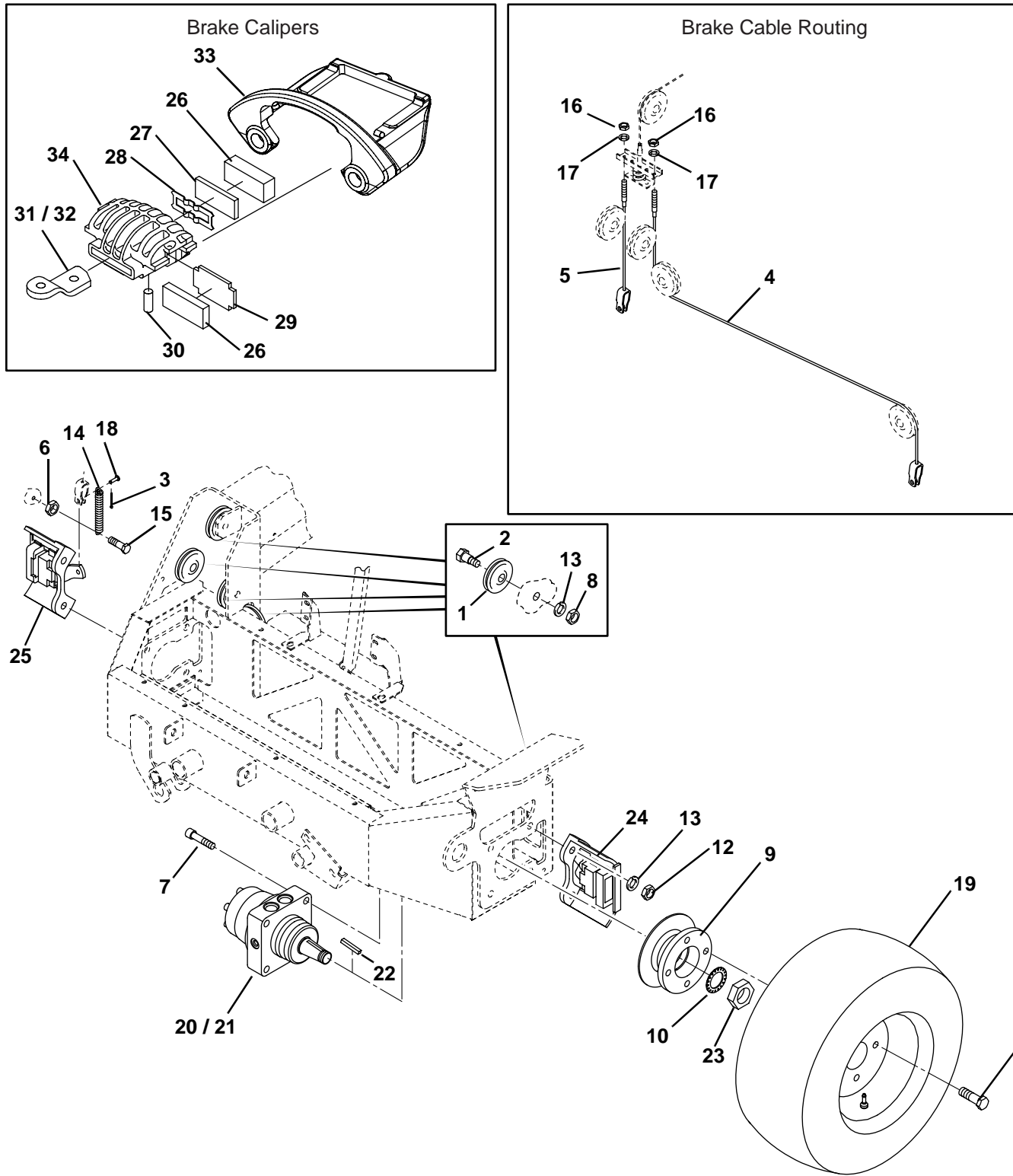
10.1 Parking Brake



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000462	1	Parking Brake Lever	
2	345689	1	Grip, Brake	
3	3001005	1	Link, Handbrake	
4	364528	2	Spacer	
5	453009	1	Flat Washer, 5/16	
6	460010	2	Cotter Pin, 3/32 x 1/2"	
7	400118	1	Screw, 1/4-20 x 1-3/4" Hex Head	
8	446128	1	Lockwasher, 1/4	
9	444816	1	Locknut, 1/2-20 Flex Lock	
10	443102	1	Nut, 1/4-20 Hex	
11	1000465	1	Retaining Pin	
12	461498	1	Clevis Pin, 5/16 x 2-3/8"	
13	461456	1	Clevis Pin, 5/16 x 1-5/8"	
14	3002530	2	Bushing	
15	3001068	1	Cable, Brake (Upper)	
16	3001017	1	Coupling, Turnbuckle	
17	3001334	1	Yoke. L.H. Threaded	
18	400124	2	Screw, 1/4-20 x 2-1/2" Hex Head	
19	444708	2	Locknut, 1/4-20 Center	
20	3001512	1	Spring, Compression	
21	3001009	1	Bar, Equalizer	
22	3001511	1	Bar, Spring Pre-Load	
23	443108	1	Nut, 5/16-24 Hex	
24	3004551	1	Conduit	
25	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
26	446130	2	Lockwasher, 1/4 Heavy	
27	1001941	1	Bracket, Console Mounting	
28	452004	2	Flat Washer, 1/4	
29	444754	1	Locknut, 5/16-24 Center	
30	3006282	1	Switch, SPDT Normally Closed	
31	402016	2	Screw, #6-32 x 1-1/4" Slotted Head	
32	446106	2	Lockwasher, #6 Heavy	
33	444304	2	Nut, #6-32 Hex	
34	453005	4	Flatwasher, #6	
35	3002125	1	Bracket, Switch	
36	409804	2	Screw, #10-24 x 1/2" Thread Cutting	

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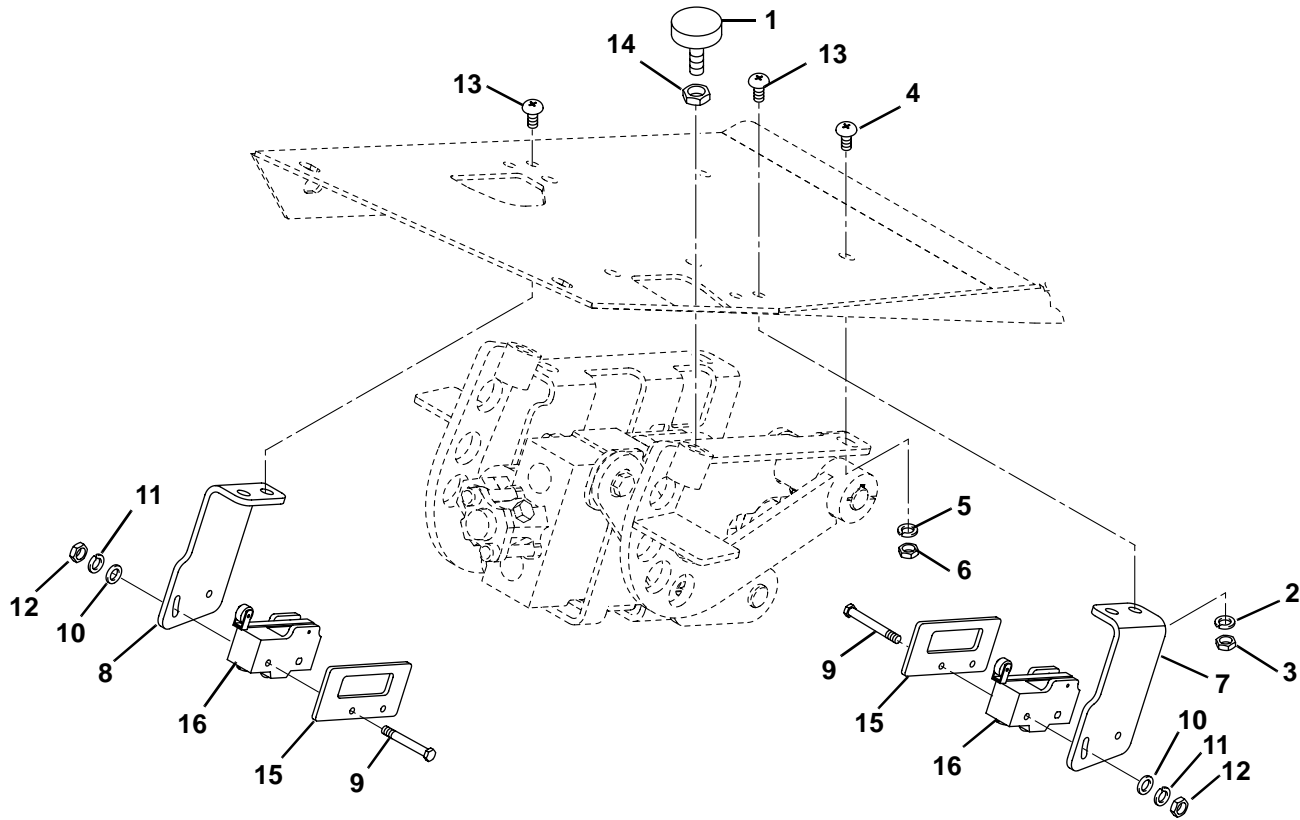
11.1 Front Wheel Motors and Brakes



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	338383	5	Pulley, Brake Cable	
2	367588	5	Bolt, Shoulder	
3	460012	2	Cotter Pin, 3/32 x 5/8"	
4	3001067	1	Cable, Left Side Brake (Lower)	
5	3001066	1	Cable, Right Side Brake (Lower)	
6	443102	2	Nut, 1/4-20 Hex	
7	434039	8	Screw, 1/2-13 x 2-3/4 Socket Head	
8	443818	5	Nut, 1/2-13 Hex Jam	
9	2000089	2	Hub, Wheel	
10	447030	2	Lockwasher, 1" External Tooth	
11	353914	8	Bolt, Wheel	
12	443118	8	Nut, 1/2-13 Hex	
13	446154	13	Lockwasher, 1/2 Heavy	
14	3001071	2	Spring, Extension	
15	400110	2	Screw, 1/4-20 x 1" Hex Head	
16	443104	2	Nut, 1/4-28 Hex	
17	446128	2	Lockwasher, 1/4	
18	461453	2	Clevis Pin, 5/16 x 1"	
19	-	2	Wheel and Tire	See 48.1
20	1001252	1	Motor, Left Front Wheel	See 46.1
21	1001253	1	Motor, Right Front Wheel	See 46.1
22	5001640	2	• Key	
23	5001639	2	• Nut	
24	117186	1	Caliper, Left Side Brake	Includes 26 ~ 31 and 33 ~ 34
25	117185	1	Caliper, Right Side Brake	Includes 26 ~ 30 and 32 ~ 34
26	530660	1	• Brake Pad Set Replacement Kit	
27	557826	2	• Pad Support	
28	557825	2	• Spring, Cam Retainer	
29	557824	2	• Pad, Support	
30	557823	2	• Pivot Pin	
31	557827	1	• Cam, Left Side	117186 Only
32	557822	1	• Cam, Right Side	117185 Only
33	N/S	2	• Bracket, Caliper Mounting	
34	N/S	2	• Caliper Pad Housing	

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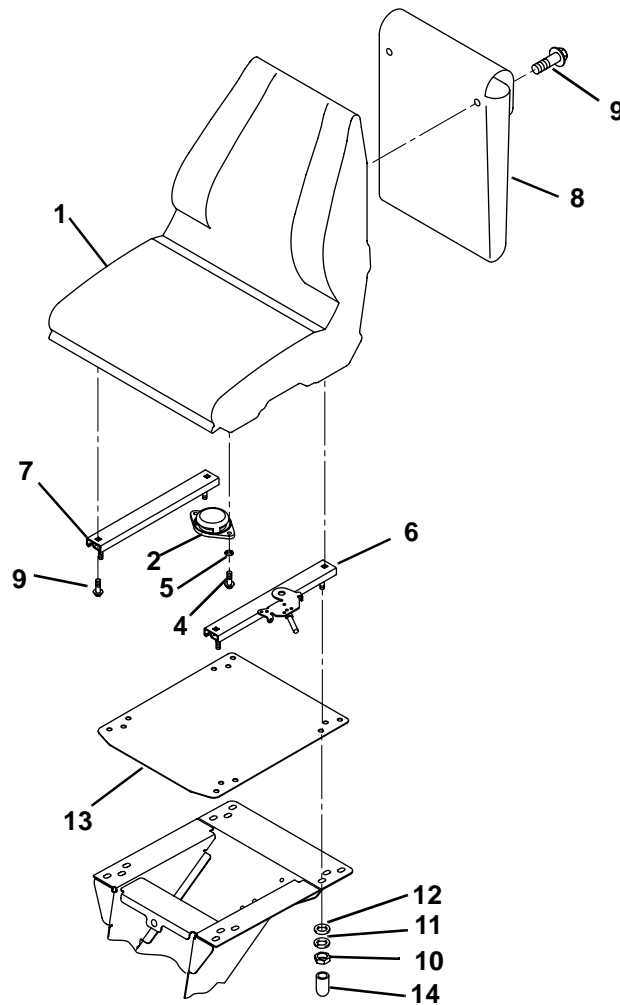
12.1 Lift / Mow Controls



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	361723	2	Rubber Pedal	
2	446130	4	Lockwasher, 1/4 Heavy	
3	443102	4	Nut, 1/4-20 hex	
4	404068	4	Screw, 5/16-18 x 3/4" Truss Head	
5	446136	4	Lockwasher, 5/16 Heavy	
6	443106	4	Nut, 5/16-18 Hex	
7	3000868	1	Bracket, Left Side Switch	
8	3000869	1	Bracket, Right Side Switch	
9	403773	4	Screw, #6-32 x 1-1/4" Hex Head	
10	453005	4	Flat Washer, #6	
11	446106	4	Lockwasher, #6 Heavy	
12	444304	4	Nut, #6-32 Hex	
13	404016	2	Screw, 1/4-20 x 5/8" Truss Head	
14	443810	2	Nut, 3/8-16 Hex Jam	
15	3002343	2	Stop, Switch	
16	3006282	2	Switch, SPDT	

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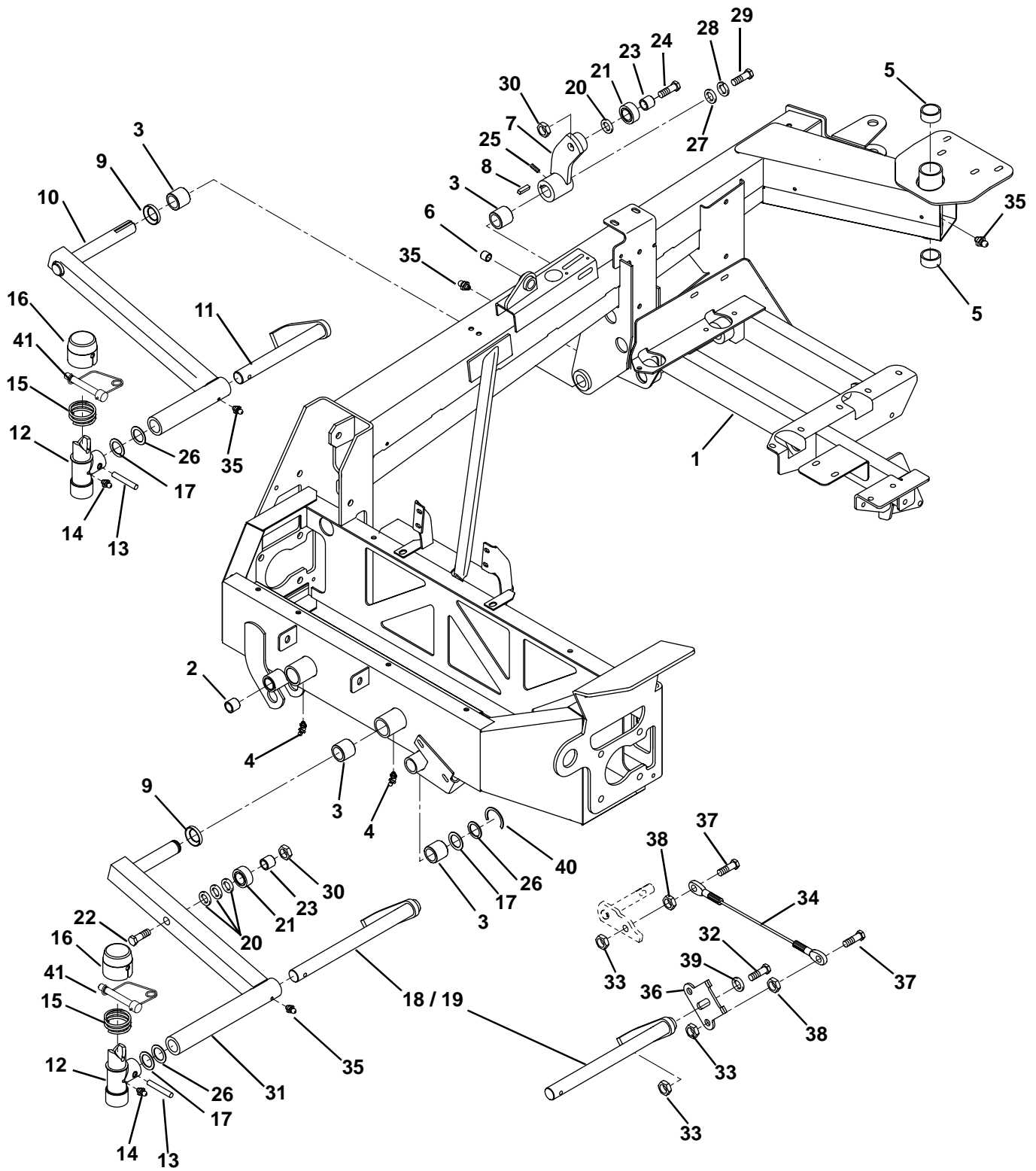
13.1 Seat



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	66172	1	Seat, Standard	
2	554390	1	• Seat Switch	
3	163583	1	• Harness, Switch (Not Shown)	
4	434011	2	• Screw, 1/4-20 x 5/8" Socket Head	
5	446130	2	• Lockwasher, 1/4 Heavy	
6	3006991	1	Adjuster, Latching	
7	3006988	1	Adjuster, Slave	
8	3003928	1	Literature Pouch	
9	3001328	6	Screw	
10	443106	6	Nut, 5/16-18 Hex	
11	446136	4	Lockwasher, 5/16 Heavy	
12	452006	4	Flat Washer, 5/16	
13	3002497	1	Seat Pan	
14	3005327	4	Cap, Rubber	

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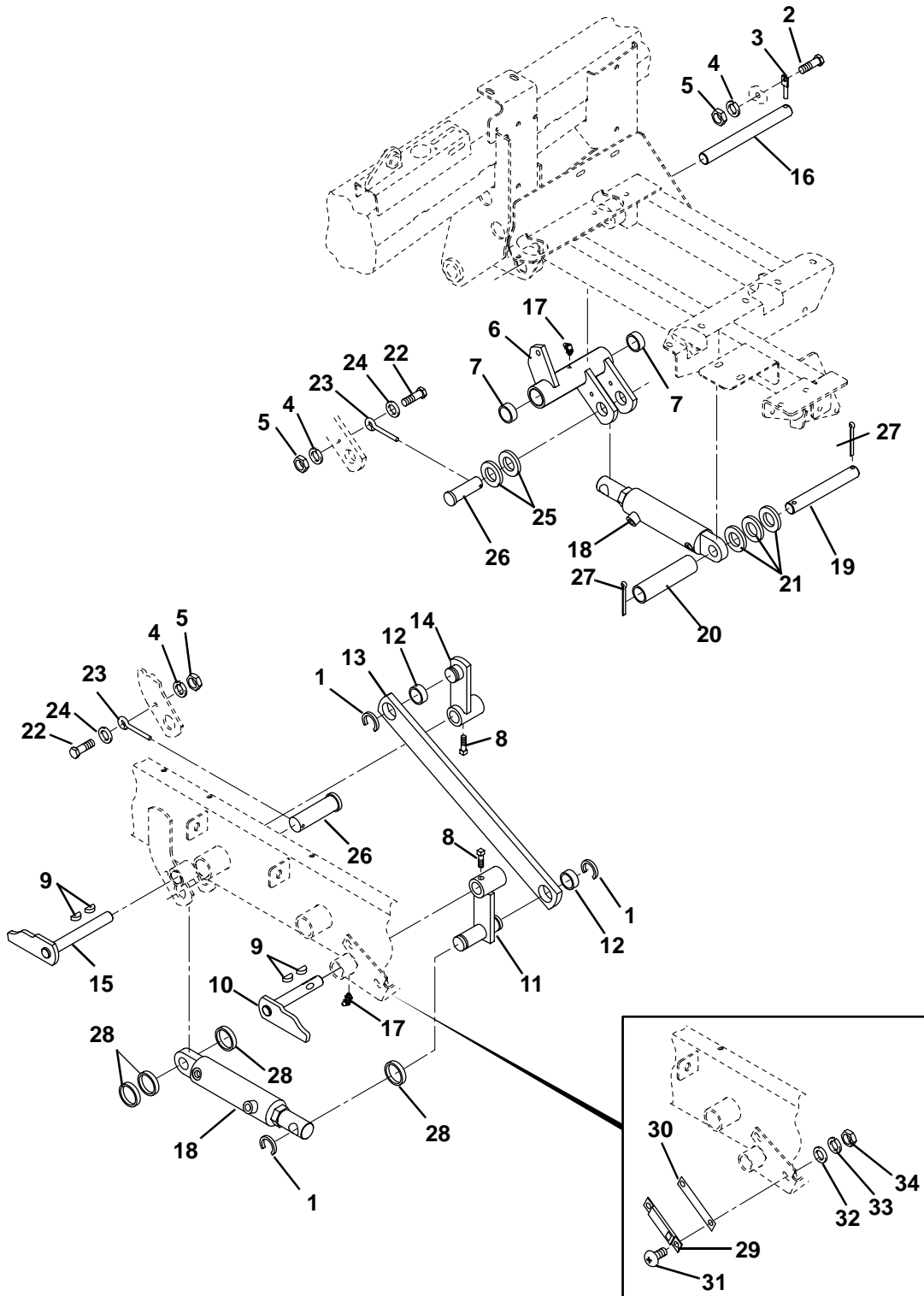
14.1 Frame and Lift Arms



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004043	1	Frame	
2	357999	4	• Bushing, Front Lift Cam	
3	3007694	6	• Bushing, Lift Arm	
4	471227	2	• Grease Fitting, 45°	
5	360460	2	• Bushing, Steering Tube	
6	328016	1	• Bushing, Parking Brake Pivot	
7	1000253	1	Roller Arm	
8	362320	1	Key	
9	367349	3	Thrust Washer	
10	1000252	1	Lift Arm, Center Mower	
11	1000416	1	Shaft Assembly, Center Mower	
12	5002569	3	Swivel Housing	
13	461336	1	• Pin, 5/16-1-1/2" Type "E" Groove	
14	471214	1	• Grease Fitting, Straight	
15	3004063	1	• Compression Spring	
16	3004870	1	• Swivel Housing Cover	
17	345699	AR	Washer	
18	1000451	1	Shaft Assembly, Front Left Mower	
19	163430	1	Shaft Assembly, Front Right Mower	
20	453020	7	Flat Washer, 5/8	
21	1004059	3	Roller, Cam	
22	400624	2	Screw, 5/8-11 x 3" Hex Head	
23	3009234	3	Spacer, Cam Roller	
24	400614	1	Screw, 5/8-11 x 1-3/4" Hex Head	
25	412014	1	Screw, 5/16-18 x 1/2" Set	
26	303629	AR	Washer	
27	367559	1	Washer, Flat	
28	446136	1	Lockwasher, 5/16 Heavy	
29	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
30	444752	3	Locknut, 5/8-11 Center	
31	1000459	2	Front Lift Arm	
32	400262	2	Screw, 3/8-16 x 1" Hex Head	
33	444762	6	Locknut, 3/8-16 Center	
34	3005636	2	Cable, Reel Tether	
35	471214	5	Grease Fitting, Straight	
36	3003667	2	Plate, Reel Tether	
37	400264	4	Screw, 3/8-16 x 1-1/4" Hex Head	
38	443810	4	Nut, 3/8-16 Hex Jam	
39	453011	2	Flat Washer, 3/8	
40	458433	2	Retaining Ring	
41	3005435	3	Pin, Spring Lock	

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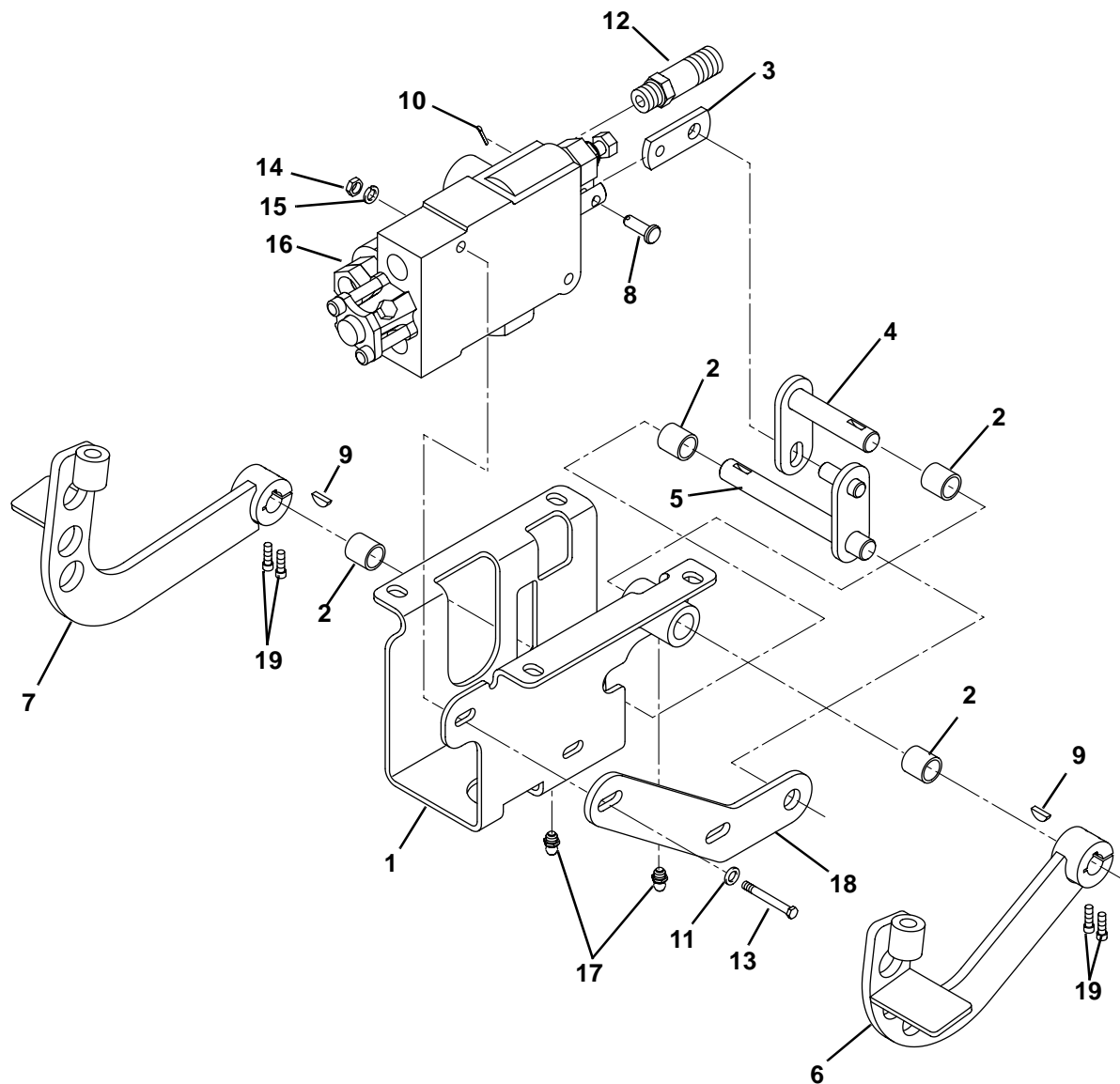
15.1 Lift Linkage



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	458433	3	Retaining Ring	
2	400106	1	Screw, 1/4-20 x 5/8" Hex Head	
3	357998	1	Retaining Pin	
4	446130	3	Lockwasher, 1/4 Heavy	
5	443102	3	Nut, 1/4-20 Hex	
6	1004439	1	Cam, Rear Mower Lift	
7	3007694	2	• Bushing	
8	412017	2	Screw, 5/16-18 x 3/4" Square Set	
9	463017	4	Woodruff Key, 3/16 x 3/4"	
10	1000328	1	Cam, Front Left Mower Lift	
11	131675	1	Lift Lever, Left Side	
12	350542	2	Bushing	
13	353927	1	Connecting Bar	
14	131498	1	Lift Lever, Right Side	
15	1000327	1	Cam, Front Right Mower Lift	
16	3000675	1	Pin, Rear Mower Cam Pivot	
17	471221	3	Grease Fitting, 90°	
18	131450	2	Lift Cylinder	See 49.1
19	3000654	1	Pin, Rear Cylinder Pivot	
20	3000655	1	Spacer, Long	
> 21	347985	3	Spacer	Replaces 3000656
22	400112	2	Screw, 1/4-20 x 1" Hex Head	
23	3007954	2	Retaining Pin	
24	453023	2	Flat Washer, 1/4	
25	455004	2	Flat Washer	
26	3005577	2	Pin, Cylinder	
27	460052	2	Cotter Pin, 3/16 x 1-1/2"	
28	366197	4	Spacer	
29	3007392	1	Proximity Switch	
30	3009193	AR	Shim	
31	403860	2	Screw, #8-32 x 5/8" Truss Head	
32	453004	2	Flat Washer, #8	
33	446110	2	Lockwasher, #8	
34	444306	2	Nut, #8-32 Hex	

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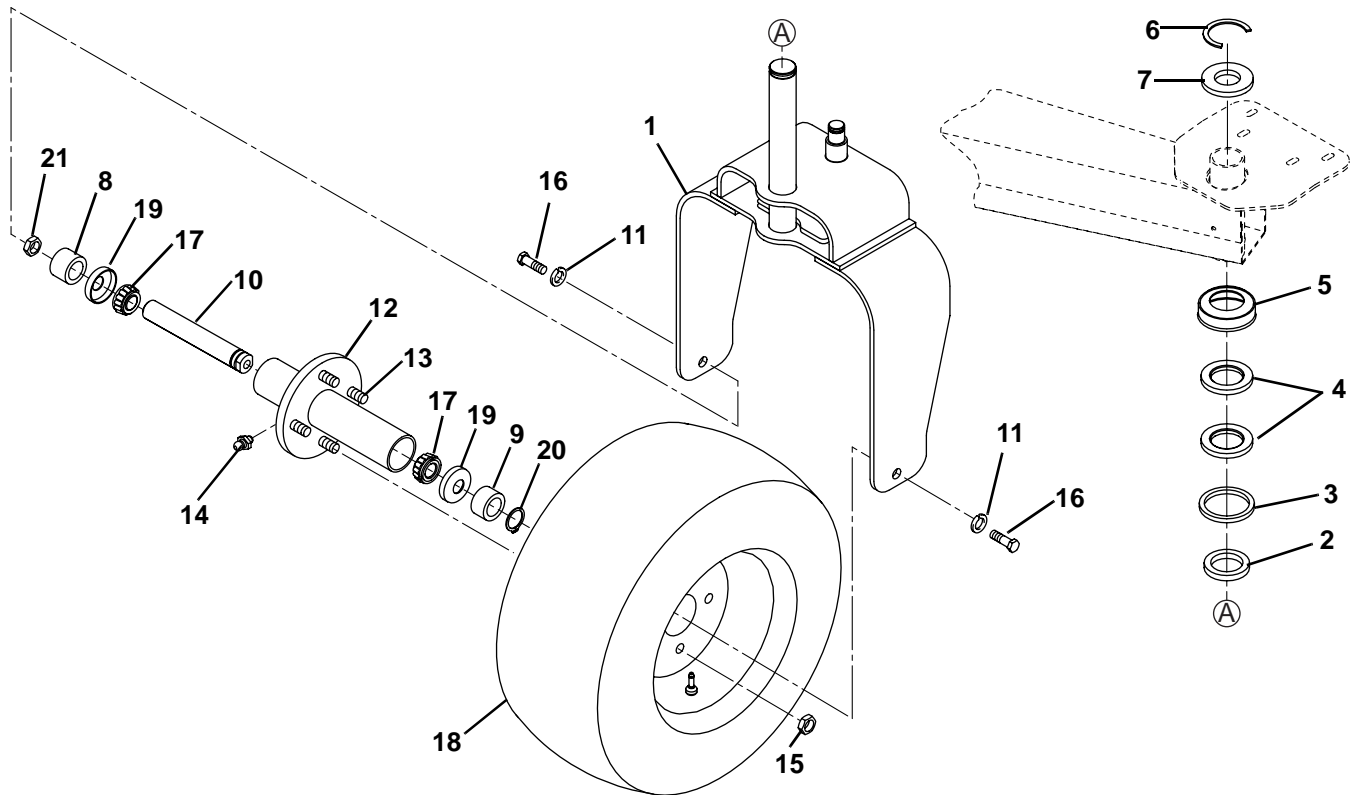
16.1 Lift Valve



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000330	1	Lift Valve Mounting Bracket	
2	328016	4	• Bushing	
3	3006413	1	Valve Link	
> 4	1002992	1	Lift Pedal Arm	
5	1002993	1	Mow Pedal Arm	
6	1003037	1	Lift Pedal	
7	1003036	1	Mow Pedal	
8	3006418	1	Pin, Clevis	
9	463003	2	Woodruff Key	
10	460002	1	Cotter Pin, 1/16 x 1/2"	
11	453023	2	Flat Washer, 1/4	
12	340005	1	Straight Adapter	
13	400122	2	Screw, 1/4-20 x 2-1/4" Hex Head	
14	443102	2	Nut, 1/4-20 Hex	
15	446130	2	Lockwasher, 1/4 heavy	
16	1003494	1	Lift Valve	
	5002899	1	• Detent Kit	
	503367	1	• Pilot Check Kit	
	5001677	1	• Relief Valve	
	5001633	1	• Seal Kit	
17	471214	2	Grease Fitting	
18	3006412	1	Plate, Shaft Support	
19	434044	4	Screw, #8-32 x 1/2" Socket Head	

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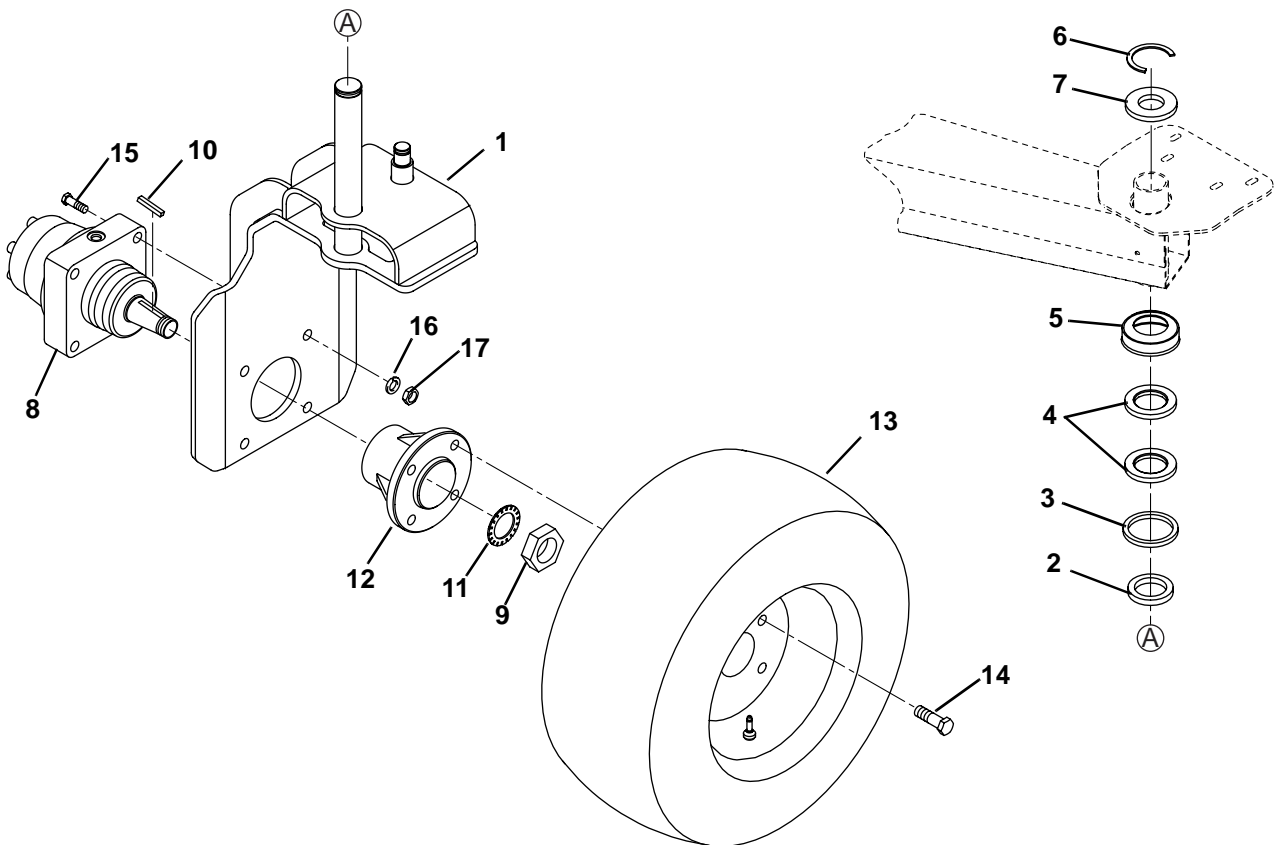
17.1 Steering Axle (2WD Units)



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123260	1	Steering Yoke	
2	367249	1	Collar	
3	345621	1	Seal, Steering Shaft	
4	3003360	2	Thrust Washer	
5	3003361	1	Cup, Thrust Bearing	
6	458466	1	Retaining Ring	
7	346748	AR	Washer	
8	3000658	1	Spacer, Long Yoke	
9	3000659	1	Spacer, Short Yoke	
10	3000328	1	Axle, Rear Wheel	
11	446154	2	Lockwasher, 1/2 Heavy	
12	1003668	1	Hub	Includes Cup Portion of Item 17
13	549730	4	• Wheel Bolt	
14	471217	1	• Grease Fitting, Staight	
15	354807	4	• Nut, Wheel	
16	400442	2	Screw, 1/2-20 x 1-1/2" Hex Head	
17	500596	2	Bearing, Cup and Cone	
18	-	1	Wheel and Tire	See 48.1
19	360680	2	Nylos Ring	
20	458039	1	Retaining Ring, External	
21	445790	1	Nut, 1-14 Hex Nylock Jam	

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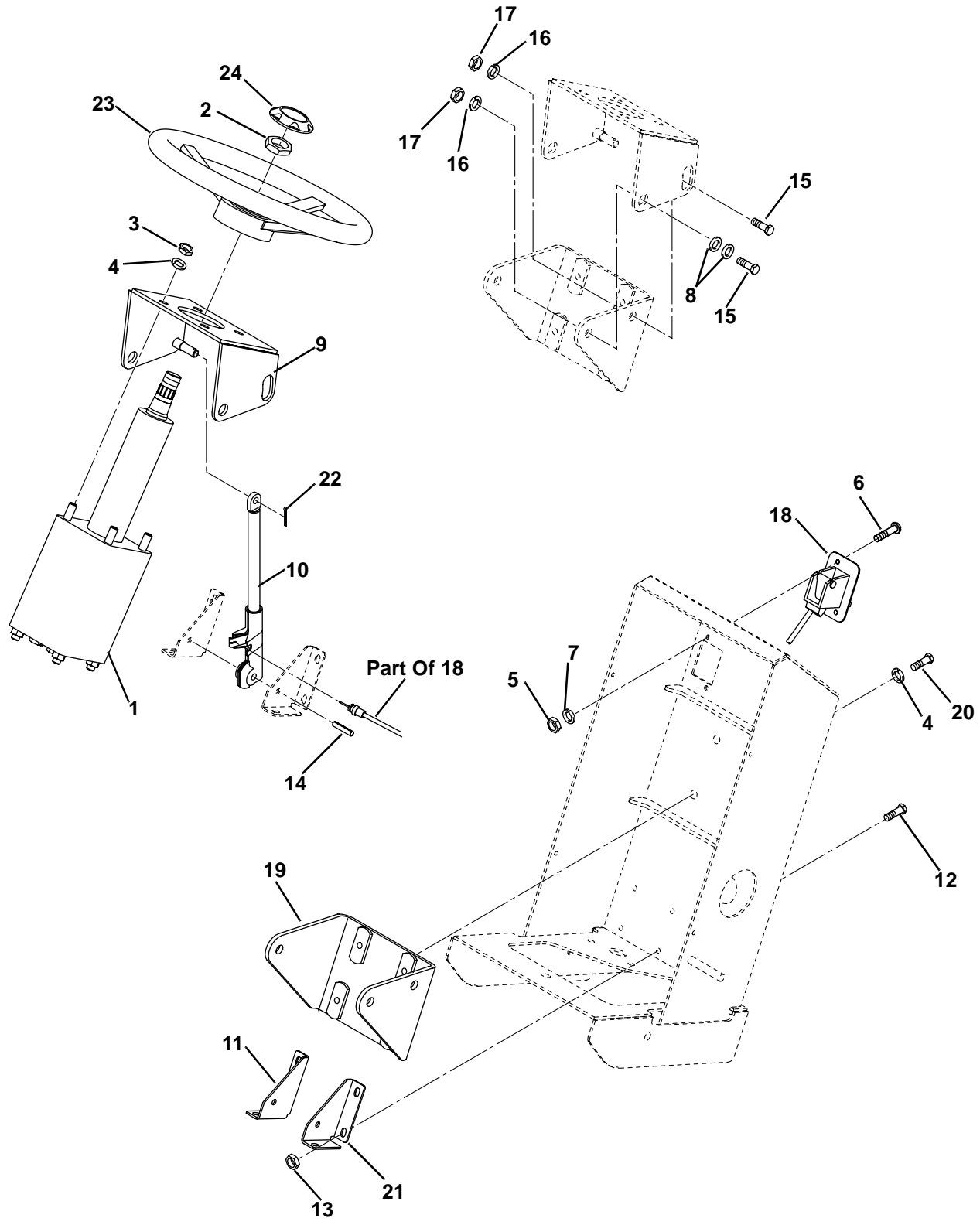
18.1 Steering Axle (3WD Units)



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1002036	1	Steering Yoke	
2	367249	1	Collar	
3	345621	1	Seal, Steering Shaft	
4	3003360	2	Thrust Washer	
5	3003361	1	Cup, Thrust Bearing	
6	458466	1	Retaining Ring	
7	346748	AR	Washer	
8	1001252	1	Wheel Motor	See 46.1
9	5001639	1	• Nut	
10	5001640	1	• Key	
11	447030	1	Lockwasher, 1" External Tooth	
12	220290	1	Hub, Rear Wheel	
13	-	1	Wheel and Tire	See 48.1
14	353914	4	Bolt, Wheel	
15	434039	4	Screw, 1/2-13 x 2-3/4" Socket Head	
16	446154	4	Lockwasher, 1/2 Heavy	
17	443118	4	Nut, 1/2-13 Hex	

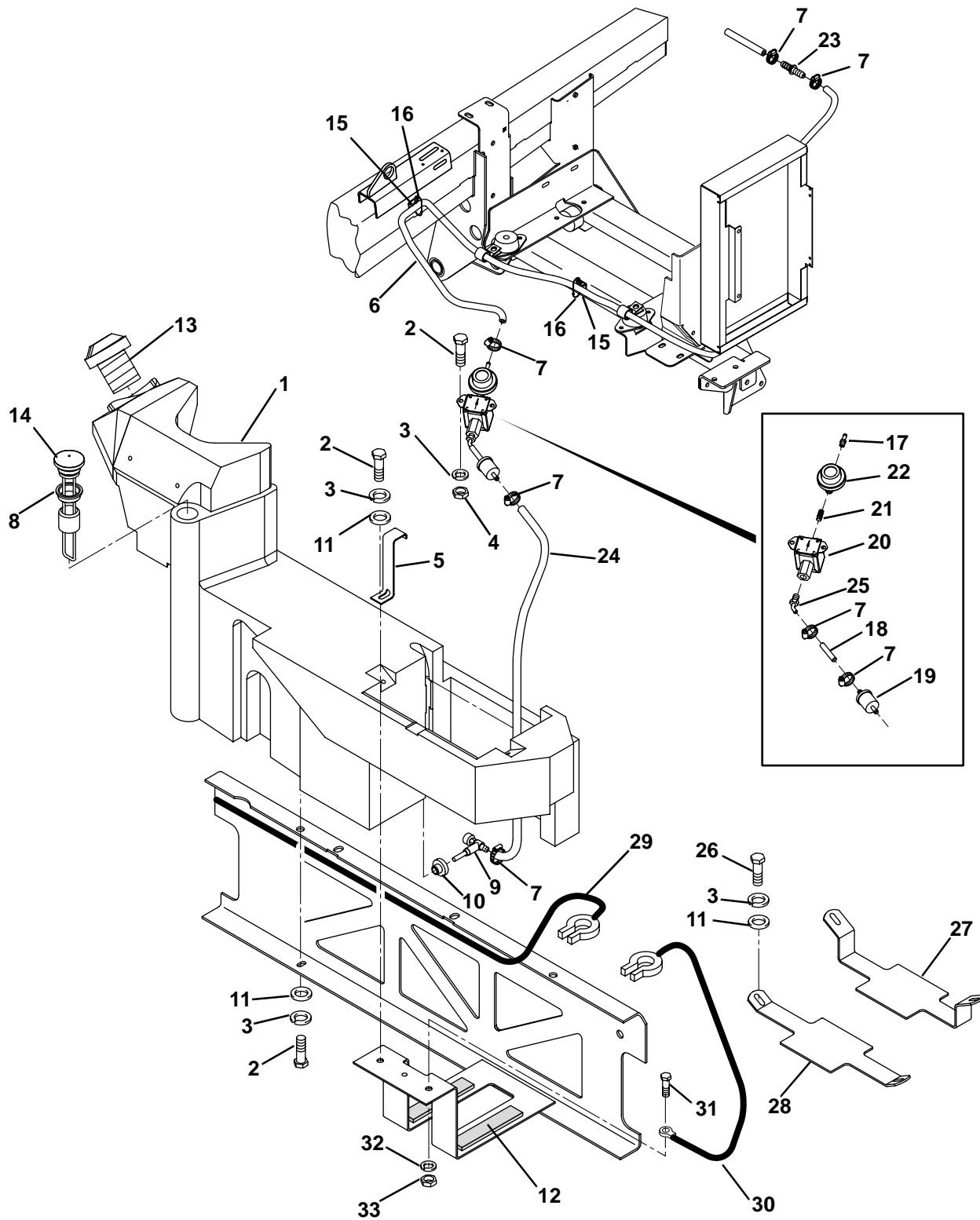
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19.1 Steering Tower



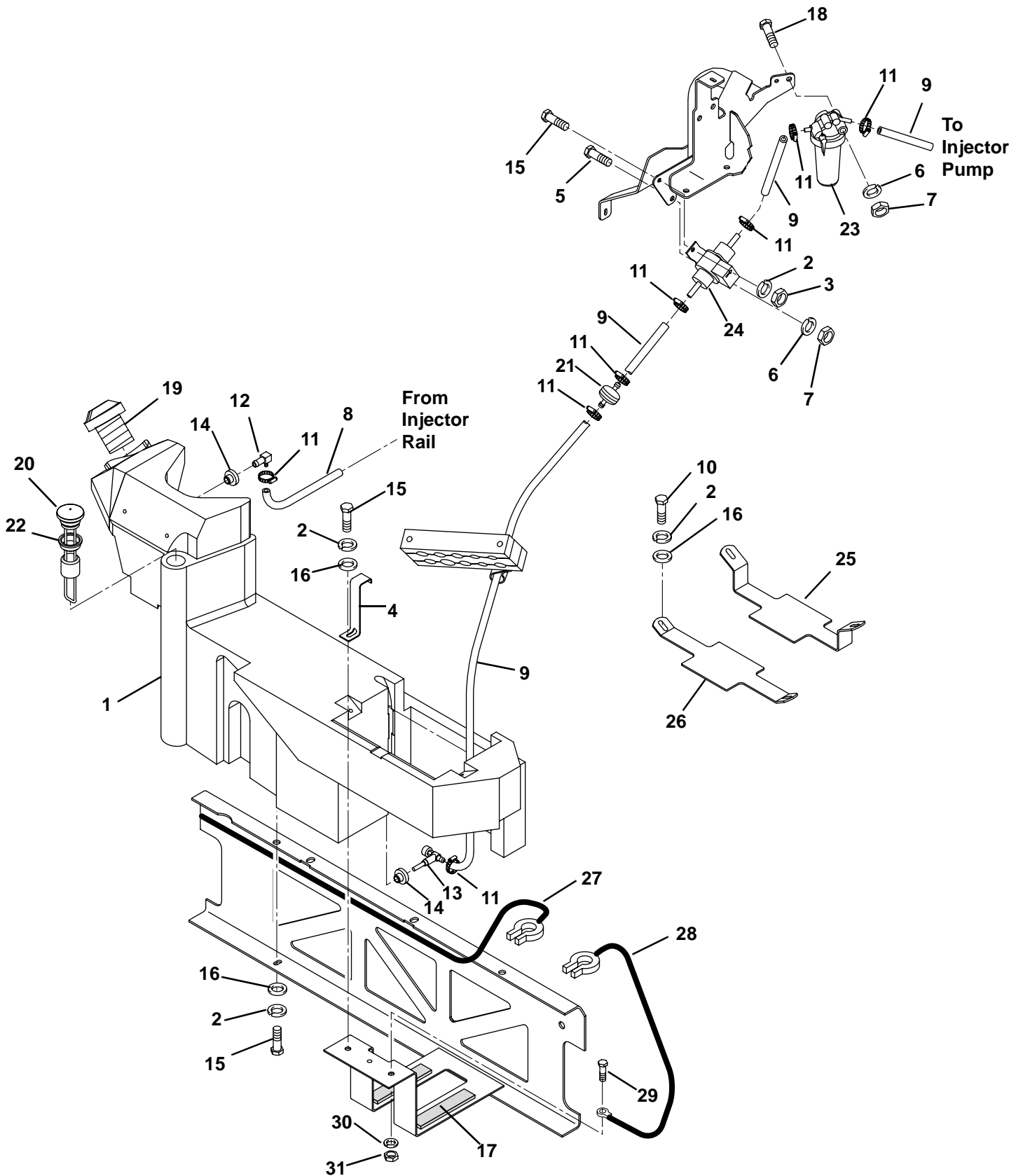
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132914	1	Steering Valve	See 47.1
2		1	• Nut	
3	443108	4	Nut, 5/16-24 Hex	
4	446136	8	Lockwasher, 5/16 Heavy	
5	444306	2	Nut, #8-32 Hex	
6	402458	2	Screw, #8-32 x 1/2" Flat Head	
7	446110	2	Lockwasher, #8	
8	366878	4	Plastic Washer	
9	1000449	1	Bracket, Tilt Steering	
10	3001602	1	Actuator, Locking Spring	
11	3002262	1	Bracket, Right Side Tlik Lock	
12	400108	6	Screw, 1/4-20 x 3/4" Hex Head	
13	445784	6	Nut, 1/4-20 Hex Whizlock	
14	461403	1	Roll Pin, 5/16 x 1-3/4"	
15	344996	3	Bolt, 3/8-16 Special	
16	446142	3	Lockwasher, 3/8 Heavy	
17	443110	3	Nut, 3/8-16 Hex	
18	3001891	1	Cable, Actuator Release	
19	132929	1	Bracket, Tower	
20	400184	5	Screw, 5/16-18 x 3/4" Hex Head	
21	3002263	1	Bracket, Tilt Lock	
22	460014	1	Cotter Pin, 3/32 x 3/4"	
23	557829	1	Steering Wheel	
24	557830	1	Steering Wheel Cap with Screw	

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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3008416	1	Tank, Fuel	
2	400108	4	Screw, 1/4-20 x 3/4" Hex Head	
3	446130	6	Lockwasher, 1/4 heavy	
4	443102	2	Nut, 1/4-20 Hex	
5	3002238	1	Hold Down, Fuel Tank	
6	554748	AR	Fuel Hose, 5/16 I.D. (Cut to 74")	
7	366526	8	Clamp, Hose	
8	5000869	1	Grommet, Fuel Guage	
9	132647	1	Valve, Fuel Shut Off	
10	361117	1	Bushing, Fuel Tank	
11	453023	4	Flat Washer, 1/4	
12	361174	2	Pad, Rubber	
13	338547	1	Cap, Fuel Tank	
14	3004142	1	Guage, Fuel	
15	1000228	3	Mount, Hose	
16	473142	3	Cable Tie, 3/16 x 16"	
17	362169	1	Adapter, Straight 1/8 NPTF	
18	554748	AR	Fuel Hose, 5/16 I.D. (Cut to 3")	
19	5000436	1	Fuel Filter	
20	1002659	1	Pump, Fuel	
21	471774	1	Adapter, Straight 1/8 NPT	
22	3005937	1	Regulator, Fuel (Set at 1.5)	
23	3005938	1	Adapter, Straight Barbed	
24	554748	AR	Fuel Hose 5/16 I.D. (Cut to 22")	
25	365976	1	Adapter, 90° 1/8 NPT	
26	400106	2	Screw, 1/4-20 x 5/8" Hex Head	
27	5001685	1	Strap, European Battery	
28	5001686	1	Strap, Domestic Battery	
29	340712	1	Positive Battery Cable	Battery to Starter Solenoid
30	131659	1	Negative Battery Cable	Battery to Frame
31	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
32	446136	1	Lockwasher, 5/16 Heavy	
33	443106	1	Nut, 5/16-18 Hex	

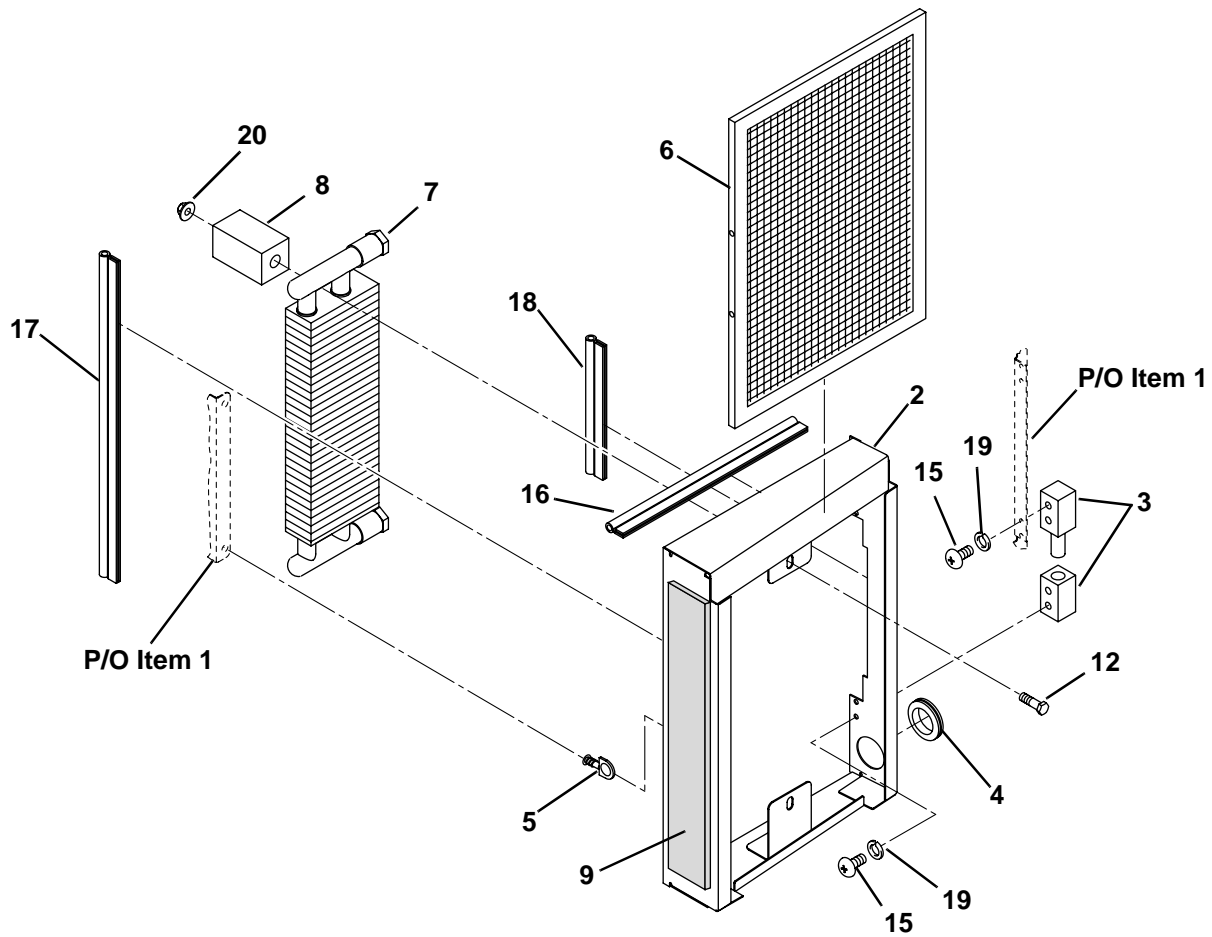
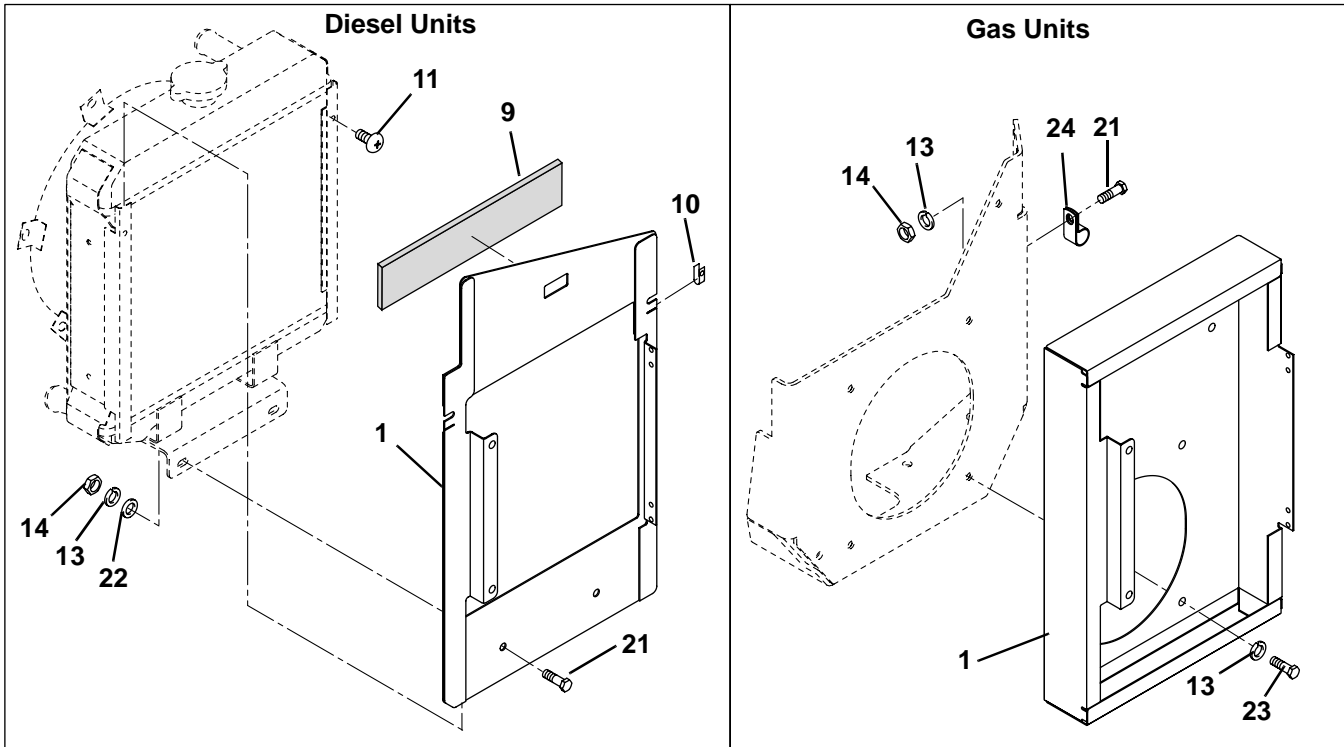
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3008415	1	Fuel Tank	
2	446130	5	Lockwasher, 1/4 Heavy	
3	443102	1	Nut, 1/4-20 Hex	
4	3002238	1	Hold Down, Tank	
5	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
6	446136	2	Lockwasher, 5/16 Heavy	
7	443106	2	Nut, 5/16-18 Hex	
8	554752	AR	Fuel Hose, 3/16 I.D.	
9	554748	AR	Fuel Hose, 5/16 I.D.	
10	400106	2	Screw, 1/4-20 x 5/8" Hex Head	
11	366526	10	Hose CLamp	
12	361748	1	Valve, Overflow	
13	132647	1	Fuel Shut-Off Valve	
14	361117	2	Bushing, Fuel Tank	
15	400108	3	Screw, 1/4-20 x 3/4" Hex Head	
16	453023	4	Flat Washer, 1/4	
17	361174	2	Pad, Rubber	
18	400216	1	Screw, 5/16-18 x 2-3/4" Hex head	
19	338547	1	Fuel Cap	
20	3004142	1	Fuel Guage	
21	554596	1	Fuel Filter	
22	5000869	1	Grommet, Fuel Guage	
23	5001190	1	Fuel Filter Element	See Engine Parts Manual
24	N/S	1	Fuel Pump	See Engine Parts Manual
25	5001685	1	Strap, European Battery	
26	5001686	1	Strap, Domestic Battery	
27	340712	1	Positive Battery Cable	Battery to Starter
28	131659	1	Negative Battery Cable	Battery to Frame
29	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
30	446136	1	Lockwasher, 5/16 Heavy	
31	443106	1	Nut, 5/16-18 Hex	

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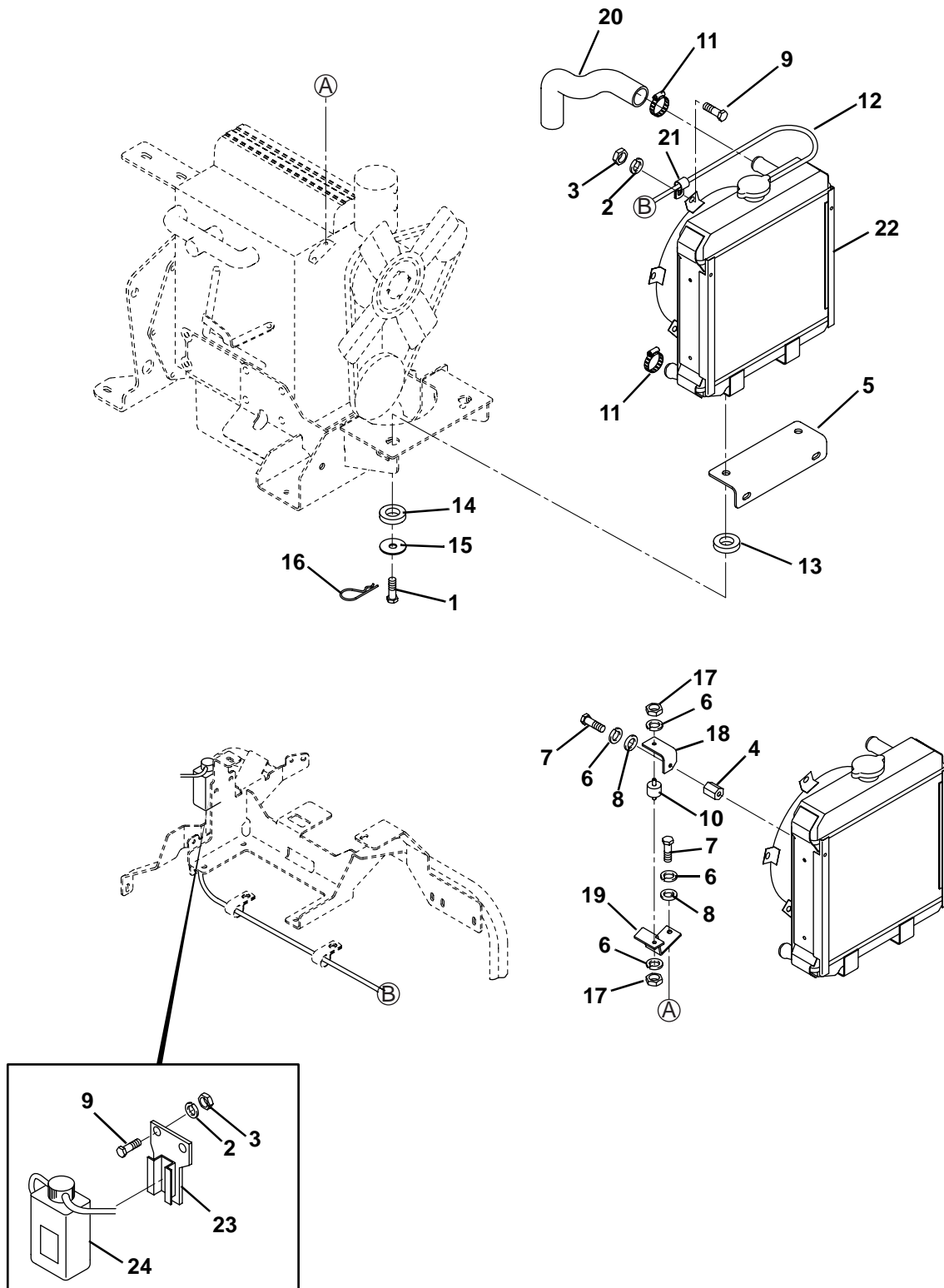
22.1 Air Duct and Oil Cooler



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1001701	1	Air Duct Flange	Gas Units
1	1001565	1	Air Duct Flange	Diesel Units
2	1001566	1	Air Duct Door	
3	366013	2	Hinge	
4	363848	2	Grommet	
5	3003446	2	Quick Panel Fastener	
6	3003511	1	Screen	
7	3002037	1	Oil Cooler	
8	358971	2	Mounting Block	
9	366535	2	Neoprene Pad	Diesel Units Only
10	445245	2	Tinnerman Nut, 1/4-20	Diesel Units Only
11	404014	2	Screw, 1/4-20 x 1/2" Truss Head	Diesel Units Only
12	400198	2	Screw, 5/16-18 x 2-1/4" Hex Head	
13	446136	5	Lockwasher, 5/16 Heavy	Gas Units
13	446136	2	Lockwasher, 5/16 Heavy	Diesel Units
14	443106	1	Nut, 5/16-18 Hex	Gas Units
14	443106	2	Nut, 5/16-18 Hex	Diesel Units
15	403776	8	Screw, #10-32 x 1/4" Truss Head	
16	3003512	2	Trim Seal, Top and Bottom	
17	3003513	1	Trim Seal, Left Side	
18	3003514	1	Trim Seal, Right Side	
19	447006	8	Lockwasher, #10 External Tooth	
20	445722	2	Nut, 5/16-18 Whiz Lock	
21	400184	1	Screw, 5/16-18 x 3/4" Hex Head	Gas Units
21	400184	2	Screw, 5/16-18 x 3/4" Hex Head	Diesel Units
22	453009	2	Flat Washer, 5/16	Diesel Units Only
23	400182	4	Screw, 5/16-18 x 5/8" Hex Head	Gas Units Only
24	360970	1	Hose Clamp	Gas Units Only

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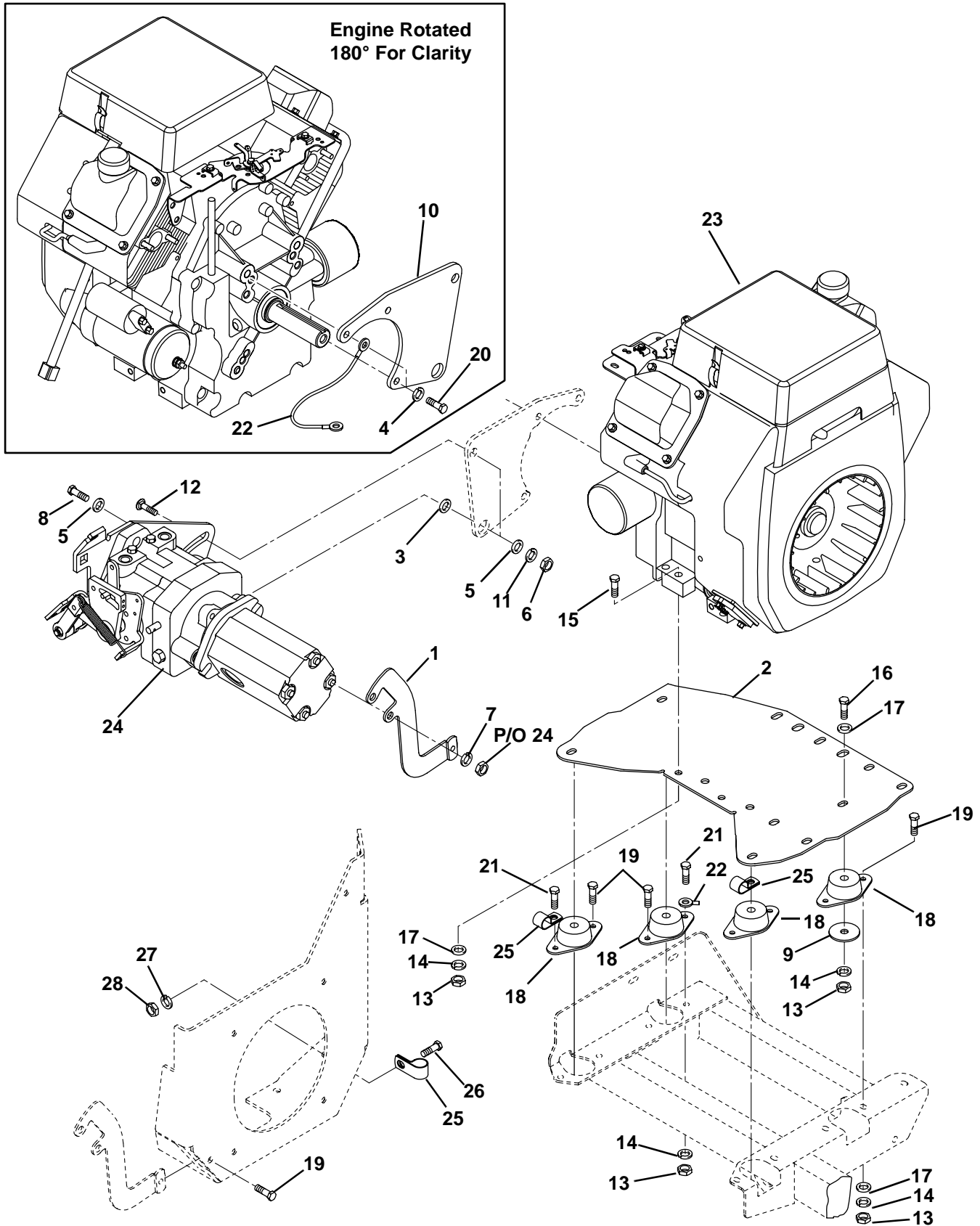
23.1 Radiator Diesel Units Only



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3006135	2	Screw, M10-1.25 x 40mm Hex Head	Refer to your Engine Parts Catalog for Service Parts
2	446136	3	Lockwasher, 5/16 Heavy	
3	443106	3	Nut, 5/16-18 Hex	
4	3004223	1	Spacer, Threaded	
5	3006066	1	Bracket, Door Mount	
6	446130	5	Lockwasher, 1/4 Heavy	
7	362535	3	Screw, M6-1 x 16mm Hex Head	
8	453023	3	Flat Washer, 1/4	
9	400184	3	Screw, 5/16-18 x 3/4" Hex Head	
10	3006127	1	Isomount, Radiator	
11	319914	4	Clamp, Hose	
12	3002622	1	Hose, Overflow	
13	3006131	2	Isomount, Bushing	
14	3006132	2	Isomount, Ring	
15	3006233	2	Washer, Isolator	
16	460335	2	Hair Pin	
17	443102	2	Nut, 1/4-20 Hex	
18	3006126	1	Bracket, Top Radiator Isomount	
19	3006098	1	Bracket, Isomount	
20	3006301	1	Cover, Top Radiator Hose	
21	360970	1	Clamp, Hose	
	REF	1	Engine	
22	-	1	• Radiator	
23	-	1	• Overflow Tank Mounting Bracket	
24	-	1	• Overflow Tank	

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24.1 Gas Engine Mounting



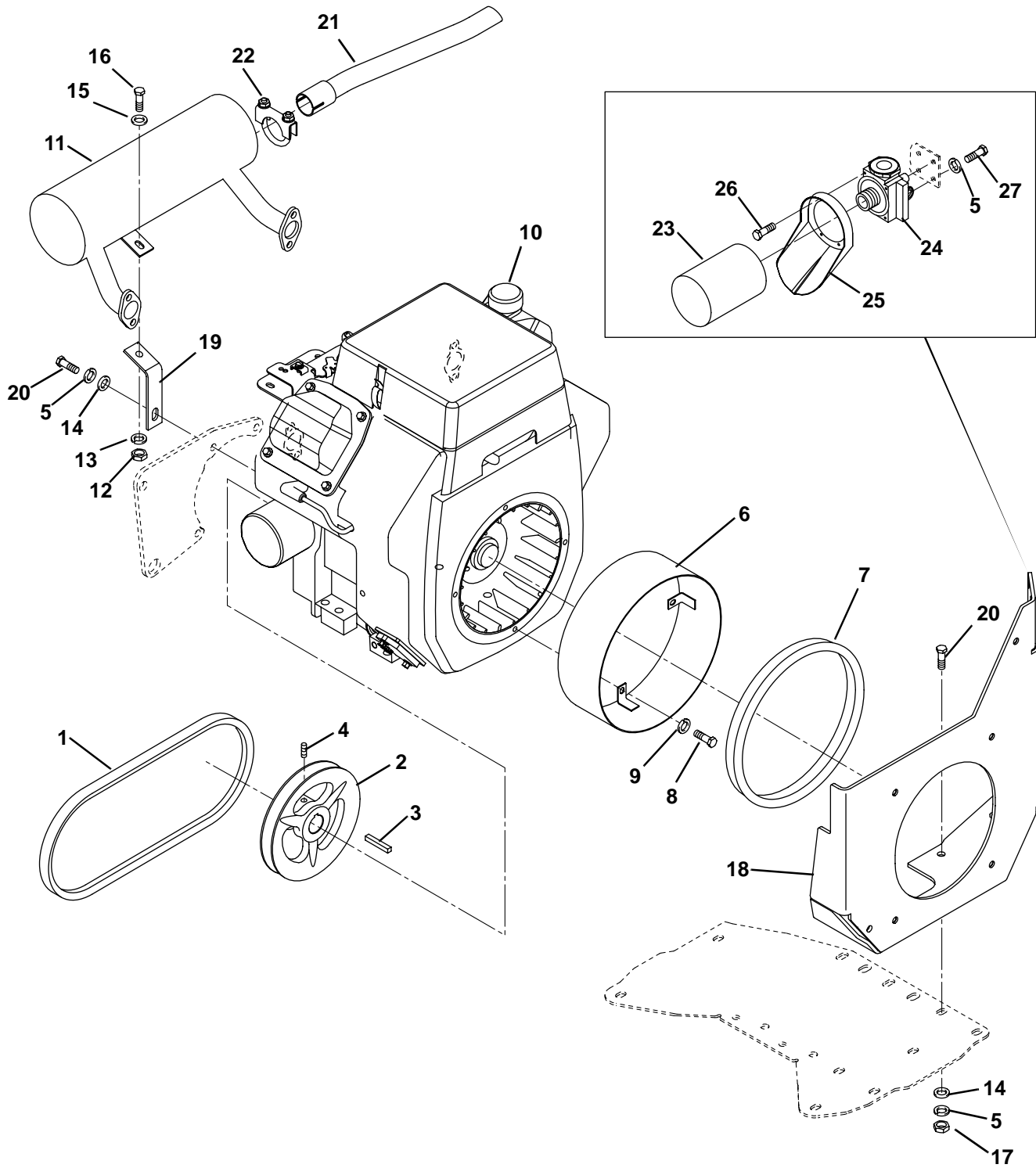
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003851	1	Pump Brace	
2	391201	1	Base, Gas Engine	
3	354417	1	Spacer	
4	446142	2	Lockwasher, 3/8 Heavy	
5	453017	3	Flat Washer, 1/2	
6	443118	2	Nut, 1/2-13 Hex	
7	447216	2	Lockwasher, 3/8 Internal Tooth	
8	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
9	367559	4	Washer, Isolator	
10	3001148	1	Mount, Pump	
11	446154	2	Lockwasher, 1/2 Heavy	
12	440192	1	Carriage Bolt, 1/2-13 x 1-1/4"	
13	443106	16	Nut, 5/16-18 Hex	
14	446136	16	Lockwasher, 5/16 Heavy	
15	400194	4	Screw, 5/16-18 x 1-3/4" Hex Head	
16	400198	4	Screw, 5/16-18 x 2-1/4" Hex Head	
17	453009	10	Flat Washer, 5/16	
18	367558	4	Isolation Mount	
19	400184	7	Screw, 5/16-18 x 3/4" Hex Head	
20	400262	2	Screw, 3/8-16 x 1" Hex Head	
21	400186	2	Screw, 5/16-18 x 7/8" Hex Head	
22	346006	1	Cable, Engine Gound	
23	–	1	Engine	See 25.1
24	–	1	Pump Assembly	See 28.1
25	345666	3	Clamp, Fuel Line	
26	400108	1	Screw, 1/4-20 x 3/4" Hex Head	
27	446130	1	Lockwasher, 1/4 Heavy	
28	443102	1	Nut, 1/4-20 hex	

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GREENS KING V

Serial No. All

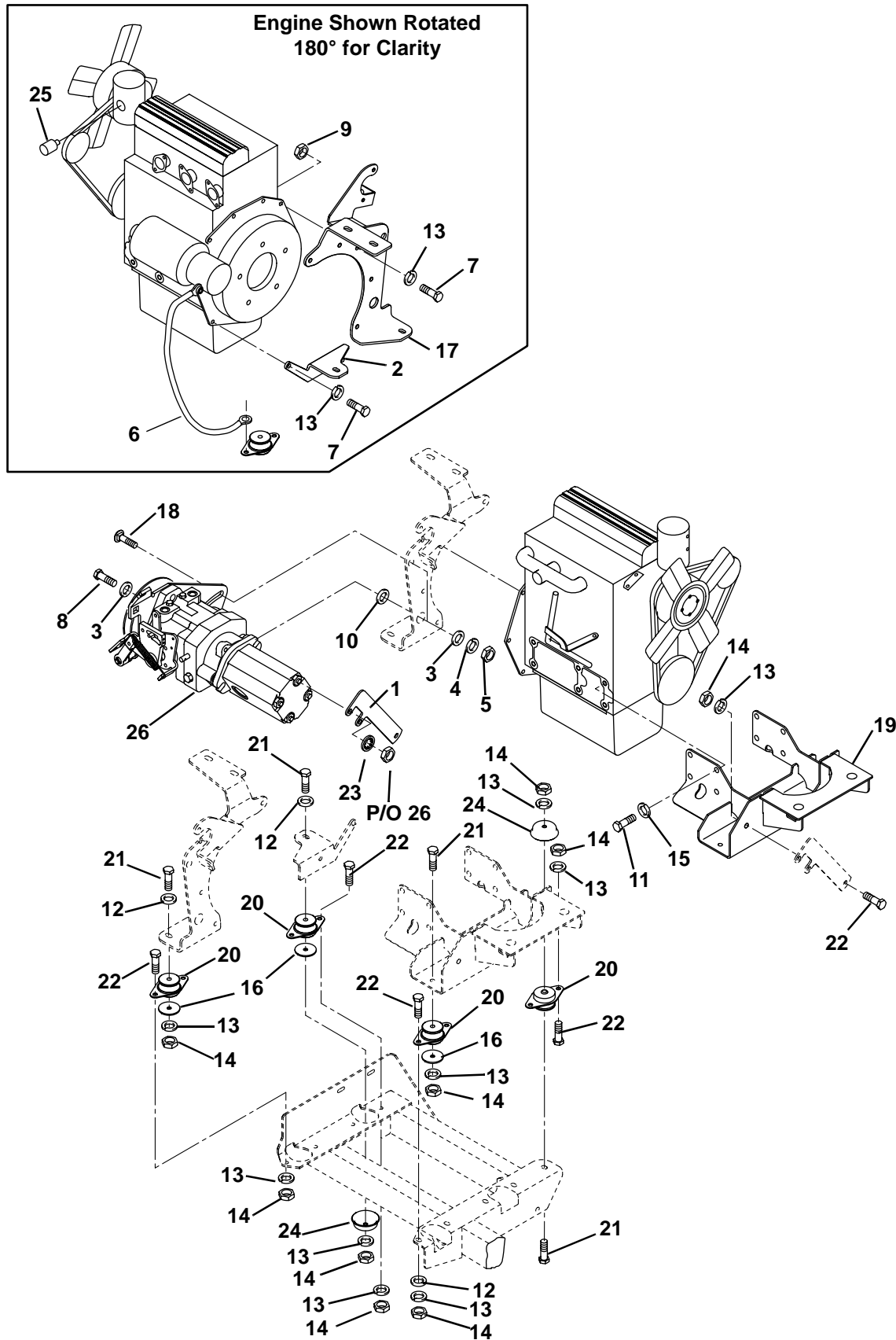
25.1 Gas Engine



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	336481	1	Belt, Pump Drive	
2	340654	1	Pulley, Gas Engine	
3	362320	1	Key	
4	415527	2	Set Screw, 5/16-18 x 3/4"	
5	446142	9	Lockwasher, 3/8 Heavy	
6	1001346	1	Duct, Engine	
7	3003255	1	Gasket, Duct	
8	3004280	4	Screw, M6-1 x 10mm Hex Head	
9	446130	4	Lockwasher, 1/4 Heavy	
10	1003551	1	Engine, Briggs 18 hp V-Twin OHV	
	5000441	1	• Engine Air Filter	
	5000440	1	• Engine Oil Filter	
	5000436	1	• Engine Fuel Filter	
11	391233	1	Muffler, Briggs	
12	443106	1	Nut, 5/16-18 Hex	
13	446136	1	Lockwasher, 5/16 Heavy	
14	453011	5	Flat Washer, 3/8	
15	453009	1	Flat Washer, 5/16	
16	400184	1	Screw, 5/16-18 x 3/4" hex Head	
17	443110	4	Nut, 3/8-16 Hex	
18	1003850	1	Support, Oil Cooler Door	
19	3003248	1	Brace, Muffler	
20	400262	5	Screw, 3/8-16 x 1" Hex head	
21	3004021	1	Tail Pipe, Briggs	
22	1002033	1	Clamp	
23	5000078	1	Hydraulic Oil Filter	
24	1001575	1	Filter Head	
	5000614	1	• Indicator Kit	
	5001434	1	• Indicator "O" Ring Kit	
25	3003261	1	Spout, Oil Drip	
26	409439	4	Screw, #4-40 x 3/8" Pan Head	
27	400260	4	Screw, 3/8-16 x 7/8" Hex Head	

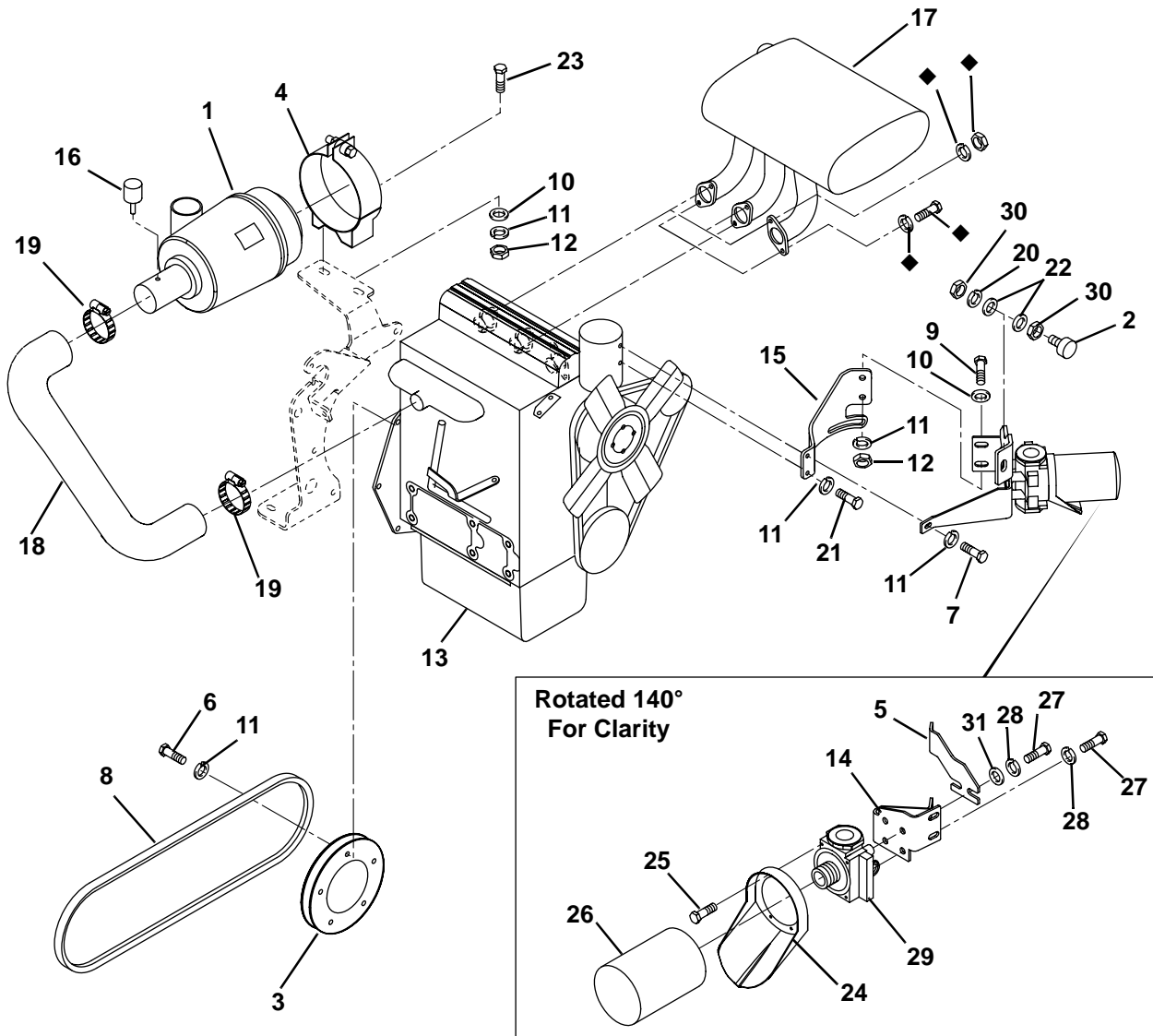
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26.1 Diesel Engine Mounting



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3002994	1	Brace, Pump	
2	3006267	1	Mount, Right Rear Engine	
3	453017	3	Flat Washer, 1/2	
4	446150	2	Lockwasher, 1/2	
5	443118	2	Nut, 1/2-13 Hex	
6	346006	1	Cable, Ground	
7	363586	7	Screw, M8-1.25 x 20mm Hex Head	
8	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
9	361606	2	Nut, M8-1.25 Hex	
10	354417	1	Spacer	
11	366884	8	Screw, M10-1.25 x 20mm Hex Head	
12	453009	4	Flat Washer, 5/16	
13	446136	20	Lockwasher, 5/16 Heavy	
14	443106	13	Nut, 5/16-18 Hex	
15	363485	8	Lockwasher, M10	
16	367559	3	Washer, Isolator	
17	3001150	1	Mount, Front Right Engine and Pump	
18	440192	1	Carriage Bolt, 1/2-13 x 1-1/4"	
19	1002825	1	Mount, Left Engine and Radiator	
20	3006143	4	Isolation Mount	
21	400198	4	Screw, 5/16-18 x 2-1/4" Hex Head	
22	400184	9	Screw, 5/16-18 x 3/4" Hex Head	
23	447216	2	Lockwasher, 3/8 Internal Tooth	
24	3005276	2	Washer, Isolator Cupped	
25	364501	1	Temperature Sender	
26	-	1	Pump Assembly	See 28.1

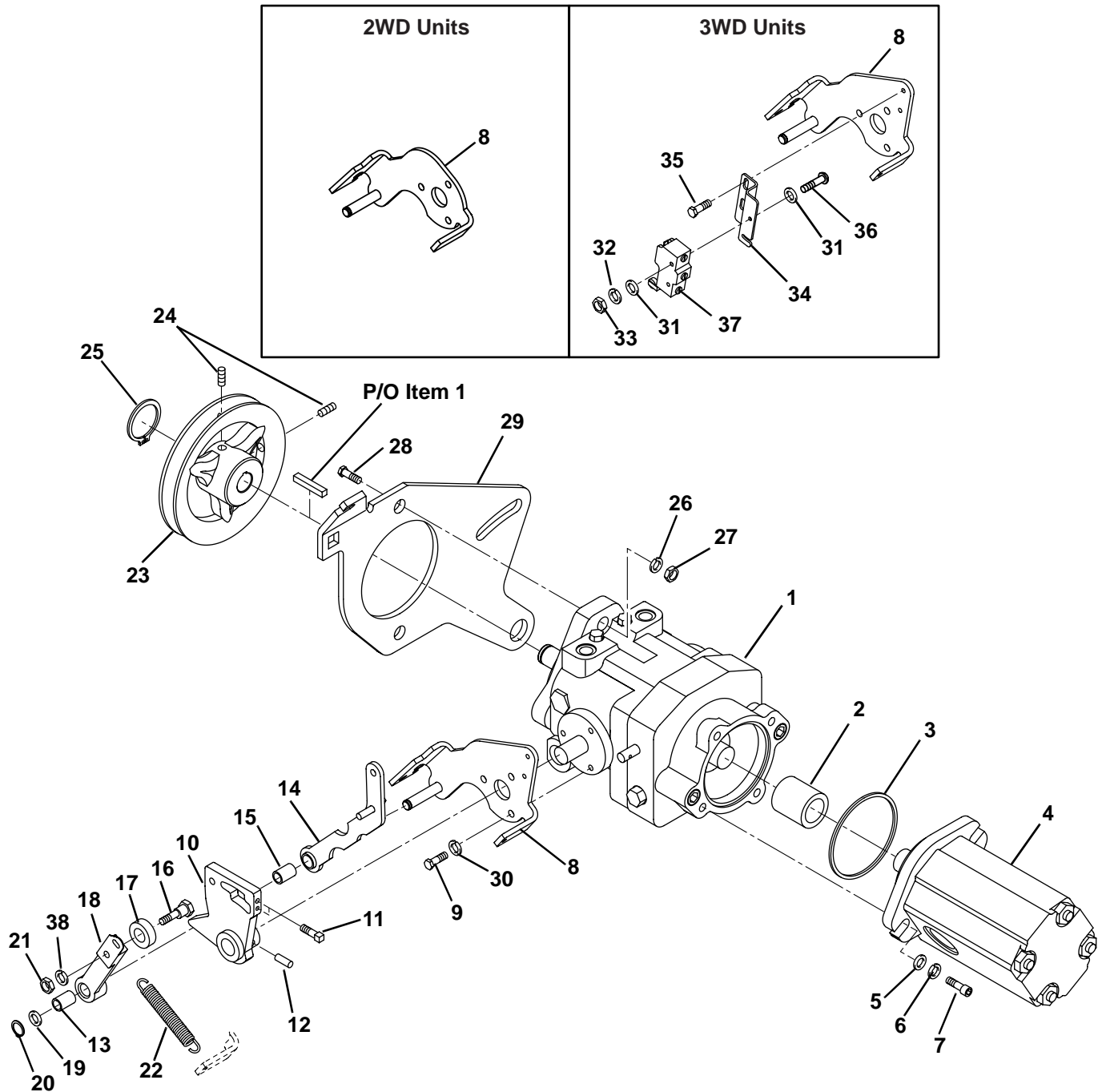
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	391127	1	Air Cleaner	
	5000913	1	• Element, Air Cleaner	
	5000912	1	• Cover, Air Cleaner	
	5000914	1	• Valve	
2	3006254	1	Bumper, Radiator	
3	2000080	1	Pulley, Engine	
4	3002388	1	Bracket, Air Cleaner	
5	3006142	1	Plate, Radiator Stop	
6	361681	5	Screw, M8-1.25 x 40mm Hex Head	
7	3001337	1	Screw, M6-1 x 20mm Hex Head	
8	3009565	1	Belt, V	
9	400188	2	Screw, 5/16-18 x 1" Hex Head	
10	453009	4	Flat Washer, 5/16	
11	446136	11	Lockwasher, 5/16 Heavy	
12	443106	6	Nut, 5/16-18 Hex	
13	1004561	1	Engine, Kubota D662-E	
	554011	1	• Engine Oil Filter	
14	3006112	1	Bracket, Hydraulic Oil Filter	
15	3001349	1	Bracket, Alternator	
16	3002365	1	Indicator, Air Cleaner Service	
17	3002023	1	Muffler, Kubota D662	
18	3002392	1	Hose, Air Cleaner	
19	326799	2	Clamp	
>	20	2	Lockwasher, 1/4 Heavy	
>	21	3	Bolt, M6-1 x 16mm Hex Head	
	22	5	Flat Washer, 1/4	
	23	2	Screw, 5/16-18 x 3/4" Hex Head	
	24	1	Spout, Oil Drip	
	25	4	Clamp, Hose	
	26	1	Hydraulic Oil Filter	
	27	4	Screw, 3/8-16 x 7/8" Hex Head	
	28	4	Lockwasher, 3/8	
	29	1	Hydraulic Filter Head	
	5000614	1	• Indicator Kit	
	5001434	1	• Indicator "O" Ring Kit	
	30	2	Nut, 1/4-20 Hex	
	31	2	Flat Washer, 3/8	
>				
>	◆		Included with engine	See Engine Manual for Service

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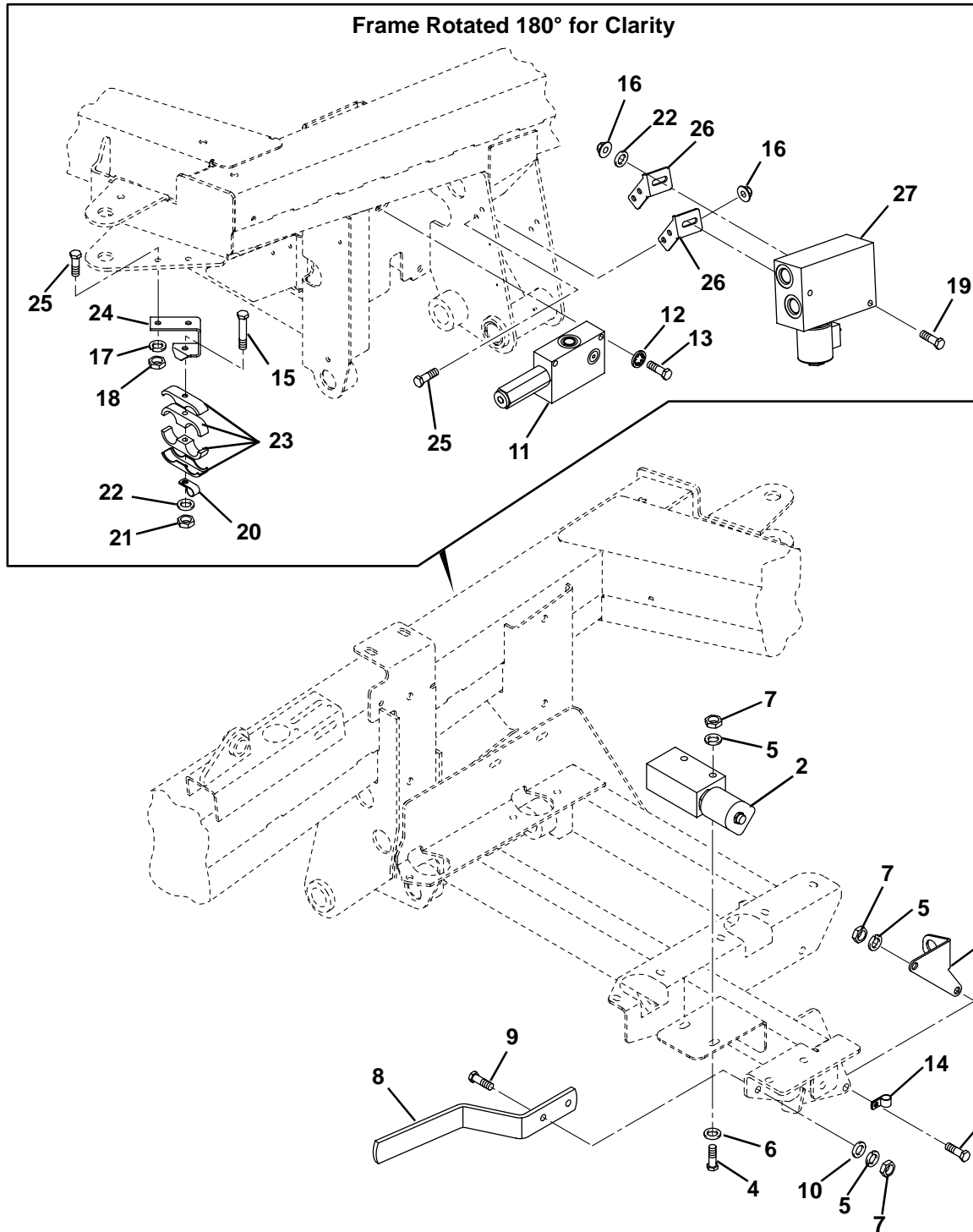
28.1 Pump Assembly



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123299	1	Hydrostatic Pump	See 45.1
2	5002066	1	• Coupler, Hydro to Gear Pump	
3	362743	1	• O-Ring	
4	123298	1	Gear Pump	
	5001858	1	• Seal Kit	
5	453011	2	Flat Washer, 3/8	
6	446142	2	Lockwasher, 3/8 Heavy	
7	434015	2	Screw, 3/8-16 x 1-1/2" Soc Head	
8	1001923	1	Support Plate	2WD Units
8	1002141	1	Support Plate	3WD Units
9	408851	3	Screw, 1/4-20 x 3/4" Thread Cut	
10	1000255	1	Cam	2WD Units
10	1002142	1	Cam	3WD Units
11	422504	2	Screw, #10-32 x 3/8" Set Sq Head	2WD Units
11	422510	2	Screw, #10-32 x 1/2" Set Sq Head	3WD Units
12	461387	1	Roll Pin, 1/4 x 1"	
13	361108	1	Bushing	
14	1000254	1	Shift Lever	
15	361108	1	• Bushing	
>	16	3009733	1 Bolt, 5/16-18 Eccentric	Replaces 3000587
	17	344545	1 Bearing	
>	18	3009734	1 Arm, Roller	Replaces 3000588
	19	308949	AR Shim Washer	
	20	458001	1 Snap Ring Retaining Ring	
>	21	443106	1 Nut, 5/16-18 Hex	Replaces 443102
	22	3000693	1 Spring	
	23	340652	1 Pulley, Pump	
	24	415527	2 • Screw, 5/16-18 x 3/8 Set	
	25	458013	1 Ring, External Retaining	
	26	446154	2 Lockwasher, 1/2 Heavy	
	27	443118	2 Nut, 1/2-13 Hex	
	28	400410	2 Screw, 1/2-13 x 1-3/4" Hex Head	
	29	3001151	1 Plate, Pump	
>	30	446130	3 Lockwasher, 1/4 Heavy	
	31	453005	4 Flat Washer, #6	3WD Units Only
	32	446106	2 Lockwasher, #6 Heavy	3WD Units Only
	33	444304	4 Nut, #6-32 Hex	3WD Units Only
	34	3004622	1 Bracket, Switch	3WD Units Only
	35	409804	2 Screw, #10-24 x 1/2" Thread Cut	3WD Units Only
	36	402018	2 Screw, #6-32 x 1-1/2" Slotted Head	3WD Units Only
	37	3006281	1 Switch, 3WD	3WD Units Only
>	38	446136	1 Lockwasher, 5/16 Heavy	

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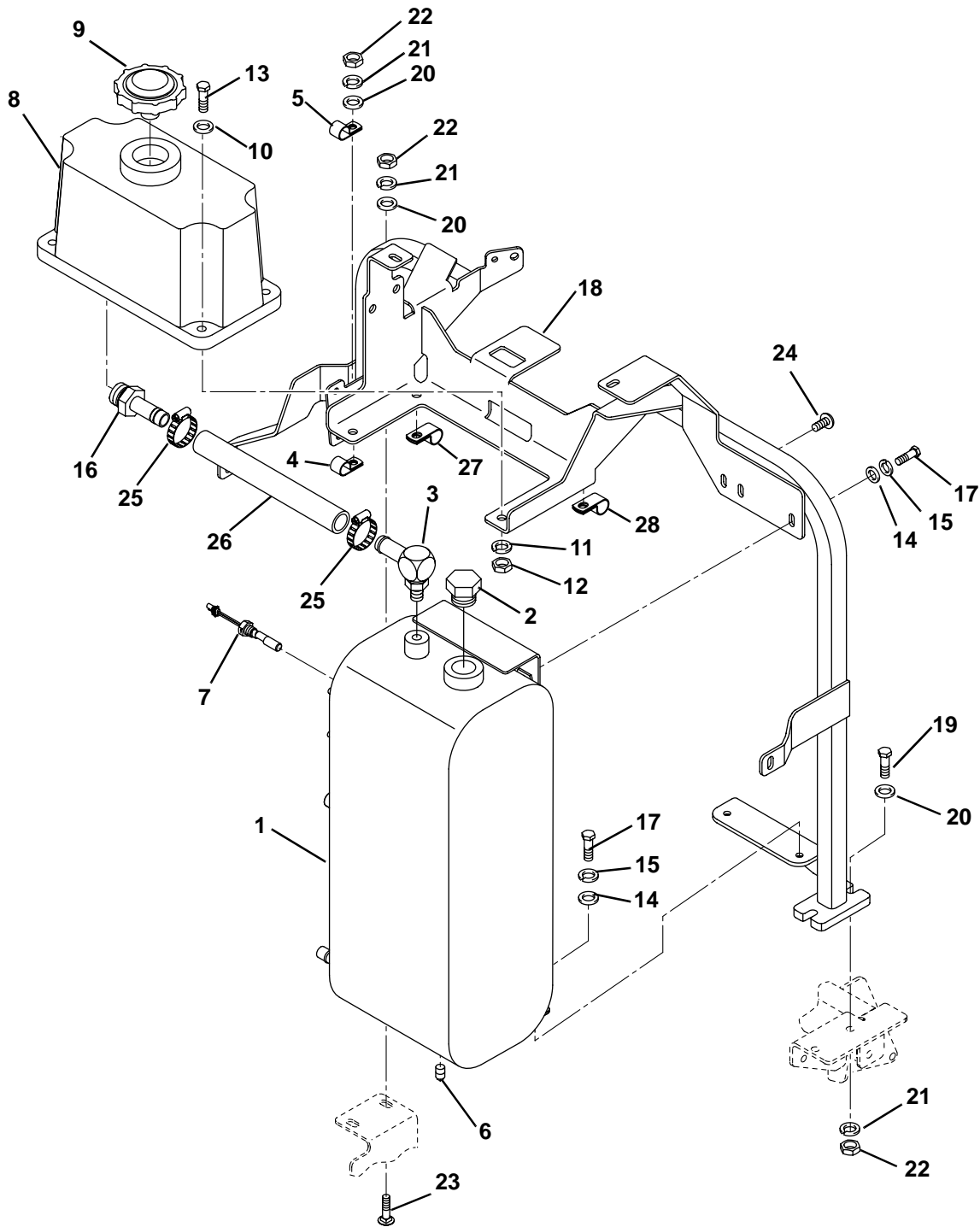
29.1 Sequence, Reel and 3WD Valve Mounting



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3002633	1	Bracket	
2	132915	1	Valve, Reel Control	
	5001372	1	• Coil Assembly	
	5001374	1	• Valve Assembly	
	5001375	1	• Body, Valve	
	5001376	1	• Seal Kit	
3	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
4	400198	2	Screw, 5/16-18 x 2-1/4" Hex Head	
5	446136	6	Lockwasher, 5/16 Heavy	
6	452006	2	Flat Washer, 5/16	
7	443106	6	Nut, 5/16-18 Hex	
8	3000930	1	Stop. Center Reel	
9	400188	2	Screw, 5/16-18 x 1" Hex Head	
10	454027	1	Washer, 5/16 Pyramidal	
11	132913	1	Valve, Sequence	
>	5001377	1	• Sequence Cartridge (Dana Valve)	Used on Dana Valves Only
>	5001378	1	• Shuttle Valve (Dana Valve)	Used on Dana Valves Only
>	5001379	1	• Seal Kit (Dana Valve)	Used on Dana Valves Only
>	2809795	1	• Sequence Cartridge (RJM Valve)	Used on RJM Valves Only
>	2809796	1	• Shuttle, Valve (RJM Valve)	Used on RJM Valves Only
>	5002157	2	• Plug, Port (RJM Valve)	Used on RJM Valves Only
12	447212	2	Lockwasher, 1/4 Internal Tooth	
13	400118	2	Screw, 1/4-20 x 1-3/4" Hex Head	
14	345666	1	Clamp, Hose	Diesel Units Only
15	400122	1	Screw, 1/4-20 x 3" Hex Head	3WD Units Only
16	445794	6	Nut, 1/4-20 Spiralock Flange	3WD Units Only
17	446130	2	Lockwasher, 1/4 Heavy	3WD Units Only
18	443102	2	Nut, 1/4-20 Hex	3WD Units Only
19	400124	2	Screw, 1/4-20 x 2-1/2" Hex Head	3WD Units Only
20	345671	1	Clamp, Hose	3WD Units Only
21	444708	1	Locknut, 1/4-20 Center	3WD Units Only
22	453023	3	Flatwasher, 1/4	3WD Units Only
23	3003473	1	Clamp, Double Hose	3WD Units Only
24	3004990	1	Bracket, Rear Wheel Hose	3WD Units Only
25	400108	6	Screw, 1/4-20 x 3/4" Hex Head	3WD Units Only
26	3005120	2	Bracket, 3WD Valve	3WD Units Only
27	1001146	1	3WD Valve	3WD Units Only
	5001351	2	• Check Valve	3WD Units Only
	5001353	1	• Spool Valve	3WD Units Only
	5001354	1	• Solenoid Coil	3WD Units Only
	5003578	2	• Seal Kit, Check Valve	3WD Units Only
	5003579	1	• Seal Kit, Spool Valve	3WD Units Only
	5002157	2	• Port Plug	3WD Units Only
	5001065	2	• Port Plug	3WD Units Only

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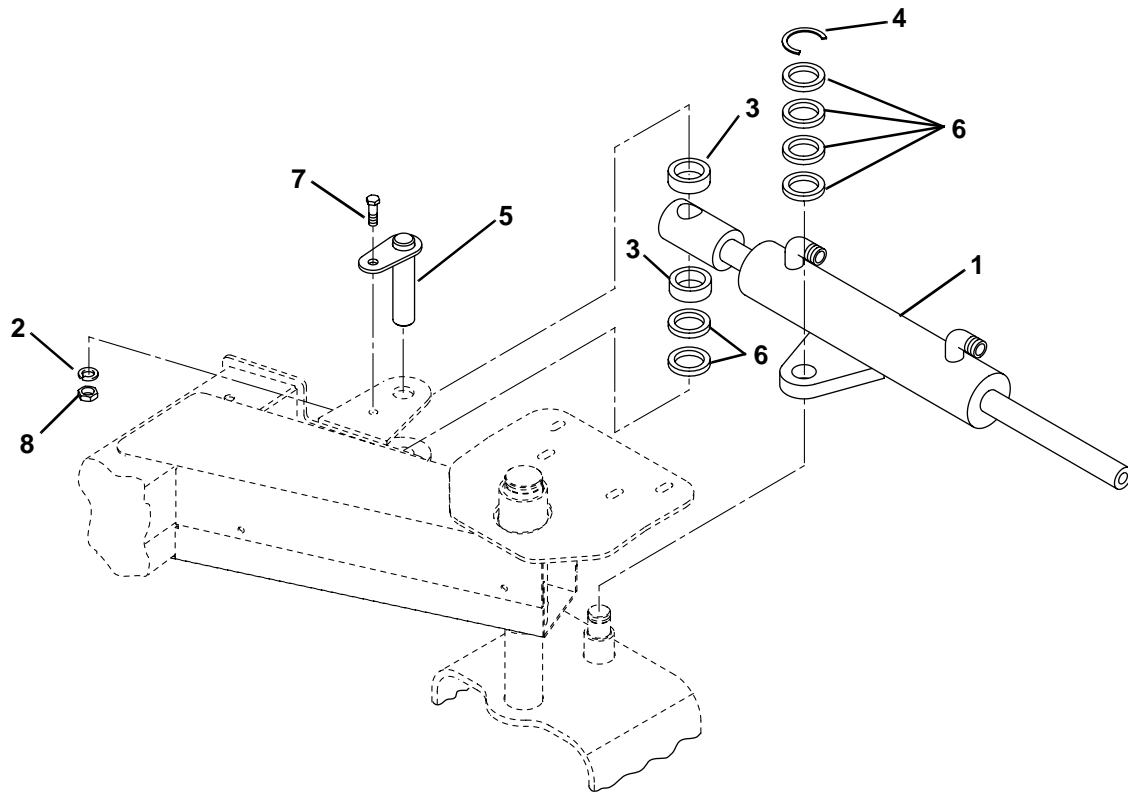
30.1 Hydraulic Tanks



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3008592	1	Tank, Hydraulic	
2	3001402	1	Plug, O-ring	
3	366673	1	Adapter, 90°	
4	3003773	1	Clamp, Choke Cable	Gas Units Only
5	324887	1	Clamp, Throttle Cable	Diesel Units Only
6	472205	1	Plug, 3/8 Square Head	
7	3000264	1	Switch, Hydraulic Level	
8	3002244	1	Tank, Hydraulic Expansion	
9	366675	1	Cap, Hydraulic Fill	
10	453009	4	Flat Washer, 5/16	
11	446136	4	Lockwasher, 5/16 Heavy	
12	443106	4	Nut, 5/16-18 Hex	
13	400192	4	Screw, 5/16-18 x 1-1/2" Hex Head	
14	453023	3	Flat Washer, 1/4	
15	446128	3	Lockwasher, 1/4	
16	3002836	1	Adapter, Straight	
17	400106	3	Screw, 1/4-20 x 5/8" Hex Head	
18	1001545	1	Bar, Tank Mounting	
19	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
20	453011	4	Flat Washer, 3/8	
21	446140	4	Lockwasher, 3/8	
22	443110	4	Nut, 3/8-16 hex	
23	440120	2	Carriage Bolt, 3/8-16 x 1-1/4"	
24	404014	1	Screw, 1/4-20 x 1/2" Truss Head	
25	366526	2	Clamp, Hose	
26	1000420	1	Hose, Hydraulic Expansion Tank	
27	345671	1	Clamp, Wire Harness	Gas Units
27	354080	1	Clamp, Wire Harness	Diesel Units
28	3003773	1	Clamp, Wire Harness	Gas Units
28	360970	1	Clamp, Wire Harness	Diesel Units

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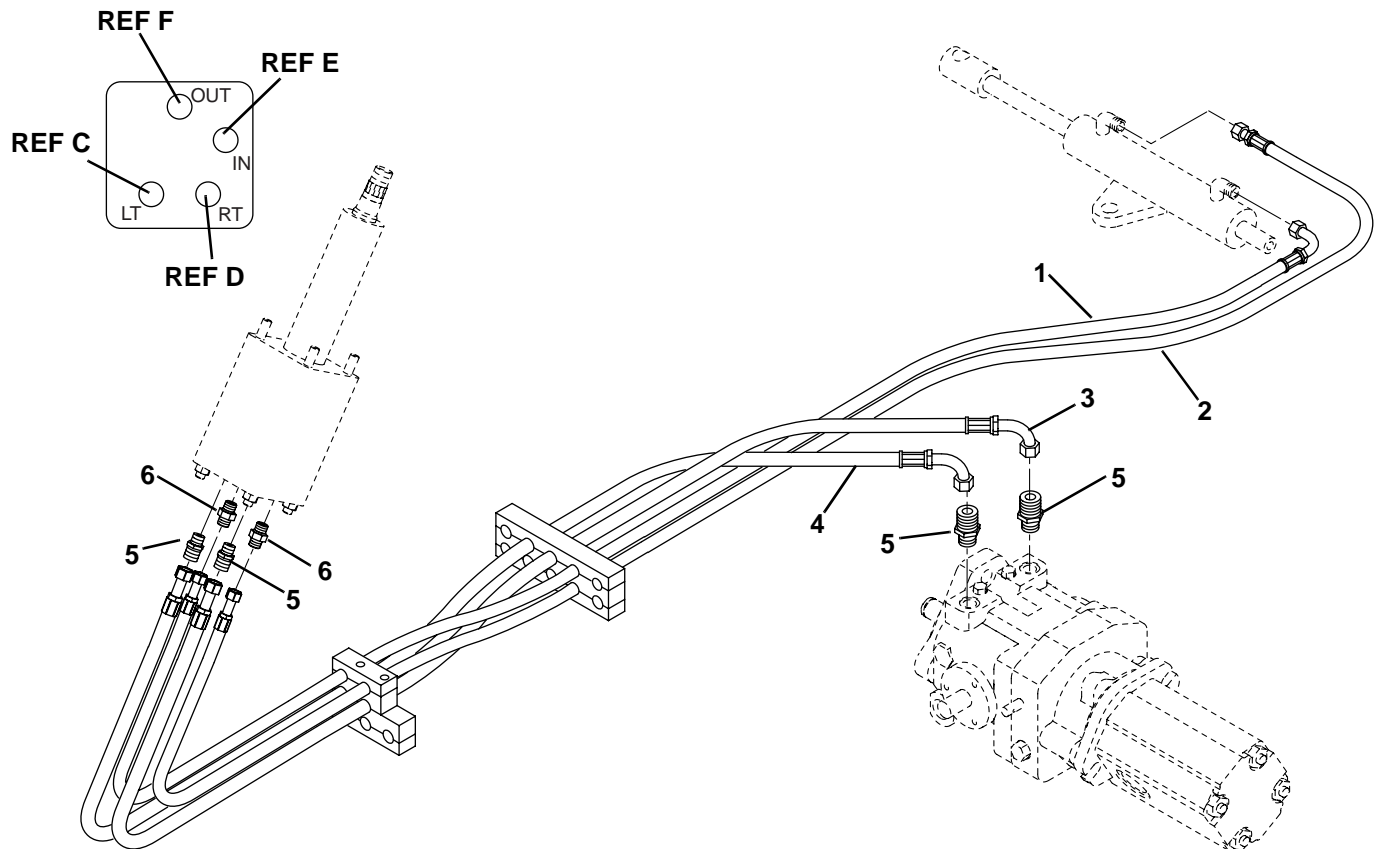
31.1 Steering Cylinder



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123301	1	Steering Cylinder	Gold Star Cylinders Only HDM Cylinders Only
	5000632	1	• Seal Kit	
	5003660	1	• Seal Kit	
2	446136	1	Lockwasher, 5/16 Heavy	
3	320650	2	Spacer	
4	458419	1	External Ring, 3/4" O.D.	
5	1001067	1	Pin, Cylinder Retaining	
6	311812	AR	Washer	
7	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
8	443106	1	Nut, 5/16-18 Hex	

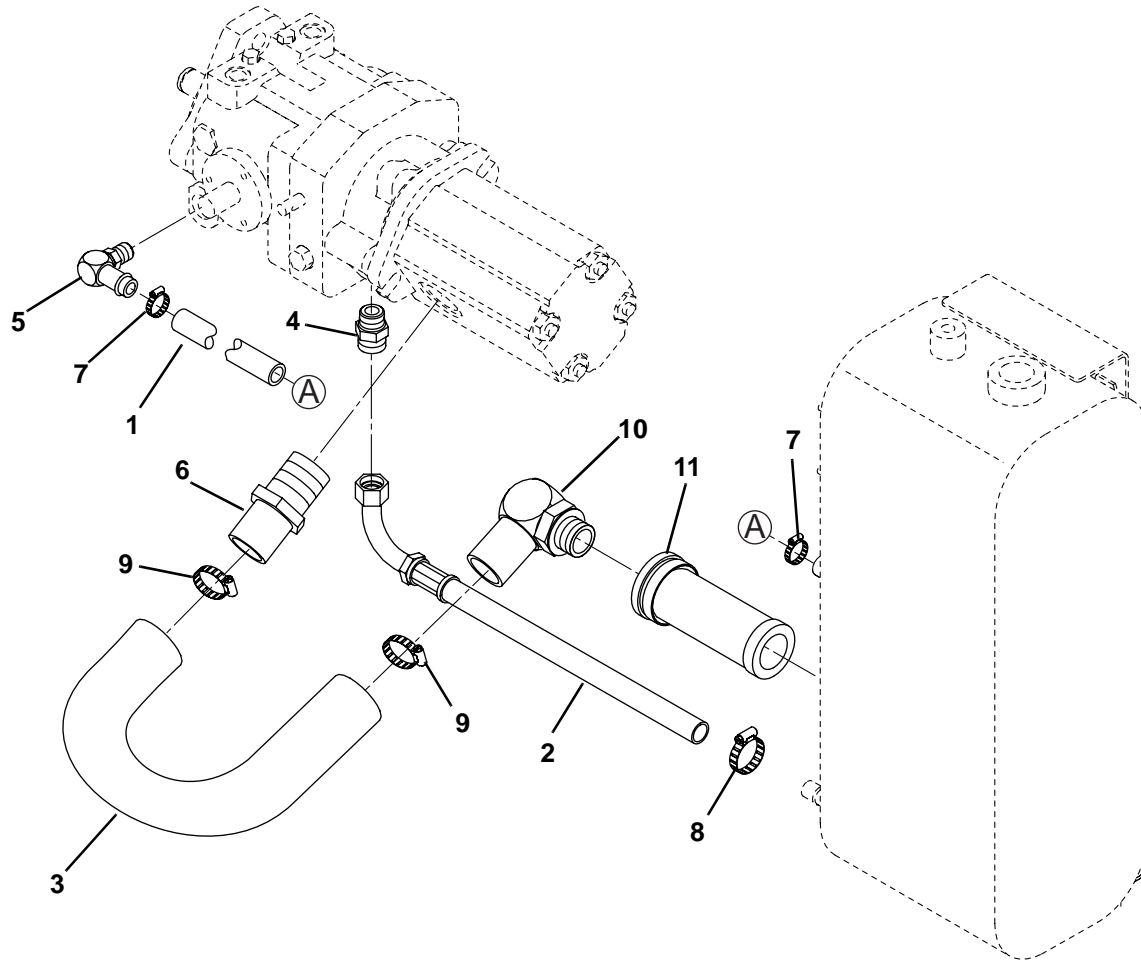
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32.1 Steering Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000396	1	Hose, Valve LT Port to Cylinder	(REFERENCE C, See 39.1)
2	1000397	1	Hose, Valve RT Port to Cylinder	(REFERENCE D, See 39.1)
3	1004412	1	Hose, Pump to Valve IN Port	(REFERENCE E, See 39.1)
4	1001980	1	Hose, Valve OUT Port to Pump	(REFERENCE F, See 39.1)
5	339979	4	Adapter, Straight	Steering Valve Ports IN and OUT
6	339974	2	Adapter, Straight	Steering Valve Ports LT and RT

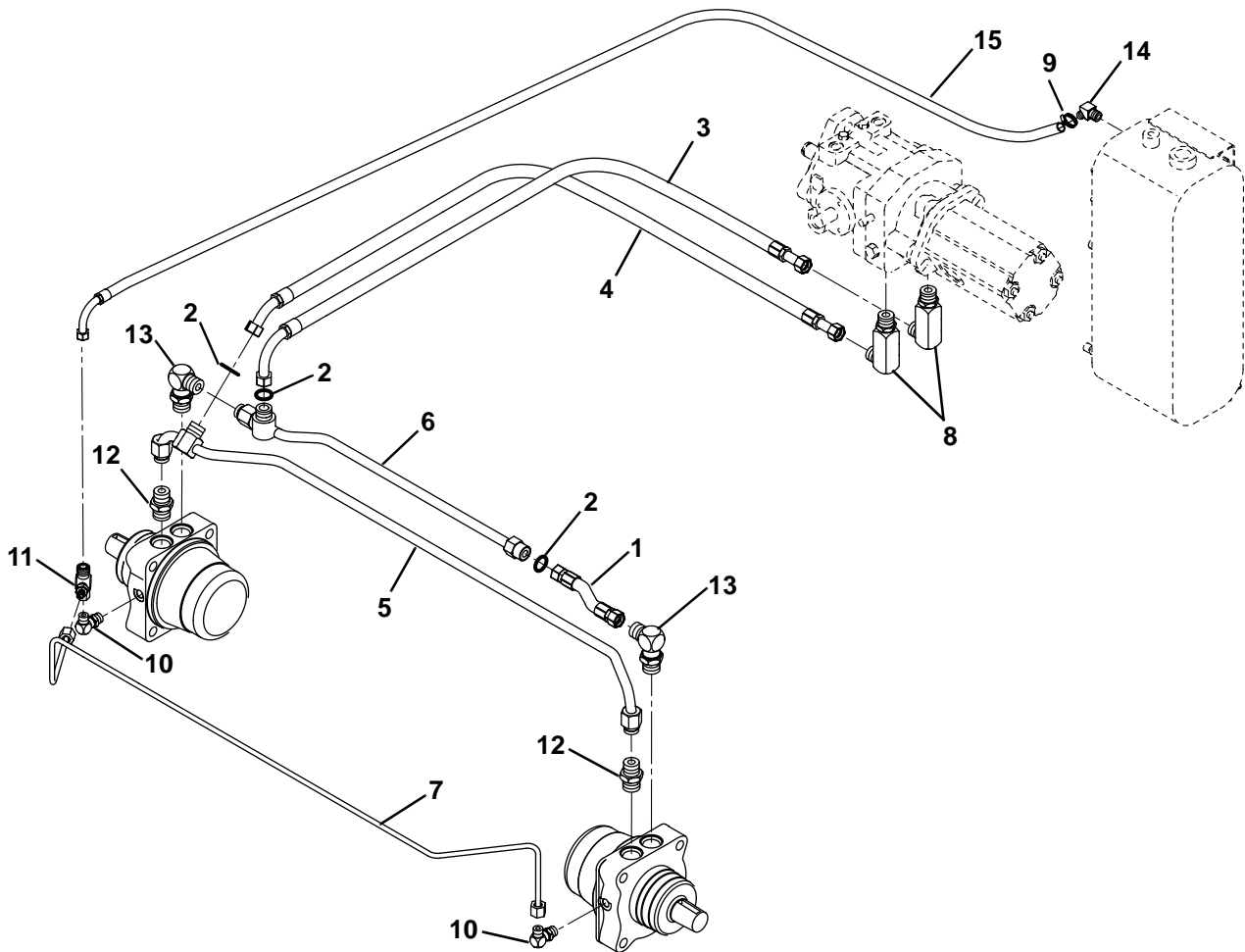
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000749	1	Hose, Tank to Charge Pump Inlet	
2	1001984	1	Hose, Pump Case Drain to Tank	Gas Units
2	1000750	1	Hose, Pump Case Drain to Tank	Diesel Units
3	3001033	1	Hose, Gear Pump Inlet	Gas Units
3	3001643	1	Hose, Gear Pump Inlet	Diesel Units
4	339984	1	Adapter, Straight	
5	3002865	1	Adapter, 90° Beaded Tube	
6	3001296	1	Adapter, Straight Beaded Tube	
7	349816	2	Clamp, Hose	
8	359611	1	Clamp, Hose	
9	367458	2	Clamp, Hose	
10	3005602	1	Adpater, 90° Beaded Tube	
11	3005694	1	Strainer, Suction	

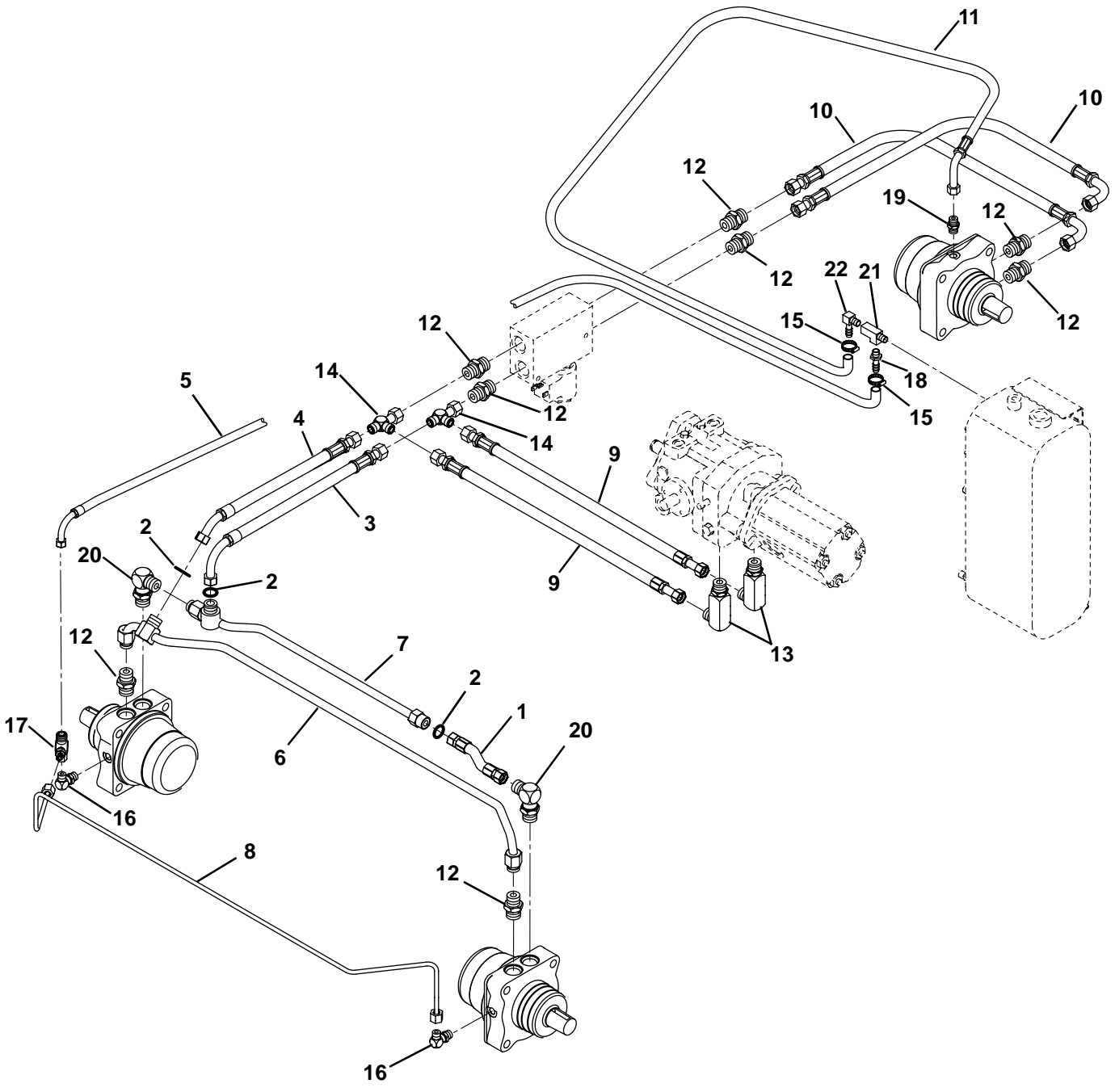
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34.1 2WD Traction Hydraulics



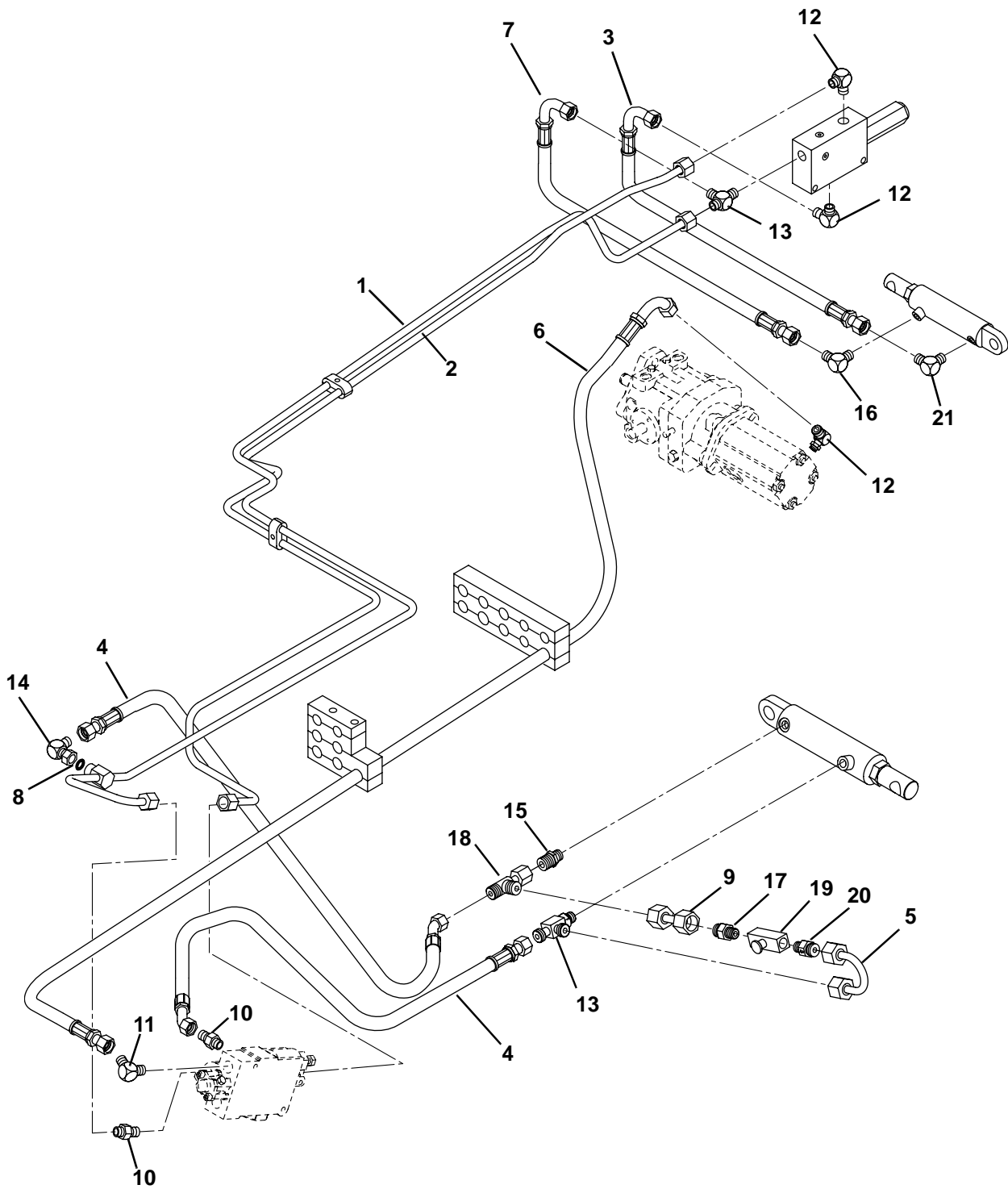
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1001871	1	Reverse Traction Tube to L.H. Motor	(REFERENCE B, See 39.1) (REFERENCE A, See 39.1) (REFERENCE S, See 39.1)
2	339910	3	"O" Ring	
3	1000428	1	Pump to Reverse Traction Tube	
4	1000429	1	Pump to Forward Traction Tube	
5	3001031	1	Tube, Forward Traction	
6	1001872	1	Tube, Reverse Traction	
7	1001229	1	Tube, Front Motor Drain	
8	340084	1	Adapter, 90°	
9	366526	1	Clamp, Hose	
10	340055	2	Adapter, 90°	
11	340118	1	Adapter, Tee	
12	339985	2	Adapter, Straight	
13	340067	2	Adapter, 90°	
14	3004036	1	Adapter, 45°	
15	1001232	1	Hose, Front Motor Drain to Tank	

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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1001871	1	Hose, Rev. Traction Tube to Motor	
2	339910	3	"O"-Ring	
3	1002061	1	Hose, 3WD Valve to Reverse Tube	(REFERENCE B, See 39.1)
4	1002062	1	Hose, 3WD Valve to Forward Tube	(REFERENCE A, See 39.1)
5	1001232	1	Hose, Front Motor Drain to Tank	(REFERENCE S, See 39.1)
6	3001031	1	Tube, Forward Traction	
7	3001872	1	Tube, Reverse Traction	
8	1001229	1	Tube, Front Motor Case Drain	
9	1002059	2	Hose, Pump to 3WD Valve	
10	1002064	2	Hose, Pump to Rear Wheel Motor	
11	1002775	1	Hose, Rear Wheel Motor to Tank	
12	339985	8	Adapter, Straight	
13	340084	2	Adapter, 90°	
14	340120	2	Adapter, Tee	
15	366526	2	Clamp, Hose	
16	340055	2	Adapter, 90°	
17	340118	1	Adapter, Tee	
18	3005973	1	Adapter, Straight	
19	339972	1	Adapter, Straight	
20	340067	2	Adapter, 90°	
21	3005974	1	Adapter, Tee	
22	3002581	1	Adapter, 90°	

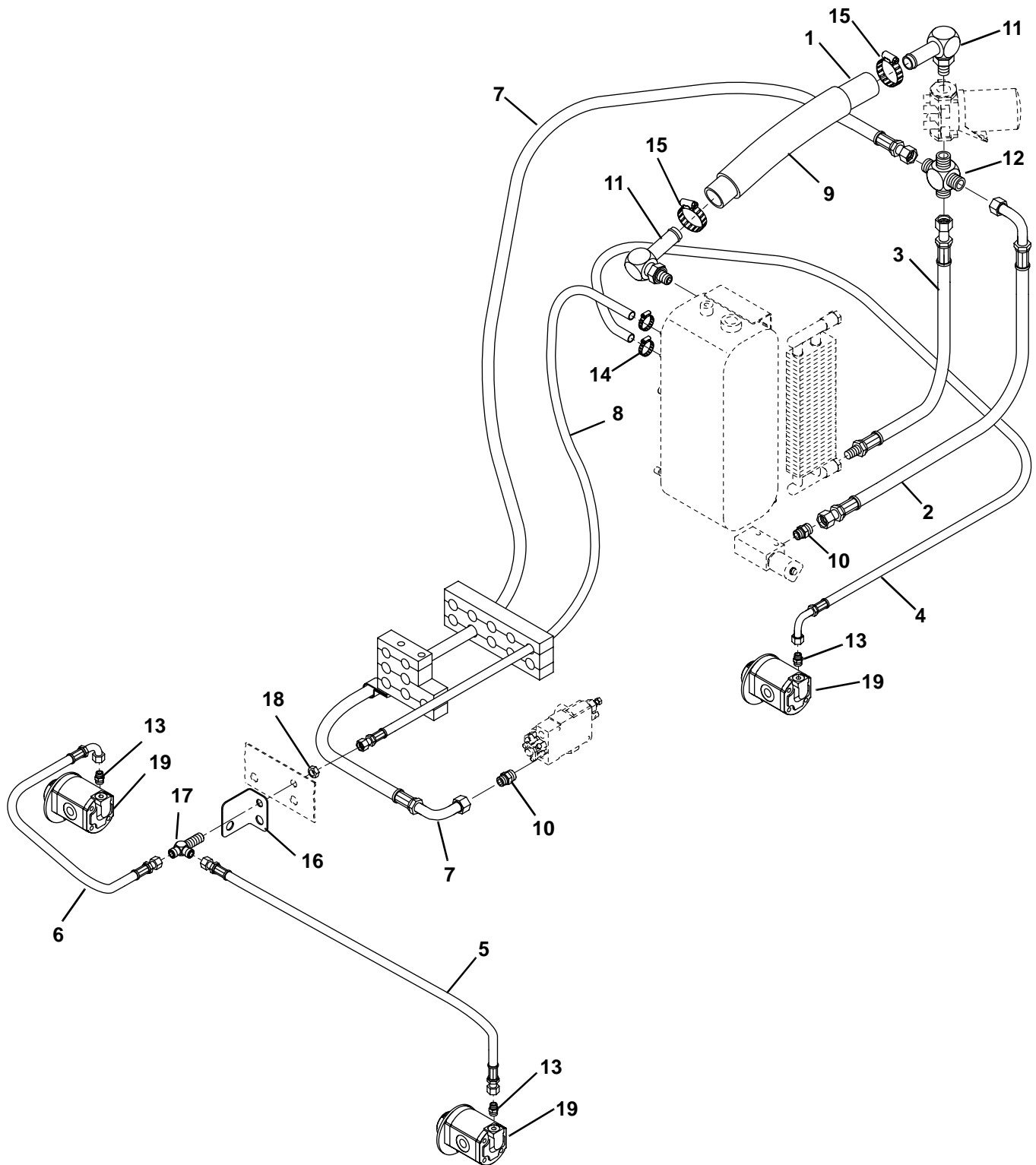
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3000894	1	Tube, Reel Lift	(REFERENCE M, See 39.1)
2	3000895	1	Tube, Reel Lower	(REFERENCE N, See 39.1)
3	1000399	1	Hose, Sequence Valve to Cylinder	
4	1001971	2	Hose, Lift Valve to Cylinder	
5	1001972	1	Tube, U	
6	1000411	1	Hose, Gear Pump to Lift Valve	(REFERENCE G, See 39.1)
7	1000455	1	Hose, Cylinder to Sequence Valve	
8	339909	1	O-Ring	
9	1002030	1	Tube, Soft Drop	
10	339979	2	Adapter, Straight	
11	340085	1	Adapter, 90°	
> 12	340061	3	Adapter, 90°	
13	340263	2	Adapter, Tee	
14	340375	1	Adapter, 90°	
15	340006	1	Adapter, Straight	
16	340087	1	Adapter, 90°	
17	340003	1	Adapter, Straight	
18	340119	1	Adapter, Tee	
19	162561	1	Needle Valve	
20	3004425	1	Check Valve	
> 21	340026	1	Adapter, 90°	

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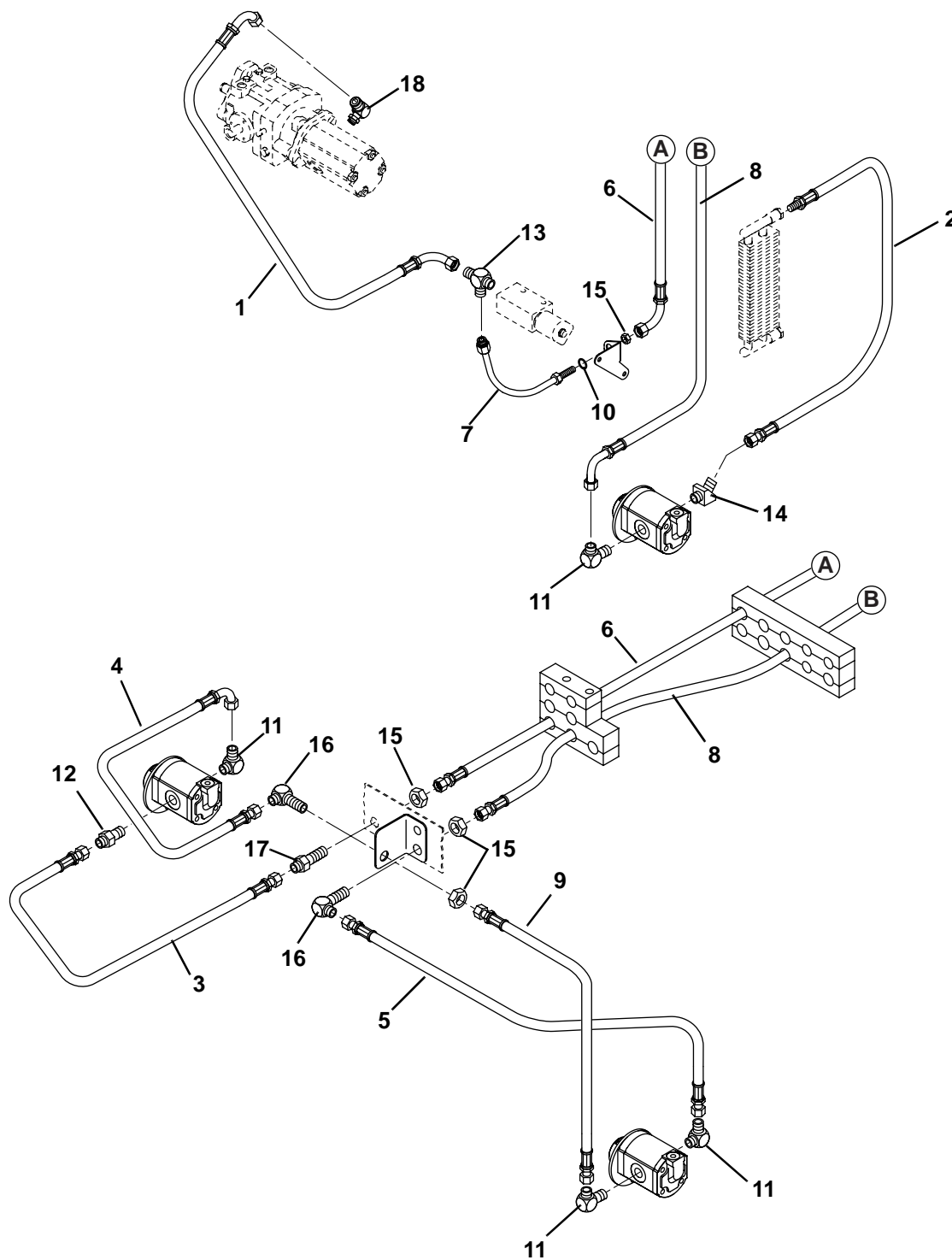
37.1 Return Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000392	1	Hose, Filter to Tank	
2	1000393	1	Hose, Reel Valve to Filter	
3	1000395	1	Hose, Oil Cooler to Filter	
4	1000404	1	Hose, Center Motor Drain to Tank	
5	1004791	1	Hose, Left Motor Drain to Tee	
6	1004790	1	Hose, Right Motor Drain to Tee	
7	1004792	1	Hose, Lift Valve to Filter	(REFERENCE K, See 39.1)
8	1000422	1	Hose, Bulkhead Tee to Tank	(REFERENCE P, See 39.1)
9	3006302	1	Cover, Hydraulic Hose	Diesel Units Only
10	339984	2	Adapter, Straight	
11	3001025	2	Adapter, 90° Beaded Tube	
12	3001027	1	Adapter, Cross	
13	339972	3	Adapter, Straight	
14	366526	2	Clamp, Hose	
15	349816	2	Clamp, Hose	
16	3002186	2	Bracket, Bulkhead	
17	340214	1	Adapter, Bulkhead Tee	
18	339960	1	Nut, Bulkhead	
19	1004929	3	Reel Motor	
	5001068	1	• "O"-Ring Mount	
	5002651	1	• Seal Kit	
	5003688	1	• Front Cover Kit	

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38.1 Reel Hydraulics



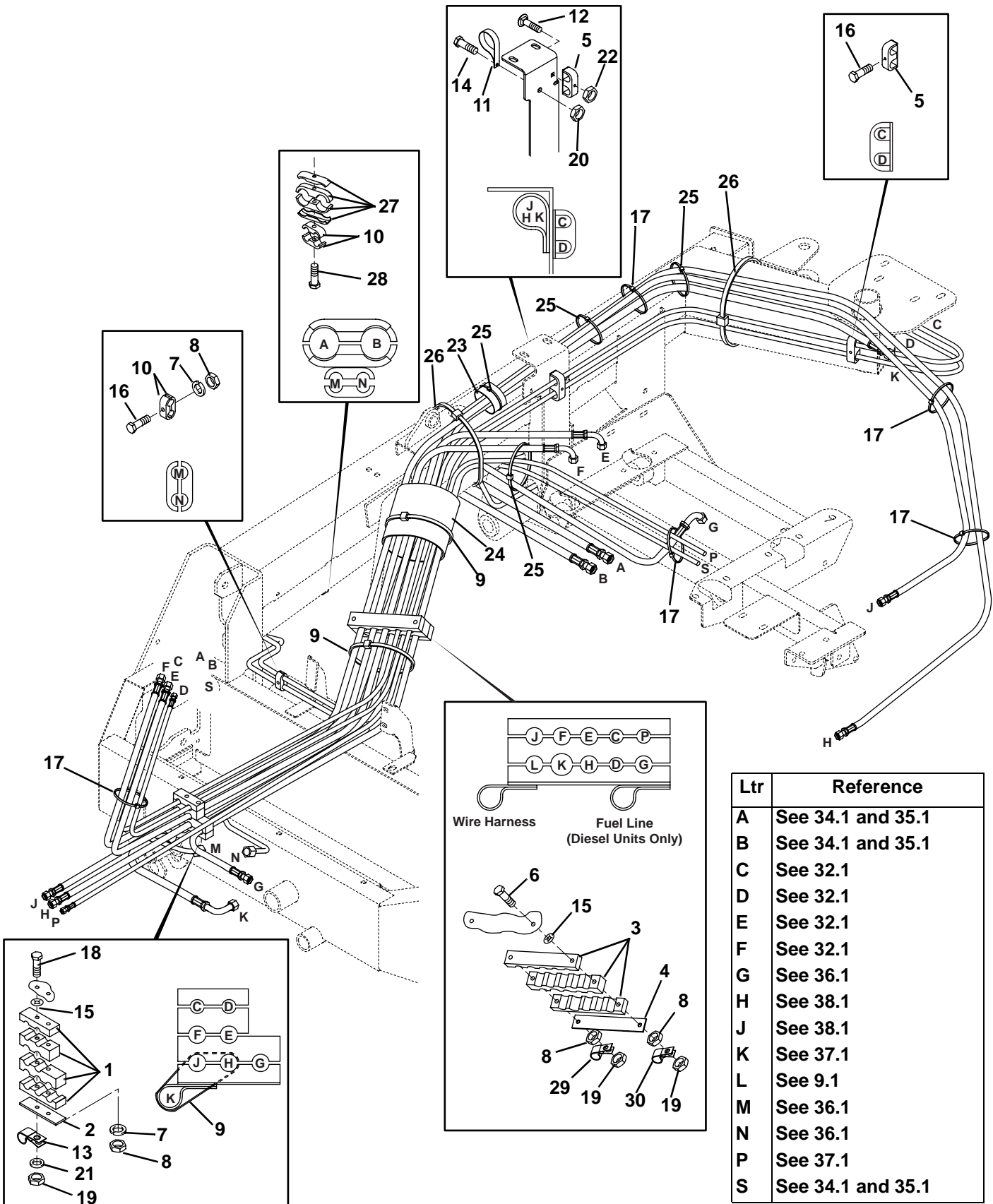
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000389	1	Hose, Pump to Reel Valve	
2	1001174	1	Hose, Center Motor to Oil Cooler	
3	1001076	1	Hose, Bulkhead to Right Motor	
4	1001075	1	Hose, Right Motor to Bracket	
5	1001074	1	Hose, Left Motor to Bulkhead	
6	1001981	1	Hose, Reel Tube to Bulkhead	(REFERENCE J, See 39.1)
7	3002395	1	Tube, Reel	
8	1000409	1	Hose, Bulkhead to Center Motor	(REFERENCE H, See 39.1)
9	1001073	1	Hose, Bracket to Left Motor	
10	339909	1	O-Ring	
11	340062	4	Adapter, 90°	
12	339980	1	Adapter, Straight	
13	340264	1	Adapter, Tee	
14	340027	1	Adapter, 45°	
15	339961	4	Locknut, Bulkhead	
16	340167	2	Adapter, 90° Bulkhead	
17	340239	1	Adapter, Straight Bulkhead	
18	340066	1	Adapter, 90°	

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GREENS KING V

39.1 Hydraulic Routing

Serial No. All

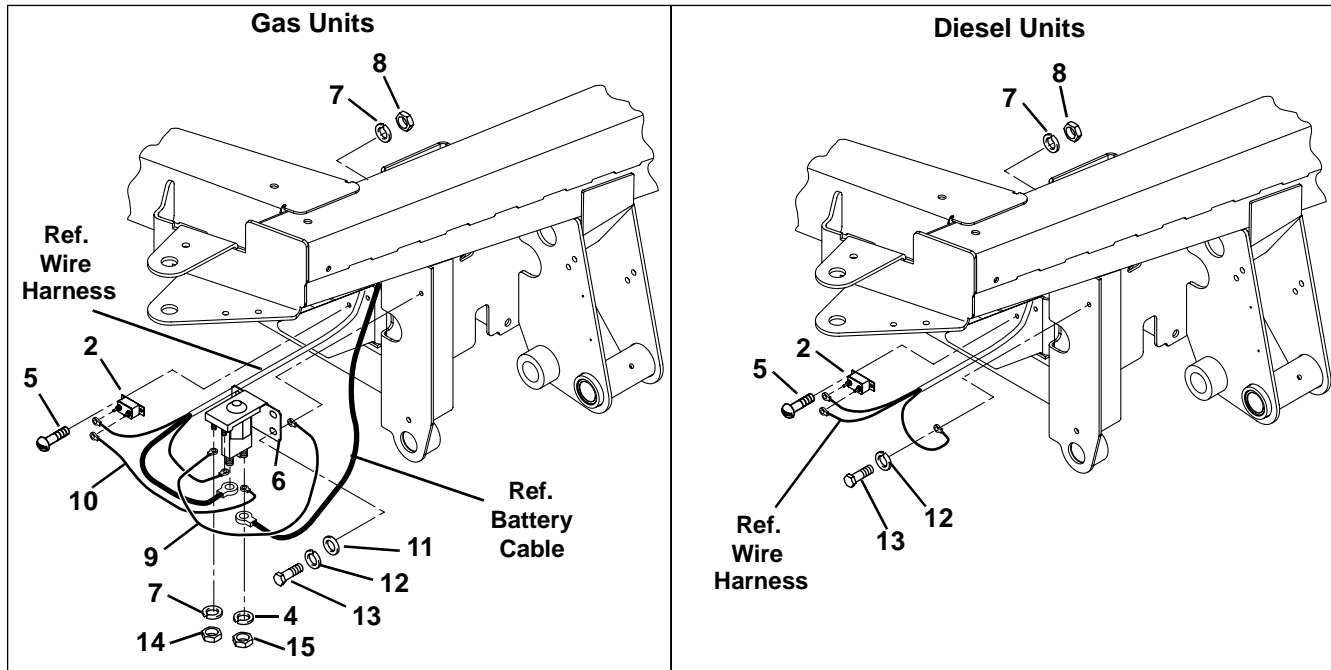


Ltr	Reference
A	See 34.1 and 35.1
B	See 34.1 and 35.1
C	See 32.1
D	See 32.1
E	See 32.1
F	See 32.1
G	See 36.1
H	See 38.1
J	See 38.1
K	See 37.1
L	See 9.1
M	See 36.1
N	See 36.1
P	See 37.1
S	See 34.1 and 35.1

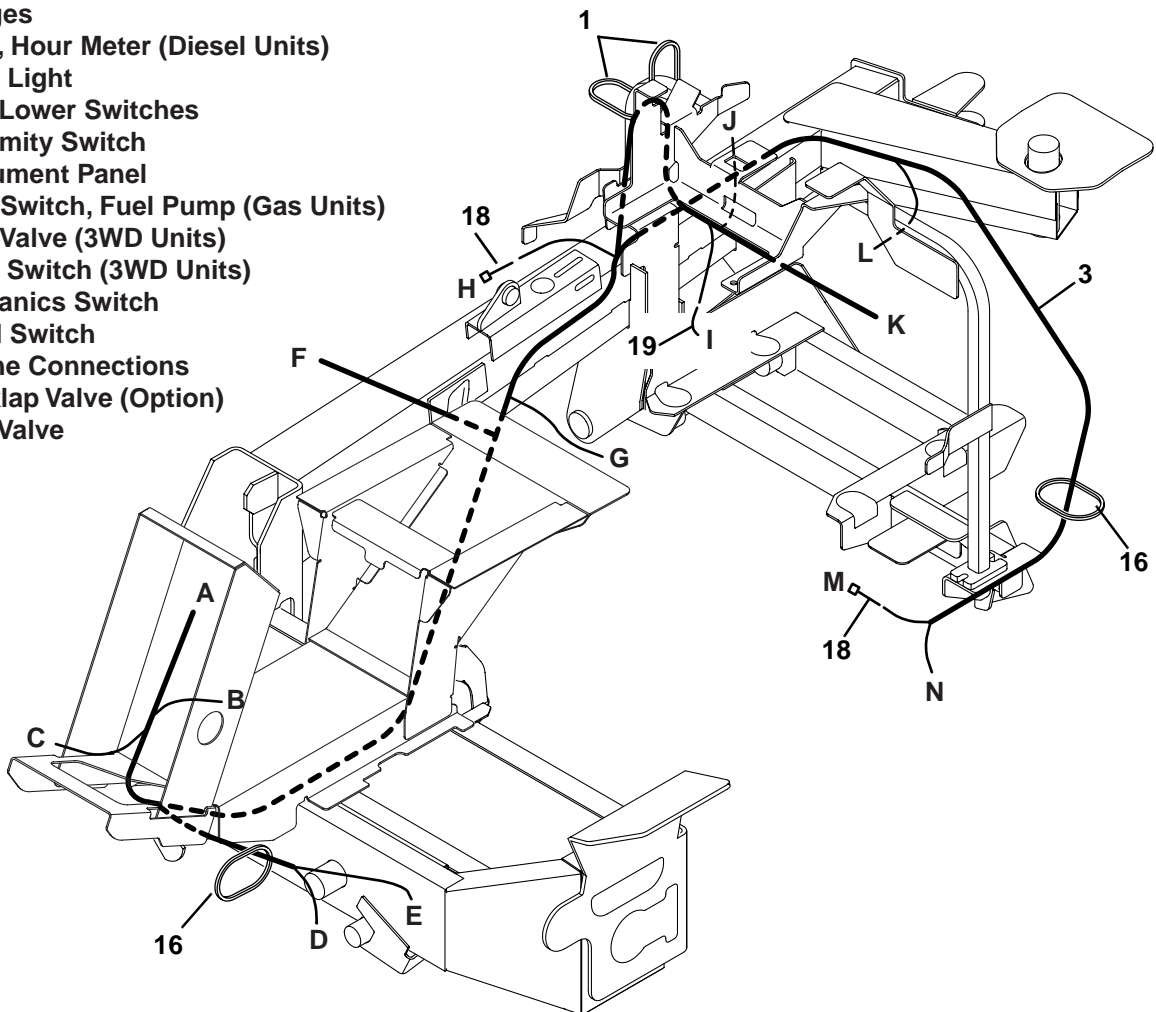
Item	Part No.	Qty.	Description	Serial Numbers/Notes	
	1	3002724	1	Clamp, 7 Place	
	2	3002725	1	Plate, Backup	
	3	3002204	1	Clamp, 10 Place	
	4	3002203	1	Plate, Backup	
	5	3002431	2	Clamp, 2 Place	
	6	400126	2	Screw, 1/4-20 x 3" Hex Head	
	7	446130	2	Lockwasher, 1/4 Heavy	
	8	443102	5	Nut, 1/4-20 Hex	
	9	473144	4	Cable Tie, 5/16 x 16"	
	10	364221	2	Clamp, Double Tube	
	11	364190	1	Clamp, Hose	
	12	441604	1	Carriage Bolt, 1/4-20 x 1"	
>	13	345671	1	Clamp, Hose	
>	14	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
	15	3003221	4	Retainer	
>	16	400114	2	Screw, 1/4-20 x 1-1/4" Hex Head	
>	17	473142	6	Cable Tie, 3/16 x 16"	
	18	400130	2	Screw, 1/4-20 x 4" Hex Head	
	19	444708	2	Locknut, 1/4-20 Center	
>	20	445781	1	Nut, 5/16-18 Whiz Lock	
	21	453023	1	Flat Washer, 1/4	
	22	445784	1	Nut, 1/4-20 Whiz Lock	
	23	3004146	1	Wrap, Hose	
	24	3004022	1	Wrap, Hose	
	25	473137	6	Cable Tie, 5/16 x 9"	
	26	473196	2	Cable Tie, 3/8 x 36"	
	27	3002432	1	Clamp, 2 Place	2WD Units
	27	3003473	1	Clamp, 2 Place	4WD Units
	28	400124	1	Screw, 1/4-20 x 2-1/2" Hex Head	2WD Units
	28	400126	1	Screw, 1/4-20 x 3" Hex Head	
	29	360970	1	Clamp, Tube	
	30	345666	1	Clamp, Hose	Diesel Units Only
	31	3002831	1	Pad, Isolator (Not Shown)	Located Between Fuel Tank and Front Wheel Motor Case Drain Tube

> Change from previous revision

40.1 Electrical Wiring



- A - Gauges
- B - Horn, Hour Meter (Diesel Units)
- C - Head Light
- D - Lift / Lower Switches
- E - Proximity Switch
- F - Instrument Panel
- G - Seat Switch, Fuel Pump (Gas Units)
- H - 3WD Valve (3WD Units)
- I - Hydro Switch (3WD Units)
- J - Mechanics Switch
- K - Level Switch
- L - Engine Connections
- M - Backlap Valve (Option)
- N - Reel Valve



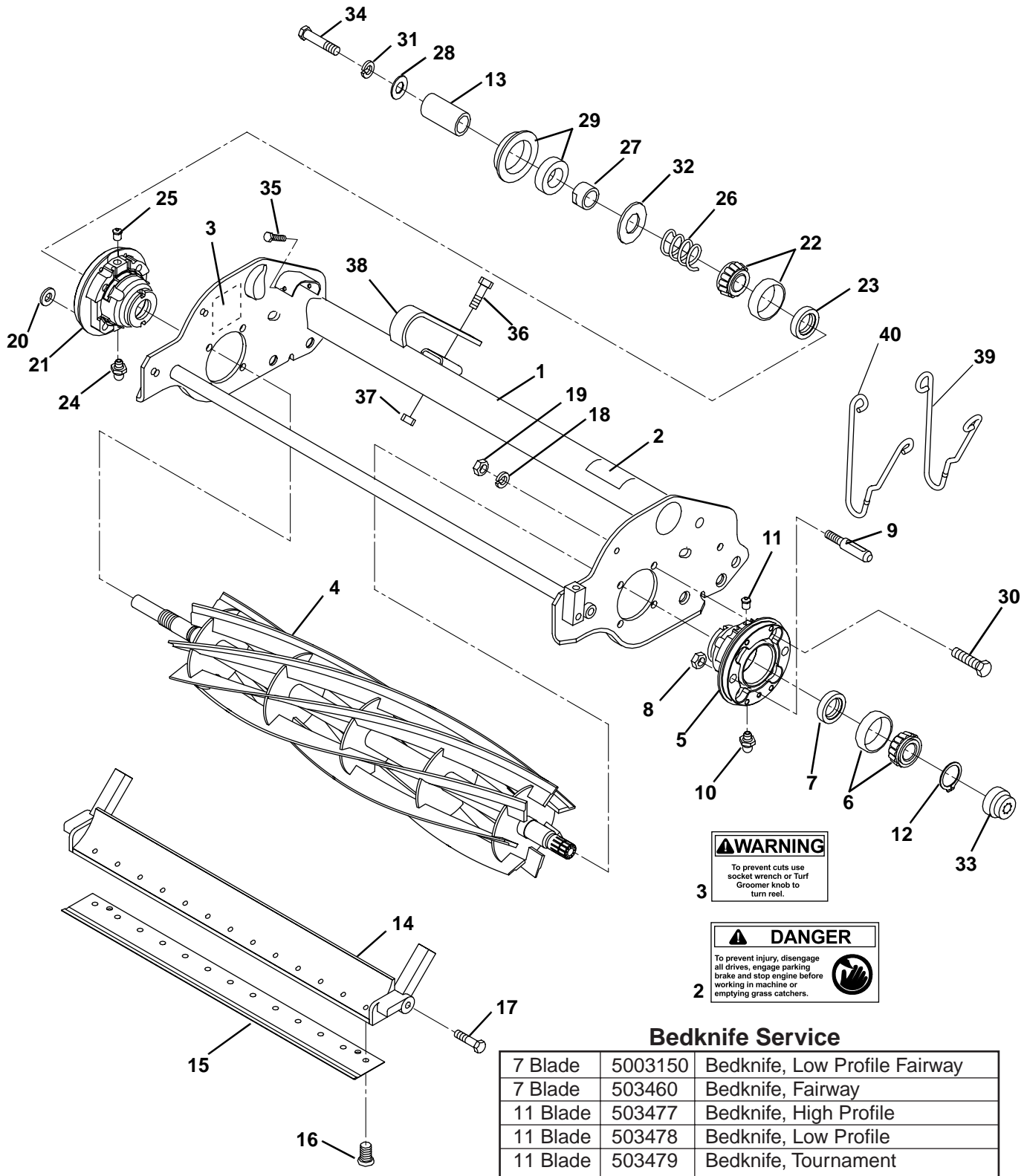
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	473142	2	Cable Tie	
2	361439	1	50 Amp Circuit Breaker	
3	1004850	1	Gas Wire Harness	Gas Units
3	1004851	1	Diesel Wire Harness	Diesel Units
4	446136	2	Lockwasher, 5/16 Heavy	Gas Units Only
5	402118	2	Screw, #10-24 x 1/2" Slotted Head	
6	131905	1	Starter Solenoid	Gas Units Only
7	446116	4	Lockwasher, #10	Gas Units
7	446116	2	Lockwasher, #10	Diesel Units
8	444310	2	Nut, #10-24 Hex	
9	112206	1	Wire, Solenoid to Ground	Gas Units Only
10	3003295	1	Wire, Solenoid to Circuit Breaker	Gas Units Only
11	452004	2	Flat Washer, 1/4	
12	446130	2	Lockwasher, 1/4 Heavy	Gas Units
12	446130	1	Lockwasher, 1/4 Heavy	Diesel Units
13	409907	2	Screw, 1/4-20 x 1/2" Self Tapping	Gas Units
13	409907	1	Screw, 1/4-20 x 1/2" Self Tapping	Diesel Units
14	444312	2	Nut, #10-32 Hex	Gas Units Only
15	443808	2	Nut, 5/16-24 Hex Jam	Gas Units Only
16	473164	2	Cable Tie	Wire Harness to Hydraulic Hose
17	361001	1	Nut, M6-1 Hex (Not Shown)	Diesel Units Only: Located on Alternator
18	3009728	1	Harness, Solenoid Valve	2WD Units
18	3009728	2	Harness, Solenoid Valve	3WD Units
19	1004854	1	Adapter, Harness to Hydro Switch	3WD Units Only
> 20	1000228	2	Mount (Not Shown)	Located in steering tower

> Change from previous revision

GREENS KING V

41.1 Reel Assembly

Serial No. 67024 All
Serial No. 67030 All



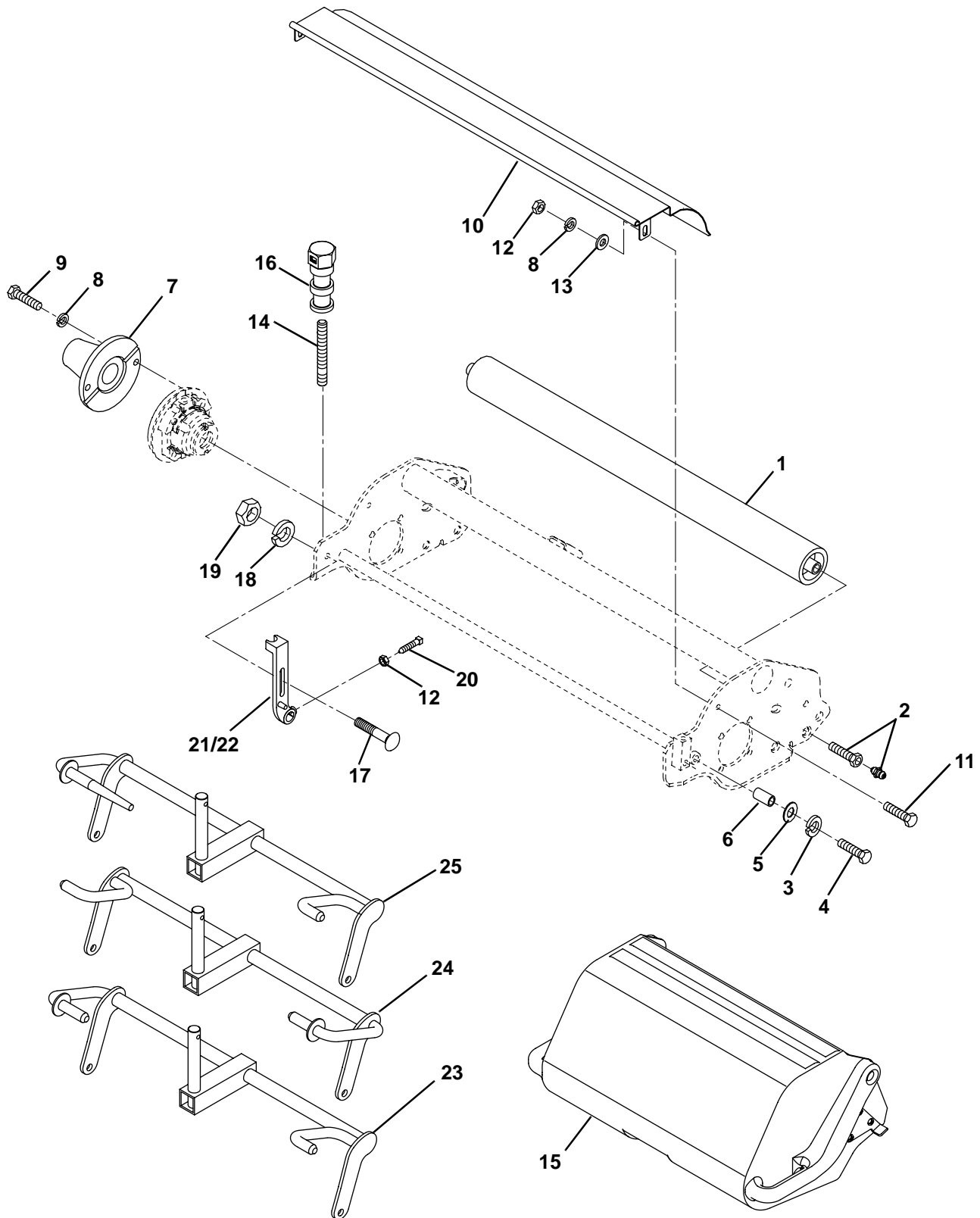
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002577	1	Frame, Reel	
2	361877	2	• Decal, Danger	
3	1000997	1	• Decal, Warning	
4	5003054	1	7 Blade Reel	68630 Only
4	5001102	1	11 Blade Reel	67024 Only
5	1004786	1	Bearing Housing	
6	500534	1	• Bearing, Cup and Cone	
7	336962	1	• Seal, Grease	
8	444708	2	• Locknut, 1/4-20 Center	
9	3010296	2	• Pin, Motor Mounting	
10	471214	1	• Grease Fitting	
11	471240	1	• Vent Fitting	
12	458013	1	Snap Ring	
13	367164	1	Spacer	
14	5000415	1	Bedknife Backing	
15	See Chart	1	Bedknife	
16	3009138	13	Screw, 1/4-20 x 1/2" Flat Head	
17	315298	2	Bolt, 7/16 x 3/4"	
18	446136	8	Lockwasher, 5/16 Heavy	
19	443106	8	Nut, 5/16-18 Hex	
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	1	Lockwasher, 3/8 Heavy	
32	304745	1	Washer	
33	337370	1	Coupler	
34	400294	1	Screw, 3/8-24 x 1" Hex Head	
35	412503	4	Screw, 3/8-16 x 1-1/4" Square Head	
36	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
37	445722	2	Nut, 5/16-18 Whizlock	
38	364928	1	Stop, Mower	
39	3010636	1	Clip, Motor	
40	3010637	1	Clip, Motor	

> Change from previous revision

GREENS KING V

42.1 Reel Assembly (Continued)

Serial No. 67024 All
Serial No. 68630 All

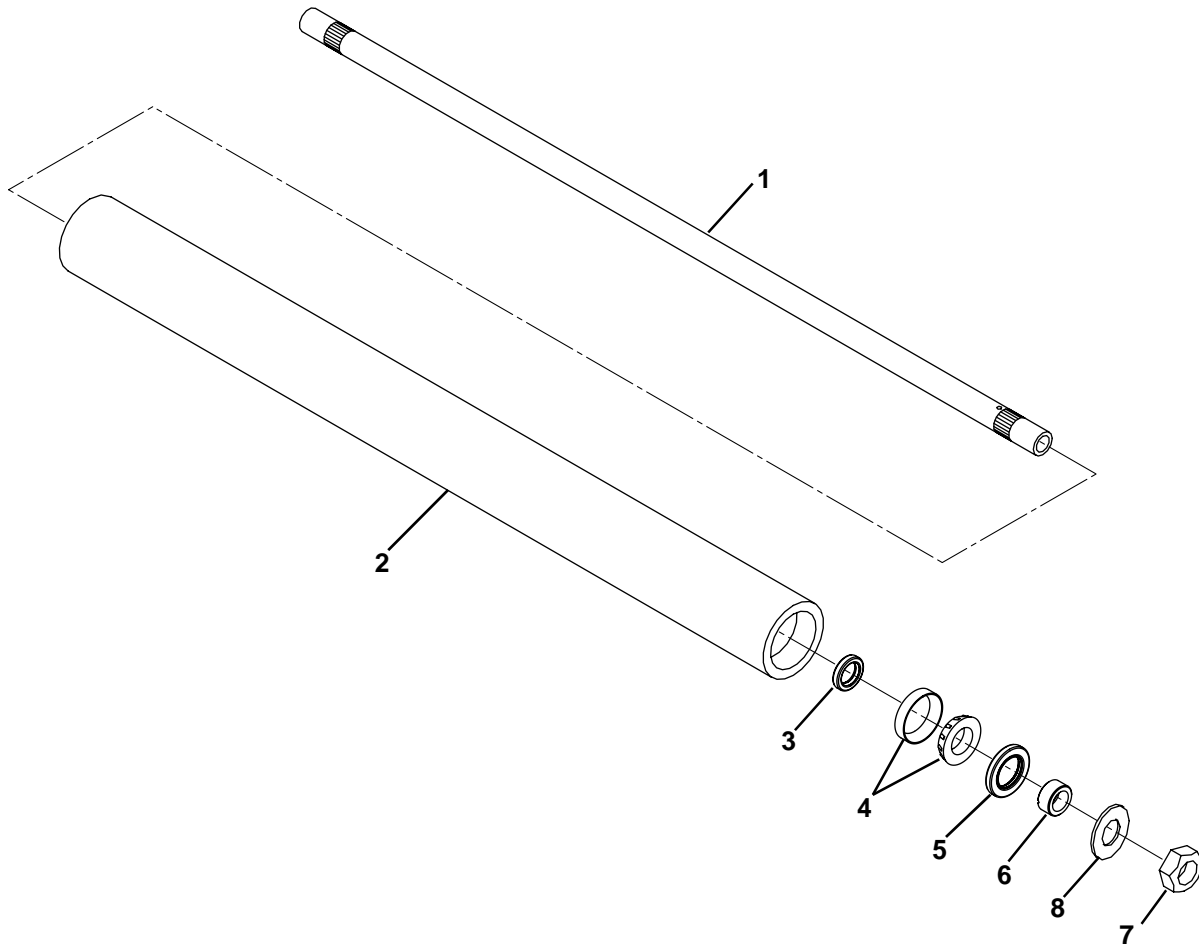


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000770	1	Rear Roller	68630 Only, See 43.1
1	162916	1	Rear Roller	67024 Only, See 44.1
2	1002224	2	Zerk Bolt	
3	446142	2	Lockwasher, 3/8 Heavy	
4	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
5	452008	2	Flat Washer, 3/8	
6	345510	2	Spacer	
7	2000065	1	Casting, Counterweight	
8	446130	4	Lockwasher, 1/4 Heavy	
9	400110	2	Screw, 1/4-20 x 7/8" Hex Head	
10	390950	1	Shield, Reel	
11	400106	2	Screw, 1/4-20 x 5/8" Hex Head	
12	443102	4	Nut, 1/4-20 Hex	
13	453023	2	Washer, 1/4	
14	343616	2	Stud	
15	67841	3	Grass Catcher	
	338654	1	• Catcher Stop, Right Side	
	338655	1	• Catcher Stop, Left Side	
	404016	6	• Screw, 1/4-20 x 5/8" Truss Head	
	453023	6	• Flat Washer, 1/4	
	444708	6	• Locknut, 1/4-20 Center	
16	3005692	2	Knob, Front Roller Adjusting	
17	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
18	446136	2	Lockwasher, 5/16 Heavy	
19	443106	2	Nut, 5/16-18 Hex	
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	122786	1	Left Side Lift Yoke	
24	122787	1	Right Side Lift Yoke	
25	1000362	1	Cneter Lift Yoke	
26	158568	1	Gauge, Bedknife (Not Swown)	

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43.1 Rear Roller

Part Number 1000770

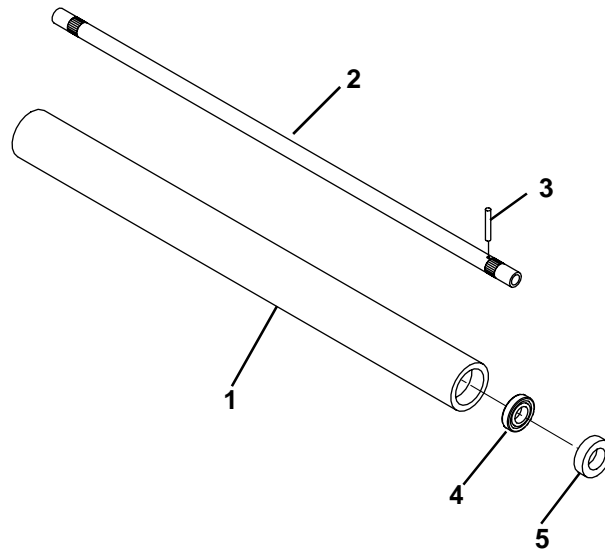


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001654	1	Shaft, Roller	
2	3001655	1	Tube, Roller	
3	3001656	2	Seal, Grease	
4	5000625	2	Bearing, Cup and Cone	
5	3000983	2	Seal, Grease	
6	3001762	2	Sleeve, Wear	
7	445718	2	Locknut, 5/16-18 Stover	
8	3000698	2	Washer	

> Change from previous revision

44.1 Rear Roller

Part Number 162916

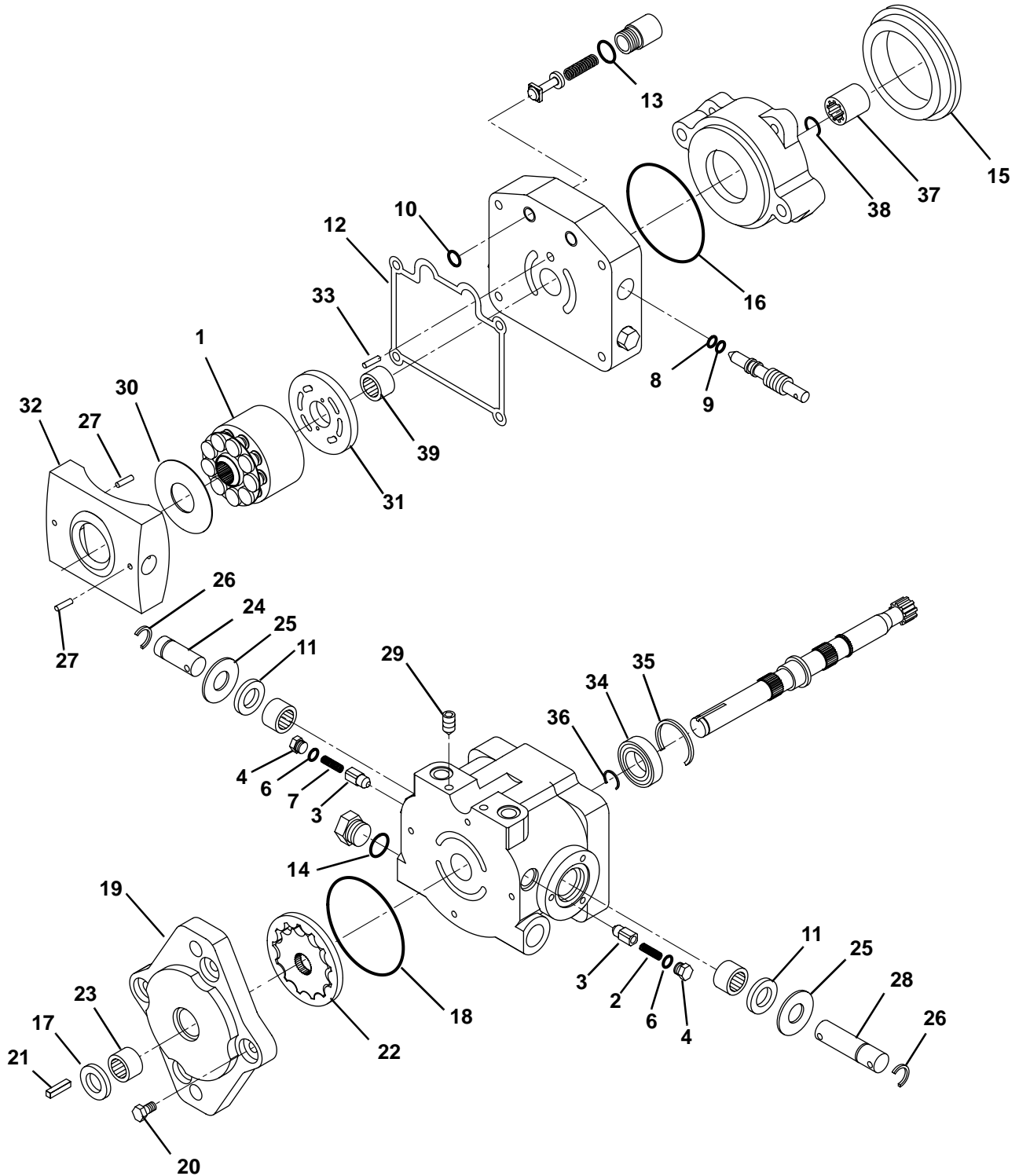


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002814	1	Roller Tube	
2	345369	1	Shaft	
3	461359	2	Roll Pin	
4	303558	2	Bearing	
5	305115	2	Seal	

> Change from previous revision

45.1 Hydrostatic Pump

Part Number 123299



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	156287	1	Cylinder Block Kit	
	N/S	1	• Slipper Retainer	
	N/S	9	• Piston Assembly	
	502847	1	Implement Relief Valve Kit	Includes Items 2 ~ 6
2	N/S	1	• Implement Relief Spring	
3	N/S	1	• Relief Valve	
4	N/S	1	• Plug	
5	N/S	1	• Relief Shim Kit (Not Shown)	
● 6	N/S	1	• O-Ring	
	502846	1	Charge Relief Valve Kit	Includes Items 3 ~ 6 and 7
7	N/S	1	• Charge Relief Spring	
	5002068	1	Seal Kit	Includes Items marked ●
● 8	N/S	1	• O-Ring, Tow Valve	
● 9	N/S	1	• Back Up Ring, Tow Valve	
● 10	N/S	2	• O-Ring, Check Valve	
● 11	N/S	2	• Lip Seal, Trunion Shaft	
● 12	N/S	1	• Gasket, Variable Housing	
● 13	N/S	1	• O-Ring, Check Valve Plug	
● 14	N/S	1	• O-Ring, Plug	
● 15	362743	1	• O-Ring, Pump Mounting	
● 16	N/S		• O-Ring, Adapter Flange	
	5003450	1	Charge Pump Kit	
17	N/S	1	• Lip Seal	
18	N/S	1	• O-Ring, Charge Pump Housing	
19	N/S	1	• Charge Pump Cover	
20	N/S	4	• Screw, Charge Pump Mounting	
21	5002062	1	• Key, Input Shaft	
22	N/S	1	• Gerotor Assembly	
23	551048	1	• Needle Bearing	
24	558127	1	Trunion Shaft	
25	333846	2	Washer	
26	333845	2	Retaining Ring	
27	349577	3	Spring, Coiled Pin	
28	333835	1	Trunion Shaft	
29	590063	2	Pipe Plug	
30	333844	2	Thrust Plate	
31	5002063	1	Valve Plate	
32	333831	1	Swash Plate	
33	333855	1	Pin	
34	333837	1	Ball Bearing	
35	360803	1	Retaining Ring	
36	5002065	1	Retaining Ring	
37	5002066	1	Coupler	
38	5002067	1	Retaining Ring	
39	558136	1	Roller Bearing	

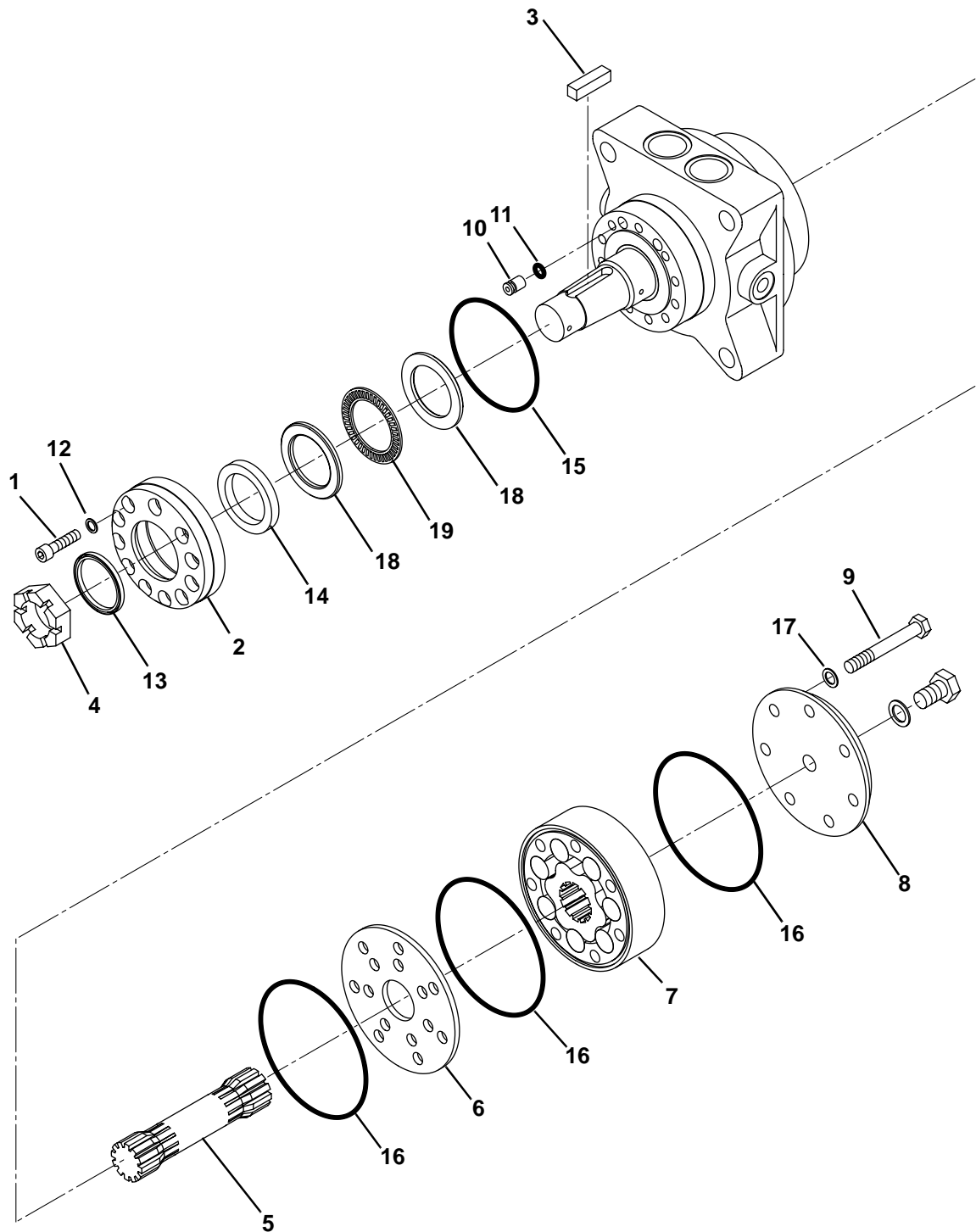
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GREENS KING V

Serial No. All

46.1 Wheel Motors

Part Numbers 1001252 and 1001253



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5001634	11	Screw M6-1 x 25 mm Soc Head	
2	5002965	1	Flange, Spigot	
3	5001640	1	Key, 5/16 x 5/16 x 1"	
4	5001639	1	Nut, Castle	
5	5001641	1	Shaft, Cardon	
6	5001642	1	Distributor Plate	
7	5001643	1	Gear Wheel Set	
8	5001644	1	Cover, End	
9	5002966	7	Screw, M8-1 x 60 mm Hex Head	
10	5001646	2	Valve, Check	
11	339896	2	• O-Ring	
	5001700	1	Seal Kit	
12	N/S	11	• Washer, M6	
13	N/S	1	• Seal, Dust	
14	N/S	1	• Seal, Shaft	
15	N/S	1	• O-Ring, Spigot Flange	
16	N/S	3	• O-Ring	
17	N/S	7	• Washer, M8	
	5002144	1	Bearing Assembly Kit	
18	N/S	2	• Bearing, Race	
19	N/S	1	• Bearing, Needle	

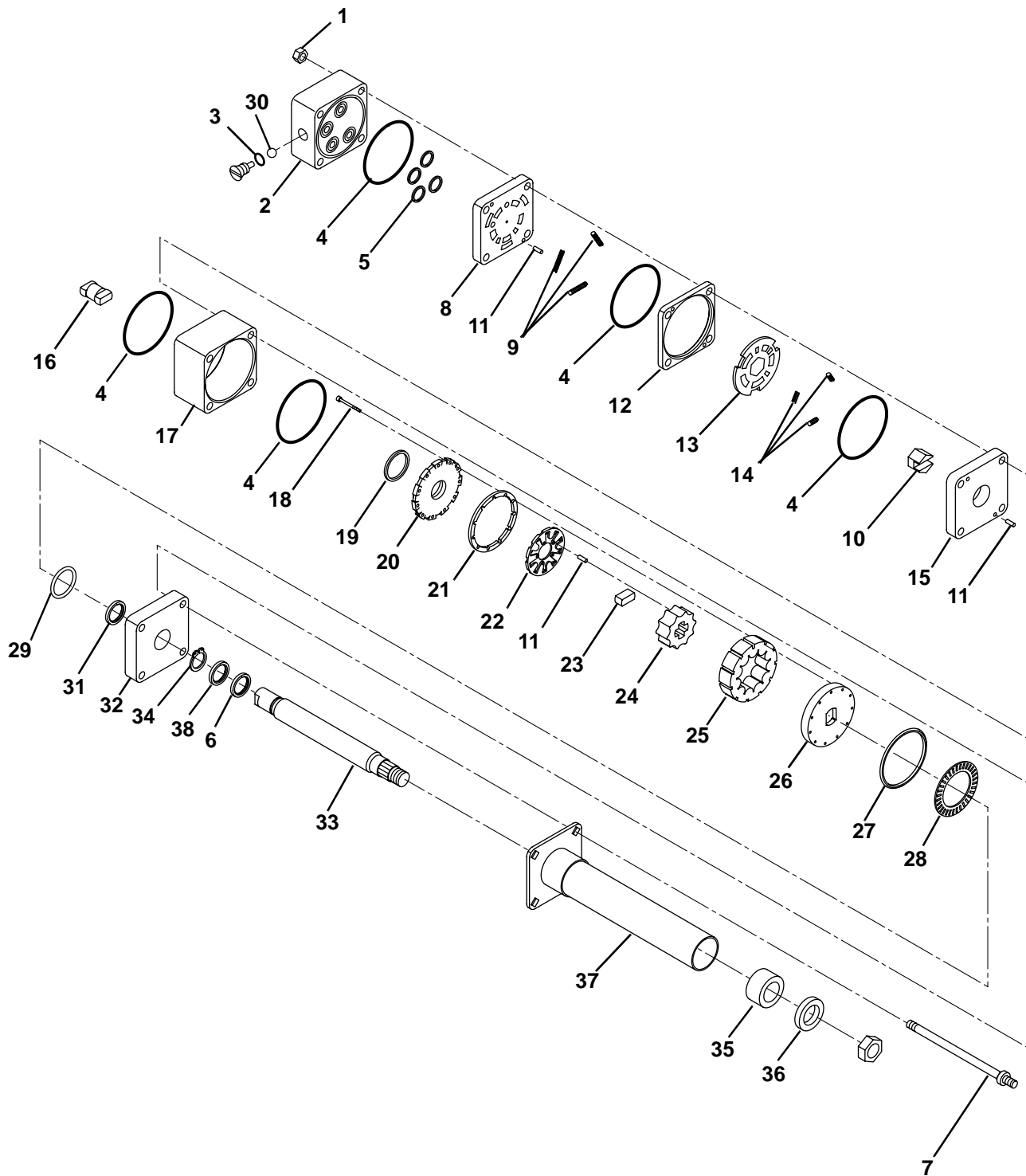
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Serial No. All

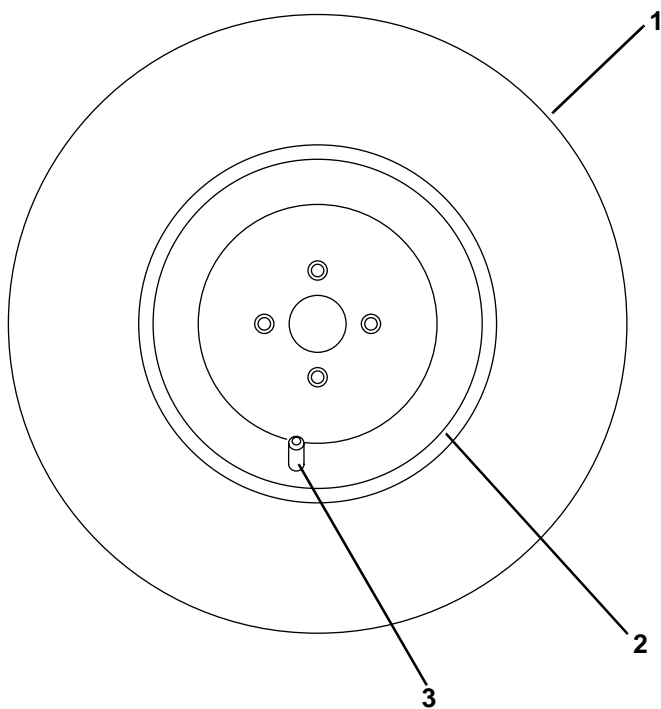
47.1 Steering Valve

Part Number 132914



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	443108	4	Locknut, 5/16-18 Center	
2	5002074	1	Port Cover	
3	C	1	Seal, O-Ring	
4	C and E	5	Seal, O-Ring	
5	C	4	Seal, O-Ring	
6	D	1	Plate, Retaining	
7	5002056	4	Special Bolt	
8	E	1	Port Manifold	
9	B and E	3	Spring, Port Side	
10	E	1	Hex Drive	
11	E	9	Needle Roller	
12	E	1	Valve Ring	
13	E	1	Valve Plate	
14	B and E	3	Spring, Shaft Side	
15	E	1	Isolation Manifold	
16	551105	1	Drive Link	
17	5002051	1	Metering Ring	
18	A	11	Screw, 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	
24	A	1	Rotor	
25	A	1	Stator	
26	A	1	Drive Plate	
27	554855	1	Spacer	
28	554856	1	Thrust Bearing	
29	C	1	Face Seal	
30	5002075	1	Ball, 7/32"	
> 31	554857	1	Seal, Spacer	
32	5000427	1	Upper Cover Plate	
33	D	1	Shaft	
34	5002054	1	Retaining RIng	
35	D	1	Bushing	
36	D	1	Seal	
37	D	1	Jacket	
38	5002055	1	Washer, Retaining Plate	
Service Kits				
A	5002059	1	Metering Assembly Kit	
B	502924	1	Spring Kit	
C	557738	1	Seal Kit	
D	5002058	1	Jacket Tube Kit	
E	5002060	1	Valve and Manifold Kit	

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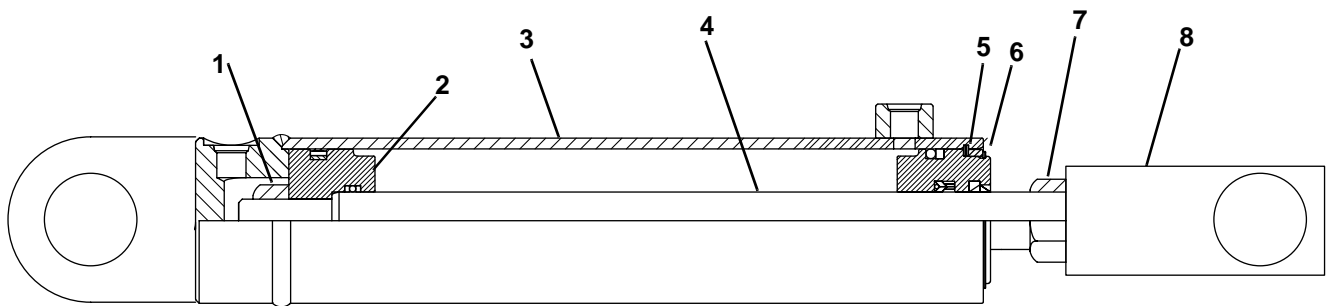


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5000910	1	Tire	
2	5002606	1	Wheel	
3	360111	1	Valve	

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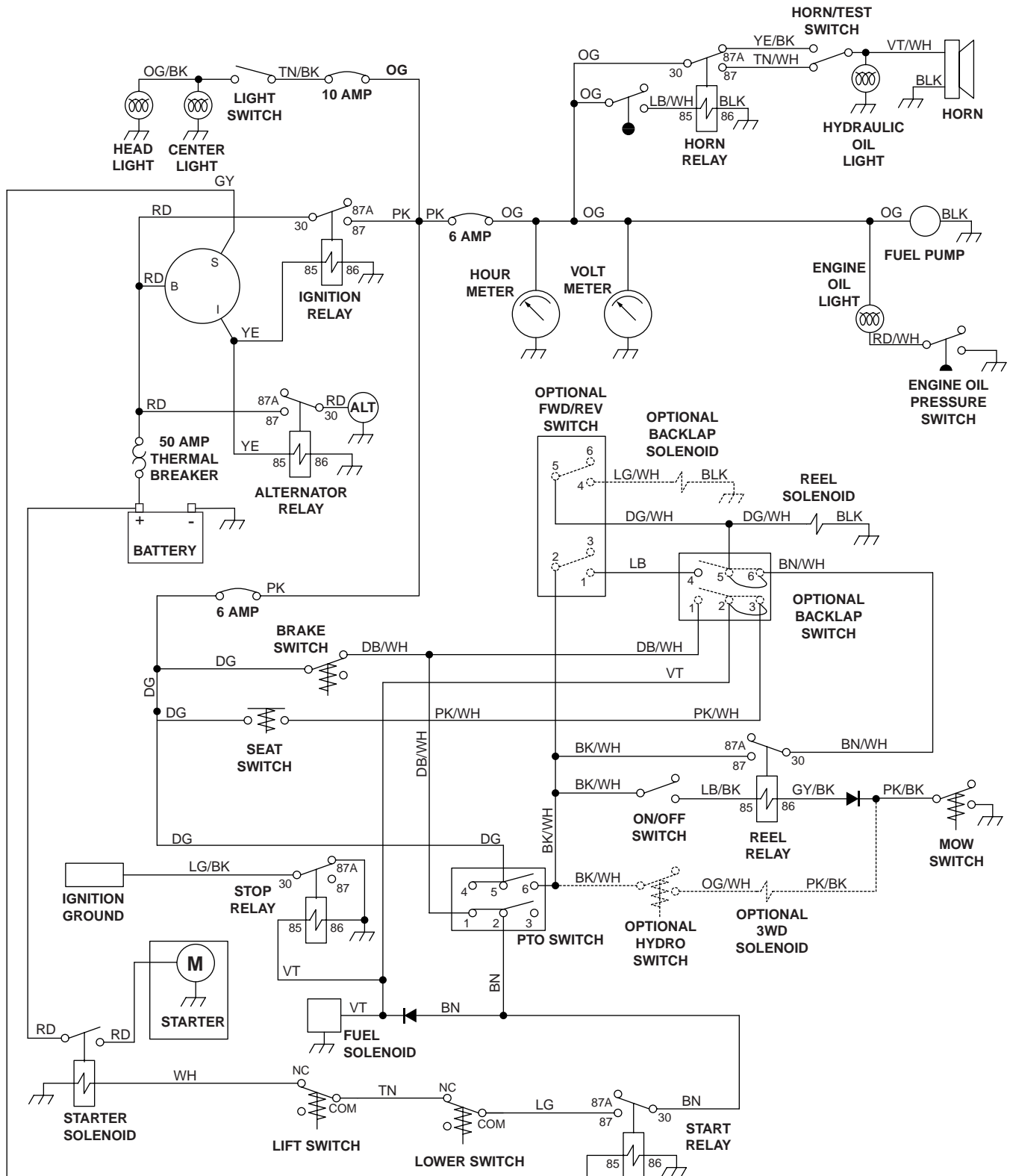
49.1 Lift Cylinder

Part Number 131450

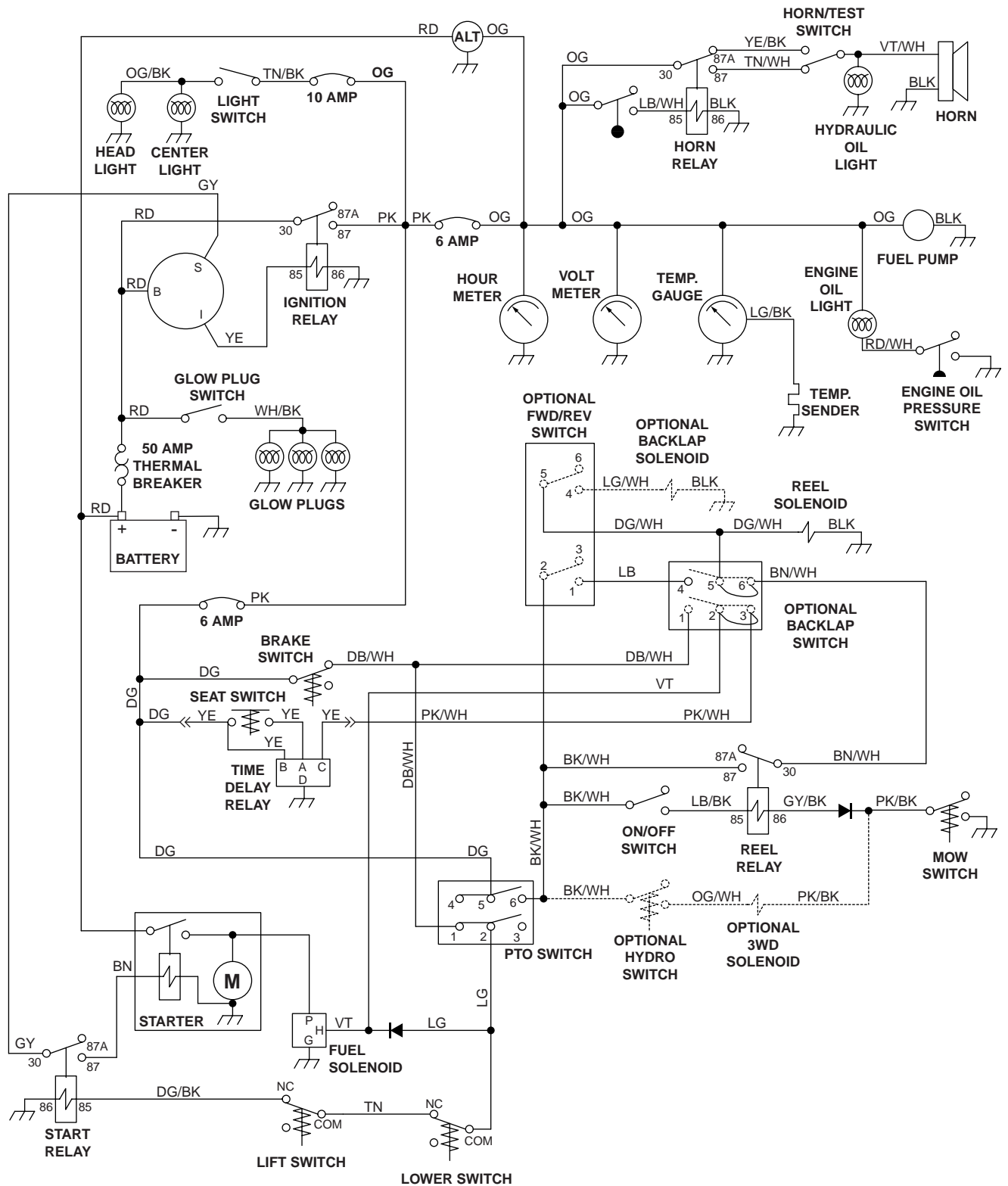


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	590287	1	Nut	
2	551067	1	Piston	
3	502896	1	Cylinder Tube	
4	551068	1	Rod	
5	551069	1	Spacer	
6	551070	1	Lock Ring	
7	546526	1	Nut, 1" Jam	
8	546800	1	External Collar	
	5002895	1	Seal Kit	Gold Star Cylinders Only
	5003661	1	Seal Kit	HDM Cylinders Only

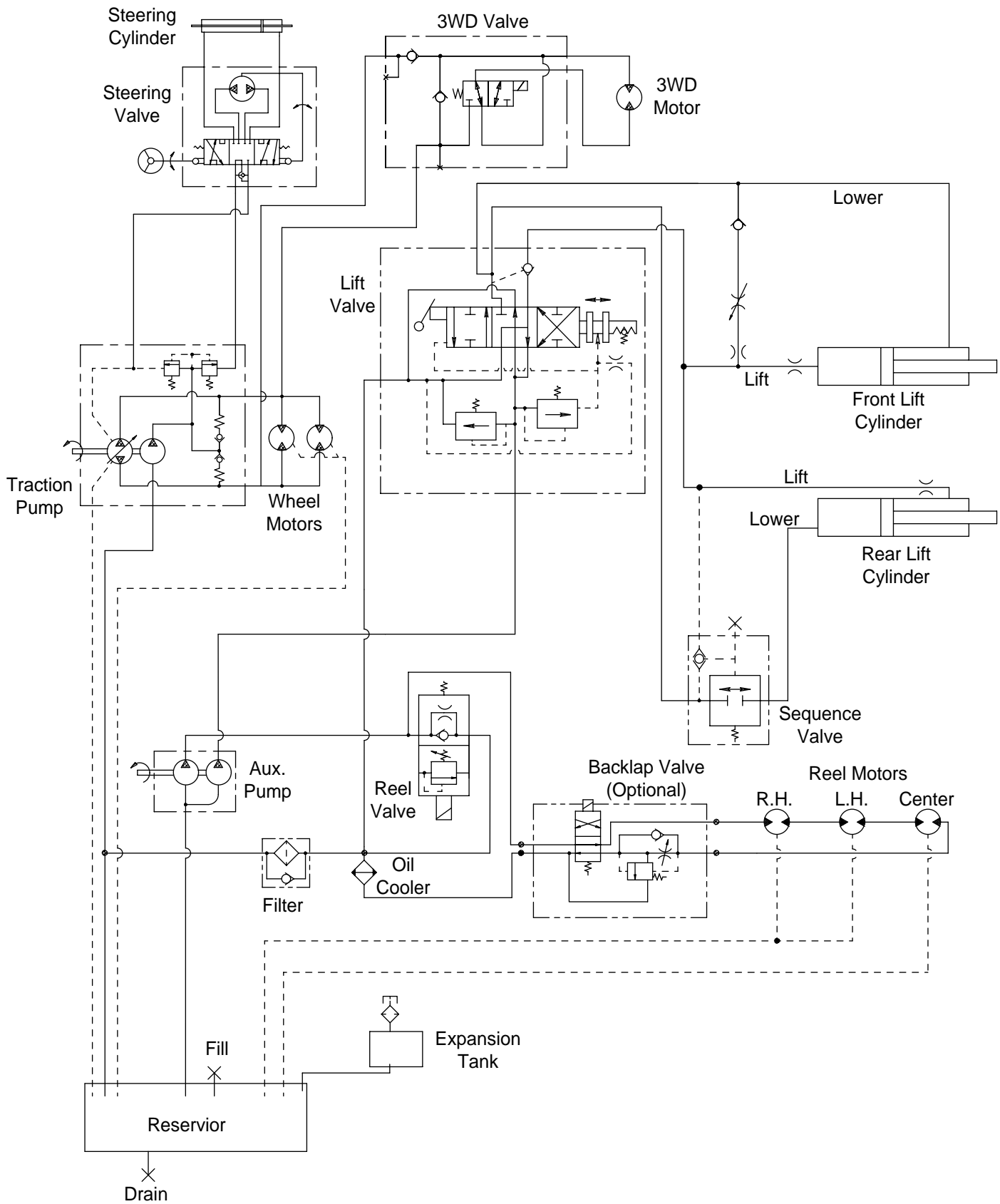
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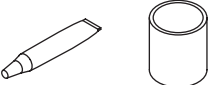
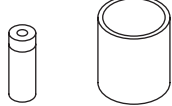
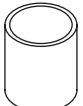
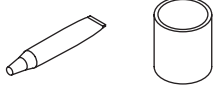

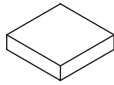
51.1 Diesel Units Electrical Schematic



52.1 Hydraulic Schematic



Fluids and Compounds

Hydraulic Fluid*		
5001405	Two 2-1/2 Gallon Container of ISO VG68 Oil	
5001404	One 5 Gallon Pail of ISO VG68 Oil	
502696	Two 2-1/2 Gallon Container of 10W30 Oil	
502693	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	
2-Cycle Oil		
554600	Twenty Four 16 Ounce Plastic Container	
554599	Twenty Four 8 Ounce Plastic Container	
Grease		
5000067	One 5 Gallon Pail OO-Grease	
5000068	Twenty Four 8 Ounce Tube OO-Grease	
Paint		
5003469	16 Ounce Gray Aerosol	
554598	Six 12 Ounce Orange Aerosol	
546408	Twelve 1 Quart Can Orange	
546409	Two 1 Gallon Can Orange	
Lapping Compound		
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	
Specialty Compound		
365422	5.3 Ounce Tube of Electrical Insulating Gel	
5001581	14 Ounce Can of Lubriplate Multi Lube A	
Biodegradable		
5003102	One 55 Gallon Drum Jacobsen Greens Care 68	
5003103	One 5 Gallon Pail Jacobsen Greens Care 68	
5003105	One 55 Gallon Drum Jacobsen Greens Care 46	
5003104	One 5 Gallon Pail Jacobsen Greens Care 46	
5003106	Twenty Four 14 Ounce Tube Greens Care Grease	
O-Ring Kit		
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)	
Fuel Cans		
554948	One 2.5 Gallon Plastic	
554949	One 5 Gallon Plastic	
Right Start Kit for New Machines		
See your local Jacobsen distributor		
On-Time Maintenance Kit		
See your local Jacobsen distributor		

* Refer to the Operator's 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 distributor for a copy.

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