



4279832 Rev A



Parts & Maintenance Manual

Greens King™ IV Plus with ROPS

62304 – D722-E3B Kubota® Engine
Serial Number 2018 and Up

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.



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GB

FOREWORD

This manual contains adjustment, maintenance, troubleshooting instructions, and parts list for your new Jacobsen mower. This manual should be stored with the mower for reference during operation.

Before you operate your mower, you and each operator you employ should read the manual carefully in its entirety. By following the safety, operating, and maintenance instructions, you will prolong the life of your mower and maintain its maximum efficiency.

If additional information is needed, contact your Jacobsen Dealer.

The serial plate is attached to the frame near the battery. Jacobsen recommends you record these numbers below for easy reference.



Suggested Stocking Guide

To keep your mower 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
 - Regular Mail
 - Overnight
 - 2nd Day

3. Order by the quantity desired, the part number, and the description of the part.
4. Send or bring the order to your authorized Jacobsen Dealer.

Service Parts

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

Service Support Material

Qty.	Part No.	Description
	4212747	Safety & Operation Manual
	4279832	Parts & Maintenance
	4191631	DVD, Operator Training

Qty.	Description
	Service Manual

These are the original instructions verified by Jacobsen, A Textron Company.

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Proposition 65 Warning

This product contains or emits chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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1 SAFETY

1.1 OPERATING SAFETY



WARNING

EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.

Familiarize yourself with the location and proper use of all controls. Inexperienced operators 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 & Operation Manual, Engine Manual, and attachments/accessories instruction sheets). If the operator cannot 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. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Jacobsen.
7. Stay alert for holes in the terrain and other hidden hazards.
8. 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.
9. 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.
10. Do not carry passengers. Keep bystanders and pets a safe distance away.
11. 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.
12. Never disconnect or bypass any switch.
13. Do not change the engine governor setting or overspeed the engine.
14. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation or in an enclosed area.
15. Fuel is highly flammable; handle with care.
16. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
17. 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.
18. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads. Watch out for traffic when crossing or operating on or near roads.
19. Local regulations may restrict the age of the operator.
20. Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
21. Operate the machine up and down the face of slopes (vertically), not across the face (horizontally).
22. To prevent tipping or loss of control, do not start or stop suddenly on slopes. Reduce speed when making sharp turns. Use caution when changing directions.
23. Always use the seat belt when operating mowers equipped with a Roll Over Protective Structure (ROPS).
Never use a seat belt when operating mowers without a ROPS.
24. Always disconnect battery cables from battery before performing any welding operation on the mower.

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.

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

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



WARNING

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

NEVER operate mower unless the Interlock System is working.



WARNING

1. Before leaving the operator's position for any reason:
 - a. Return traction lever to Neutral.
 - b. Disengage all drives.
 - c. Lower all implements to the ground.
 - d. Engage parking brake.
 - e. Stop engine and remove the ignition key.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust, or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Never carry passengers.

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

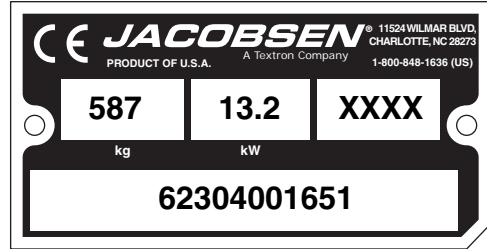
If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service.

2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

- 62304 Greens King IV Plus, 17.7 hp diesel engine, power steering. Without reels.
- Serial Number An identification plate, like the one shown, listing the serial number, is attached to the frame of the mower near the battery.

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



Product	EEC Sound Power	Sound Pressure Level Operator Ear	Vibration M/S ²	
			Arms	Body
62304	102 dBa	87 dBa	2.03	0.52

2.2 ENGINE

- Make Kubota
- Model D722-E3B
- Horsepower 17.7 hp (13.2 kW) @3200 rpm
- Displacement 40.03 cu. In. (719 cc)
- Torque 26 ft. lbs. (35 Nm) @ 2600 rpm
- Fuel:
- Type No. 2 Low or Ultra Low Sulfur 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 14 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, 9 or 11 blades
- Cutting Width 62 in. (1574 mm)

- Cutting Frequency:
- 7 Blade 0.084 in./mph (1.33 mm/kph)
- 9 Blade 0.065 in./mph (1.03 mm/kph)
- 11 Blade 0.053 in./mph (0.84 mm/kph)

2.4 MOWER

Tires	18 x 9.5 - 8 tubeless	Speed:	
Tire Pressure:		Mow	0 - 3.7 mph (5.9 kph)
Front	10-12 psi (0.69-0.83 BAR)	Transport	0 - 6.6 mph (10.6 kph)
Rear	8-10 psi (0.55-0.69 BAR)	Reverse.....	0 - 3.5 mph (5.6 kph)
Battery:		Hydraulic System:	
Type	12 Volt Lead/Acid	Capacity.....	5 U.S. gal. (19 liters) System
Group	22 GMF	Fluid Type	GreensCare 46 Biodegradable
Parking Brake.....	Mechanical front drum brakes	Filter.....	Full Flow 20 micron
	Hand lever actuated	Steering	Hydrostatic power steering
		Mower Lift	Hydraulic Double Acting Cylinders

2.5 WEIGHTS AND DIMENSIONS

Dimensions:	Inches	(mm)		
Length - Grass Catchers On	99.5	(2526)	Width - Wheel	50.5 (1283)
Height - Top of ROPS.....	78	(1981)	Turning Radius.....	18 (457)
Wheel Base.....	52.8	(1341)	Weights:	Lbs. (kg)
Width - Transport Position	68	(1727)	Working Weight Less Operator	
Width - Mowing Position.....	70	(1778)	62304	1468 (666)

2.6 ACCESSORIES & SUPPORT LITERATURE

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



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

Accessories

Orange Touch-up Paint (12 oz. spray)	554598
Arm Rest	4139431
Grass Catcher	67891
Brush, 62 in.....	68623
Fine Bristle Brush.....	68536
Green Sentry II Oil System Monitor	68669
Light Kit	2811910
Motor / Light / Brush Mounting Kit.....	2811909
Rear Roller Cleaner	68643
Quick Roller (Set of 3).....	68664
Spiker (Set of 3)	68665
Traction Tire (Set of 2).....	62616
Turf Groomer 1/4 in. Spacing R.H. (2 Required).....	67911
Turf Groomer 1/4 in. Spacing L.H. (1 Required)	67912
Turf Groomer 1/2 in. Spacing R.H. (2 Required).....	67913
Turf Groomer 1/2 in. Spacing L.H. (1 Required)	67914
Vertical Mower L.H. (1 Required)	68549
Vertical Mower R.H. (2 Required)	68550
Variable Step Cut	68551
High Cut Roller Kit	68634
MAGSystem™ Kit	4158083

Reels

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

Rollers

Grooved Front Roller	68527
Solid Roller	68530
Segmented Front Roller.....	68673
Grooved Front Roller (Steel).....	68613
Grooved Front Roller (Aluminum)	68614
Grooved Rear Roller.....	68580

Support Literature

Safety & Operation Manual.....	4212747
Parts & Maintenance Manual.....	4279832
Diesel Engine Parts Catalog.....	4189622
Operator Training Video	4191631
Service & Repair Manual.....	4171649

2 SPECIFICATIONS

2.7 DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY • ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ • PROHLÁŠENÍ O SHODĚ • OVERENSSTEMMELSESERKLÆRING • CONFORMITEITSVERKLARING • VASTAVUSDEKLARATSIOON • VAATIMUSTENMUKAISUUSVAKUUTUS • DECLARATION DE CONFORMITE • KONFORMITÄTSEKTLÄRUNG • ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ • MEGFELELŐSÉGI NYILATKOZAT • DICHIARAZIONE DI CONFORMITÀ • ATBILSTĪBAS DEKLARĀCIJA • ΑΤΙΤΙΚΤΙΕΣ ΔΕΚΛΑΡΑΚΙJA • DIKJARAZZJONI TAL-KONFORMITÀ • DEKLARACJA ZGODNOŚCI • DECLARAÇÃO DE CONFORMIDADE • DECLARAȚIE DE CONFORMITATE • VYHLÁŠENIE O ZHODE • IZJAVA O SKLADNOSTI • DECLARACIÓN DE CONFORMIDAD • DEKLARATION OM ÖVERENSSTÄMMELSE

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledig adres van de fabrikant • Toetjja ärinimi ja täielik address • Valmistajan toimintini ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmennamen und vollständige Adresse des Herstellers • Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerdžali u indirizz sñih tal-fabrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială și adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA
Product Code • Код на продукта • Kód výrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Termékkód • Codice prodotto • Produkta kods • Produktu kodas • Kodici tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod	62304
Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenaam • Masina nimi • Laitteen nimi • Nom de la machine • Maschinenbezeichnung • Ονομασία μηχανήματος • Gépnév • Denominazione della macchina • Iekārtas nosaukums • Mašinos pavadinimas • Isem tal-Magna • Nazwa urządzenia • Nome da Máquina • Numele echipamentului • Názov stroja • Naziv stroja • Nombre de la máquina • Maskinens namn	Greens King IV Plus Diesel
Designation • Предназначение • Oznaceni • Betegnelse • Benaming • Nimetus • Tuupimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenie • Namen stroja • Descripción • Beteckning	Lawnmower, Article 12, Item 32
Serial Number • Серийн номер • Sériové číslo • Seriennummer • Seriennummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sérijas numurs • Serijos numeris • Numru Serjali • Numer seryjny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Seriennummer	6230401701-6230402500
Engine • Двигател • Motor • Motor • Motor • Mootor • Moottori • Moteur • Motor • Μηχανή • Modulnév • Motore • Dzinējs • Variklis • Saħħa Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor	Kubota D722-E3B Diesel
Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó béépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt	13,2 kW @ 3200 RPM
Cutting Width • Широчина на рязане • Šifka řezu • Skærebredde • Maai breedte • Löökelauius • Leikkuuleveys • Largeur de coupe • Schnittbreite • Μήκος μιστέρας • Vágási szélesség • Larghezza di taglio • Griešanas platumis • Pjovimo plotis • Tikkonforma mad-Direttivi • Szerokość cejcia • Largura de Corte • Lățimea de tăiere • Šírka záberu • Sirina reza • Anchura de corte • Klippbredd	157 cm
Conforms to Directives • В съответствие с директивите • Splūņje podmĩny smērnĩc • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiivide • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθώτε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktivų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpre as Directivas • Respectă Directivele • Je v súlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv	2004/108/EC 2006/42/EC 2000/14/EC, 2005/88/EC 2006/66/EC
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmĩnek • Överensstemmelsesvurdering • Conformiteitsbeoordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση Συμμόρφωσης • Megfelelőség-értékelés • Valutazione della conformità • Atbilstības novērtējums • Atitikties įvertinimas • Livell tal-Qawwa tal-Foss Imkejjel • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformității • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedömning av överensstämmelse	2006/42/EC Annex VIII
Measured Sound Power Level • Измерено ниво на звукова мощност • Naměřený akustický výkon • Målte lydstyrkeniveau • Gemeten geluidsniveau • Mõõdetud helivõimsuse tase • Mitattu äänitehotaso • Niveau de puissance sonore mesuré • Gemessener Schalldruckpegel • Σταθμισμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērtais skaņas jaudas līmenis • Išmatuotas garso stiprumo lygis • Livell tal-Qawwa tal-Foss Iggarantit • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hlada akustiského výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medida • Uppmätt ljudeffektsnivå	102 dB(A) LWA
Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garanteeritud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garantierter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotas garso stiprumo lygis • Livell tal-Qawwa tal-Foss Iggarantit • Moc akustyczna gwarantowana • Nivel sonoro farantido • Nivelul garantat al puterii acustice • Garantovanā hlada akustiského výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå	102dB(A) LWA
Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmĩnek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenettely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Procedura tal-Valutazzjoni tal-Konformità (Foss) • Procedura oceny zgodności (poziom hałas) • Processo de avaliação de conformidade (nivel sonoro) • Procedura de evaluare a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller)	2000/14/EC Annex VI, Part 1
UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/EO • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Issosa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/EK • 2000/14/EK – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK registrētā organizācija • JK notifikuotais istaigos 2000/14/EC • Korp Notifikat tar-Renju Unit għal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného královstva pre smernicu 2000/14/ES • Britanski priglašeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien	Number: 1088 Sound Research Laboratories Limited Holbrook House, Little Walsingham Sudbury, Suffolk CO10 0TH
Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti ušĩ operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Múratase operatoari kõrvnas • Melutaso käyttäjän korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επίπεδο θορύβου σε λειτουργία • A kezelő füleinél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Trokšņa lĩmenis pie operatora ausĩ • Dirbanĩciojs uz mašĩna patriamio triukšmo lygis • Livell tal-Foss fil-Widna tal-Operatur • Dopuszczalny poziom hałas u operatora • Nivel sonoro nos ovidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiacia na sluch operátora • Raven hrupa pri úšesu upravljavca • Nivel sonoro en el oĩdo del operador • Ljudnivå vid förarens öra	87 dB(a) Leq (2006/42/EC)

<p>Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standarts armonizzati uzati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uprabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används</p>	<p>BS EN ISO 20643 BS EN ISO 5349-1 BS EN ISO 5349-2 BS EN 836</p>
<p>Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmät • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehnikskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standarts u specifikkazzjonijiet tehnici uzati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice și specificațiile utilizate • Použité technické normy a špecifikácie • Uprabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används</p>	<p>B71.4 ISO 2631-1 ISO 21299</p>
<p>The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklarācijas vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul și data declarației • Miesto a dátum vyhlášení • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen</p>	<p>Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA January 1, 2011</p>
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<p>Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru tač-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer</p>	<p>4212746 Rev B</p>

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

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

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

adjustment cannot be made, contact an authorized Jacobsen Dealer.

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

CAUTION

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

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

3.2 BEDKNIFE-TO-REEL

(Pre-adjustment Check)

1. Check the reel bearings for end play or radial play. There should be no end play or radial play. See **Section 3.14**.

2. Inspect the reel blades and bedknife to insure good sharp edges without bends or nicks.

- a. The leading edge of the reel blades (**B**) must be sharp, free of burrs and show no signs of rounding off.
- b. The bedknife and bedknife backing must be securely tightened. The bedknife must be straight and sharp.
- c. A flat surface of at least 1/16 in. (1.5 mm) minimum must be maintained on the front face of the bedknife. Use a standard flat file to dress the bedknife.

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

4. Proper reel-to-bedknife adjustment is critical. A gap of 0.001 to 0.003 in. (0.025 to 0.076 mm) must be maintained across the entire length of the reel and bedknife.

5. The reel must be parallel to the bedknife. An improperly adjusted reel will lose its sharp edges prematurely and may result in serious damage to the reel and bedknife.

6. Grass conditions will also affect the adjustment.

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

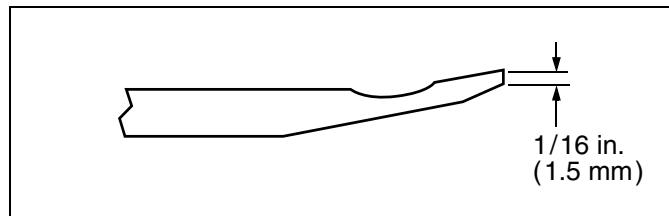


Figure 3A

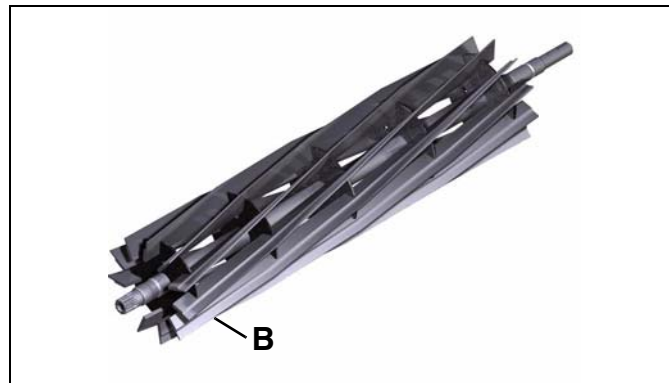


Figure 3B

3.3 BEDKNIFE ADJUSTMENT

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

CAUTION

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

3. Use adjusters **(A and B)**, to adjust gap. Loosen bottom adjuster **(B)** and turn top adjuster **(A)** down (Clockwise) to close gap.
 - a. Slide a feeler gauge or shim stock 0.001 - 0.003 in. (0.025 - 0.076 mm) between the reel blade and the bedknife. Do not turn the reel.
 - b. Adjust the trailing end of the reel to the same gap in a similar manner then recheck the adjustment at the leading end.

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

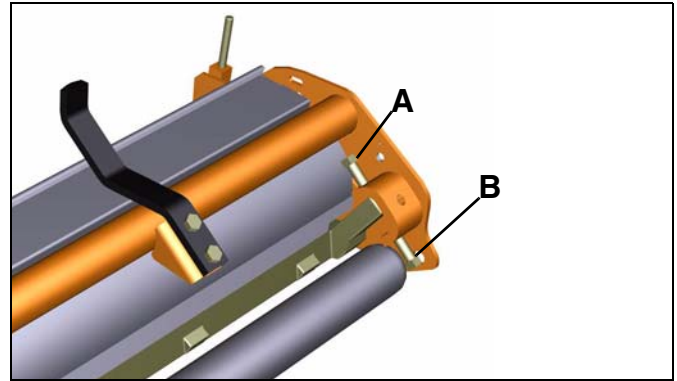


Figure 3C

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

3.4 CUTTING HEIGHT

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

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

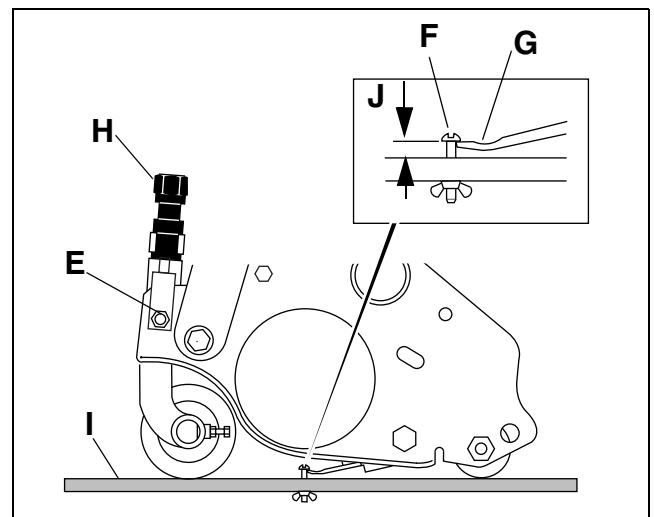


Figure 3D

3 ADJUSTMENTS

3.5 ANTISWAY SPRING

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

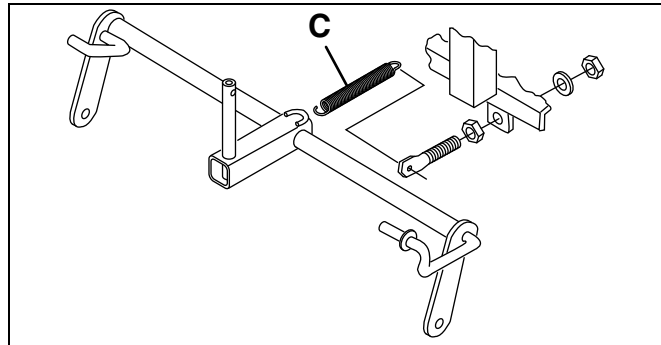


Figure 3E

3.6 ACCELERATOR PEDAL

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

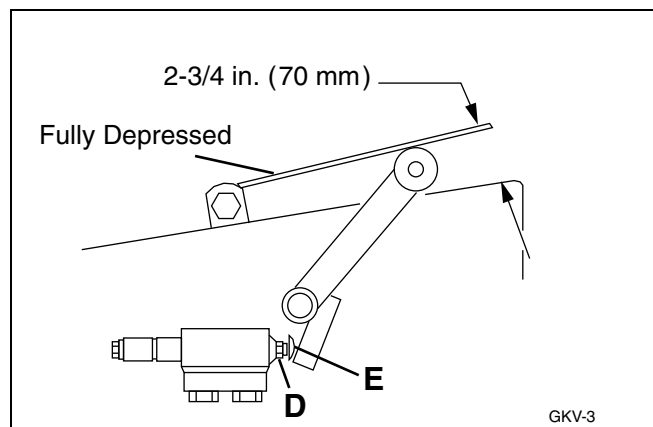


Figure 3F

3.7 BRAKE PEDAL

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

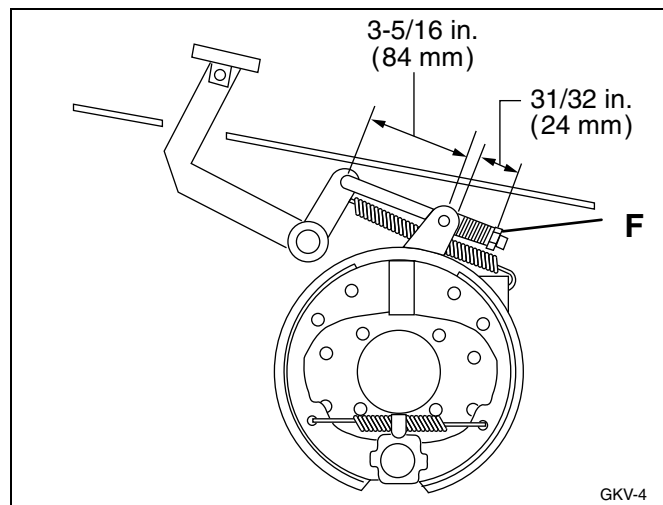


Figure 3G

3.8 PARKING BRAKE

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

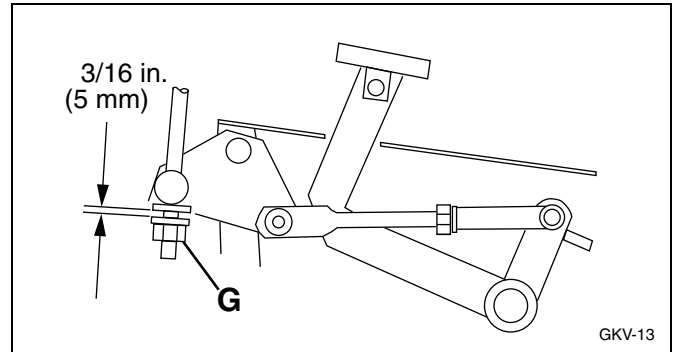


Figure 3H

3.9 INTERLOCK SWITCHES

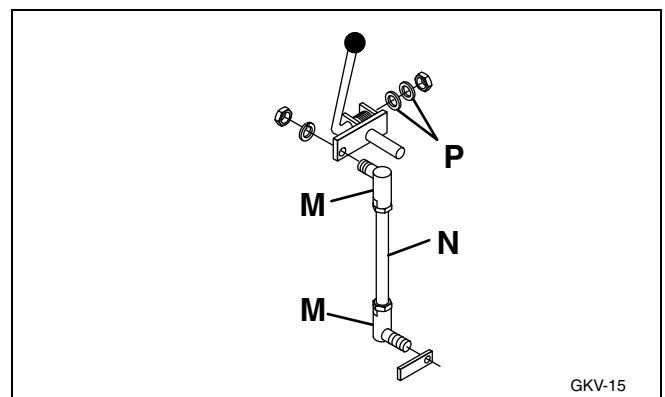
1. Refer to the Interlock System check in your Safety & Operation manual. If the system **fails** any test listed, adjustment or replacement of the switches or levers is required.
2. Remove the front cowling and check the control linkages to be sure they are properly adjusted (Sections 3.8, 3.10 and 3.11).
3. Check switches to make sure they are working properly.

CAUTION

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

3.10 TRACTION LEVER

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



GKV-15

Figure 3I

3 ADJUSTMENTS

3.11 REEL CONTROL

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

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

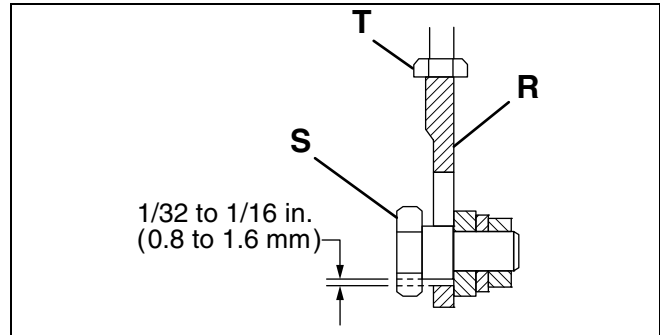


Figure 3J

3.12 REEL SWITCHES

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

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

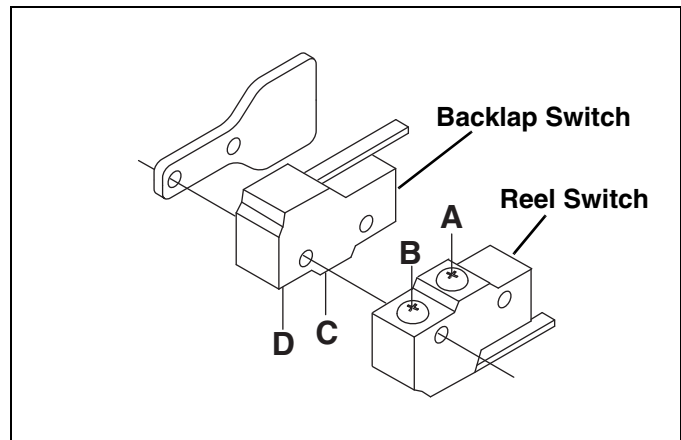


Figure 3K

3.13 LEVELING PROCEDURE

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

WARNING

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

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

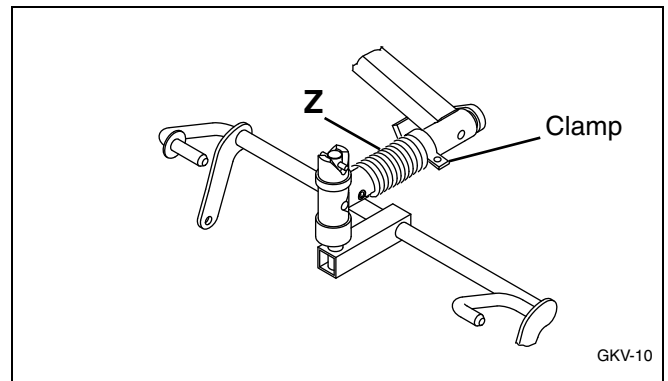


Figure 3L

3.14 REEL BEARING

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

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

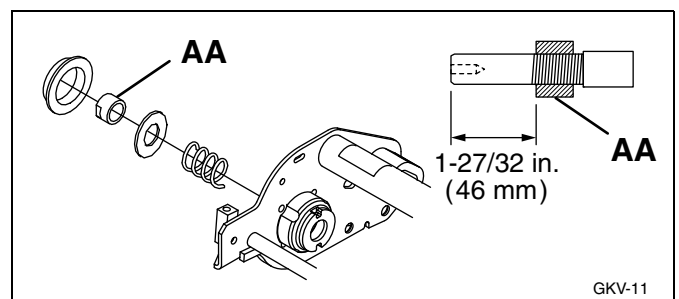


Figure 3M

3.15 FAN BELT

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

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

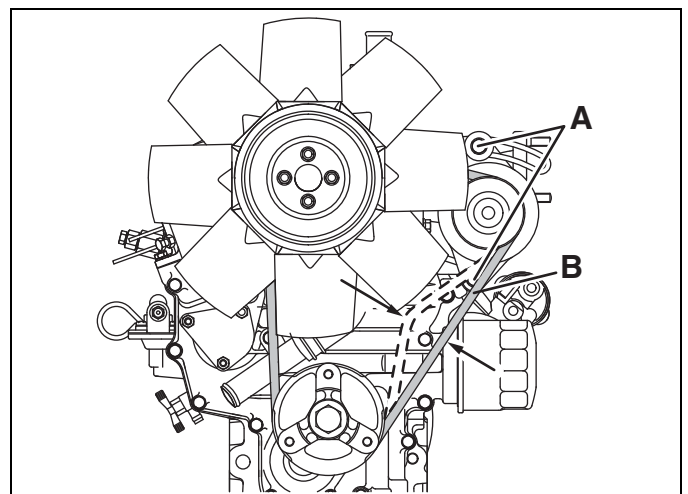


Figure 3N

3 ADJUSTMENTS

3.16 LIFT CYLINDERS

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

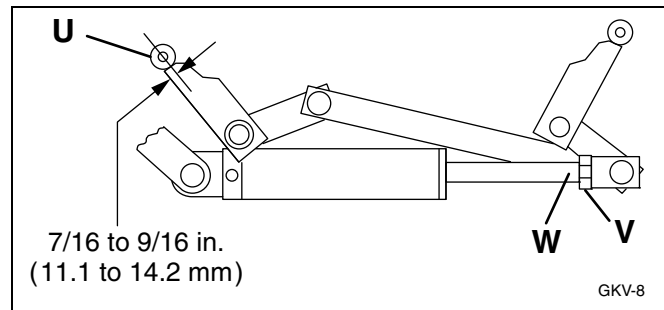


Figure 30

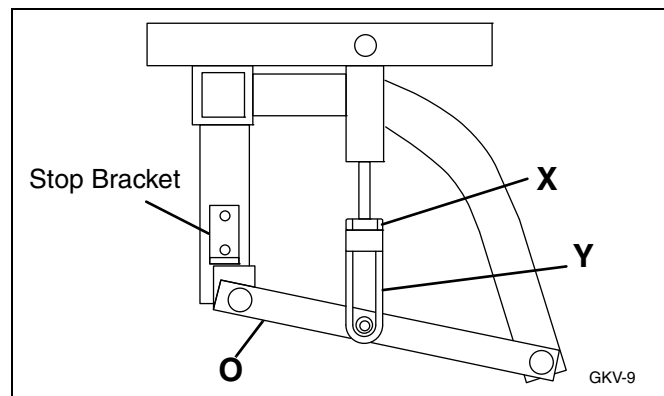


Figure 3P

3.17 SPECIFIC TORQUE REQUIREMENTS





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





3.18 TORQUE SPECIFICATION

NOTICE

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

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

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

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

4 MAINTENANCE

4.1 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.

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

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule and keep detailed records.
 - a. Keep the equipment clean.
 - b. Keep all moving parts properly adjusted and lubricated.
 - c. Replace worn or damaged parts before operating the machine.
 - d. Keep all fluids at their proper levels.
 - e. Keep shields in place and all hardware securely fastened.
 - f. Keep tires properly inflated.
3. Long hair, jewelry, or loose fitting clothing may get tangled in moving parts.
4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to local, state, or federal regulations.

4.2 ENGINE

IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this mower. 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 a replacement Engine Manual 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 mower is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.*

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

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

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

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

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.

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

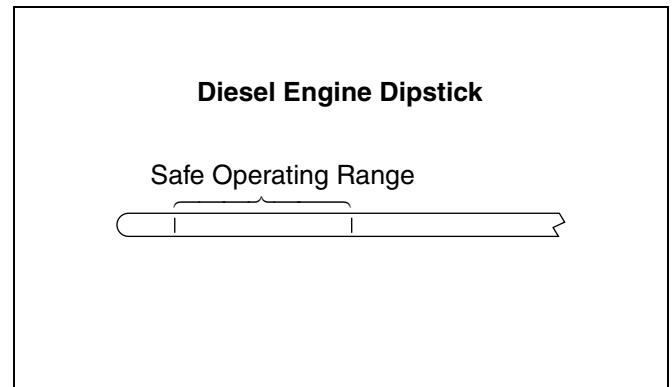


Figure 4A

4.4 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.

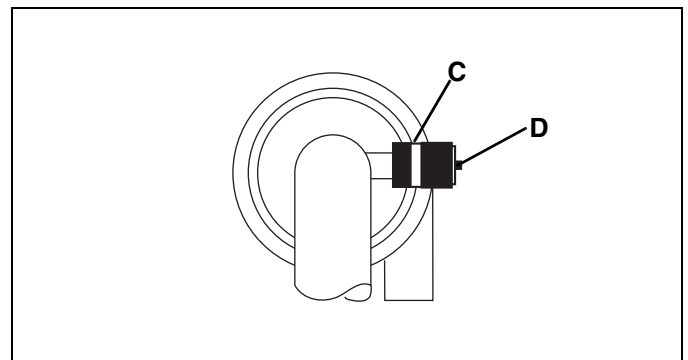


Figure 4B

4 MAINTENANCE

4.5 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.
- Use clean, fresh, #2 low or ultra low sulfur Diesel fuel. Minimum Cetane rating 45. Refer to Engine Manual for additional information.

4.6 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.

4.7 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.

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.

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.

Always disconnect battery cables from battery before performing any welding operation on the mower.

Always disconnect battery cables from battery before performing any welding operation on the groomer.



WARNING

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

4.8 JUMP STARTING

Before attempting to “jump start” the mower, check the condition of the discharged battery. See Section 4.7.

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 mower 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 mower with the discharged battery.

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

4.9 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 4.7**. Read the Battery and Charger’s manual for specific instructions.
2. Whenever possible, remove the battery from the mower 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 MAINTENANCE

4.10 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.

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

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

4.11 HYDRAULIC OIL

Refer to **Section 6.3** for specific maintenance intervals.

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

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

Always replace the hydraulic filter when changing oil.

To change hydraulic oil:

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

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

4.12 HYDRAULIC OIL FILTERS

The hydraulic system is protected by one 20 micron filter.

To replace hydraulic oil filter:

1. Remove the old filter.
2. Fill new filter with oil then install new filter. Hand tighten only.
3. Operate engine at idle speed with hydraulic system in Neutral for five minutes. The oil level alarm may sound during this time (Optional Green Sentry).
4. Check hydraulic oil level in reservoir and fill to full mark on dipstick.

4.13 ELECTRICAL SYSTEM

CAUTION

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

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

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

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

4.14 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.

4.15 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
2. Check the pressure with an accurate, low pressure tire gauge.
3. Keep tires inflated to:
Front - 10-12 psi (0.69-0.83 BAR)
Rear - 8-10 psi (0.55-0.69 BAR)

CAUTION

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

4 MAINTENANCE

4.16 WHEEL MOUNTING PROCEDURE



WARNING

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

If only the front or rear of the mower 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 ensure 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).

4.17 ROLL OVER PROTECTIVE STRUCTURE (ROPS)

A ROPS has been installed on this mower at the factory. Inspect it periodically and follow operating procedures described in the **Safety & Operation Manual**.



CAUTION

Do not loosen or remove bolts. Do not weld, drill, modify, bend, or straighten a damaged rollover protection structure.

1. Regularly inspect the seat, seat belt, mounting hardware, and any accessories within the ROPS. *Replace all damaged parts immediately.*
2. Once the ROPS has been subjected to any form of impact it should be replaced.
3. Check and retorque all hardware. All replacement components used for the ROPS must be as specified in the parts list.

4.18 CARE AND CLEANING

Clean the mower and implements after each use. Keep the equipment clean. Whenever possible, use compressed air to clean mower.

NOTICE

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.
2. Use only fresh water for cleaning your equipment.

NOTICE

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

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

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

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



CAUTION

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



WARNING

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

4.19 RADIATOR

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 (2.1 BAR) maximum) to clean the fins.

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

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

4.20 BACKLAPPING

DANGER

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

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

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

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

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

To Backlap:

1. Adjust bedknife to reel as described in **Sections 3.2 and 3.3**.
2. Obtain the mechanics (Backlap) key.
 - a. Make absolutely certain your feet and clothing are far away from the reel.
 - b. Make sure the parking brake is ENGAGED, reel levers are OFF, backlap switch is OFF, and the traction lever is in Neutral.
3. Turn all three backlapping knobs counterclockwise to open.

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

DANGER

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

4 MAINTENANCE

4.21 STORAGE

General

1. Clean the mower thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the mower, tighten all hardware, replace worn or damaged components.
3. Drain and refill radiator.
4. Clean the tires thoroughly and store the mower so the load is off the tires. If mower is not on jack stands, check tires at regular intervals and reinflate as necessary.
5. Park machine in designated area. Engage parking brake and remove key. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors. Place key in a secure location to prevent unauthorized use of equipment.
6. Keep the machine and all its accessories clean, dry and protected from the elements during storage.

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.

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

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. Open fuel shut off valve and bleed the fuel system.
6. Make certain that the tires are properly inflated.
7. Remove all oil from the reels and bedknife. Adjust bedknife and cutting height.
8. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.



WARNING

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

5.1 GENERAL

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

Symptoms	Possible Causes	Action
Engine will not start.	<ol style="list-style-type: none"> 1. Parking brake disengaged, traction lever not in Neutral or reel lever(s) on. 2. Battery low on charge or defective. 3. Fuel tank empty or dirty. Fuel shut off valve closed. 4. Fuse blown. 	<ol style="list-style-type: none"> 1. Check Interlock system and start-up procedure. 2. Inspect condition of battery and battery connections. 3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. Open fuel shut off valve. 4. Replace fuse.
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 levers to OFF and set traction lever to Neutral before leaving seat.
Engine overheating.	<ol style="list-style-type: none"> 1. Coolant level low. 2. Air intake restricted. 3. Water pump belt broken or loose. 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. Reel Control lever set in reverse 4. Low hydraulic oil. 	<ol style="list-style-type: none"> 1. Inspect bedknife-to-reel adjustment. 2. Check engine speed. Run engine at full throttle. 3. Set reel lever to forward rotation. 4. Check reservoir level and fill if needed.
Mower does not react to traction pedal.	<ol style="list-style-type: none"> 1. Parking brake engaged. 2. Traction lever in Neutral. 3. Low hydraulic oil. 	<ol style="list-style-type: none"> 1. Disengage parking brake. 2. Place lever in desired speed or direction. 3. Check reservoir level and fill if needed.
Gauges/Indicator not operating.	<ol style="list-style-type: none"> 1. Fuse blown, Bulb burnt out. 2. Loose wiring. 	<ol style="list-style-type: none"> 1. Replace fuse, check bulb. 2. Check electrical connections.

6 MAINTENANCE & LUBRICATION CHARTS

6.1 GENERAL

WARNING

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

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

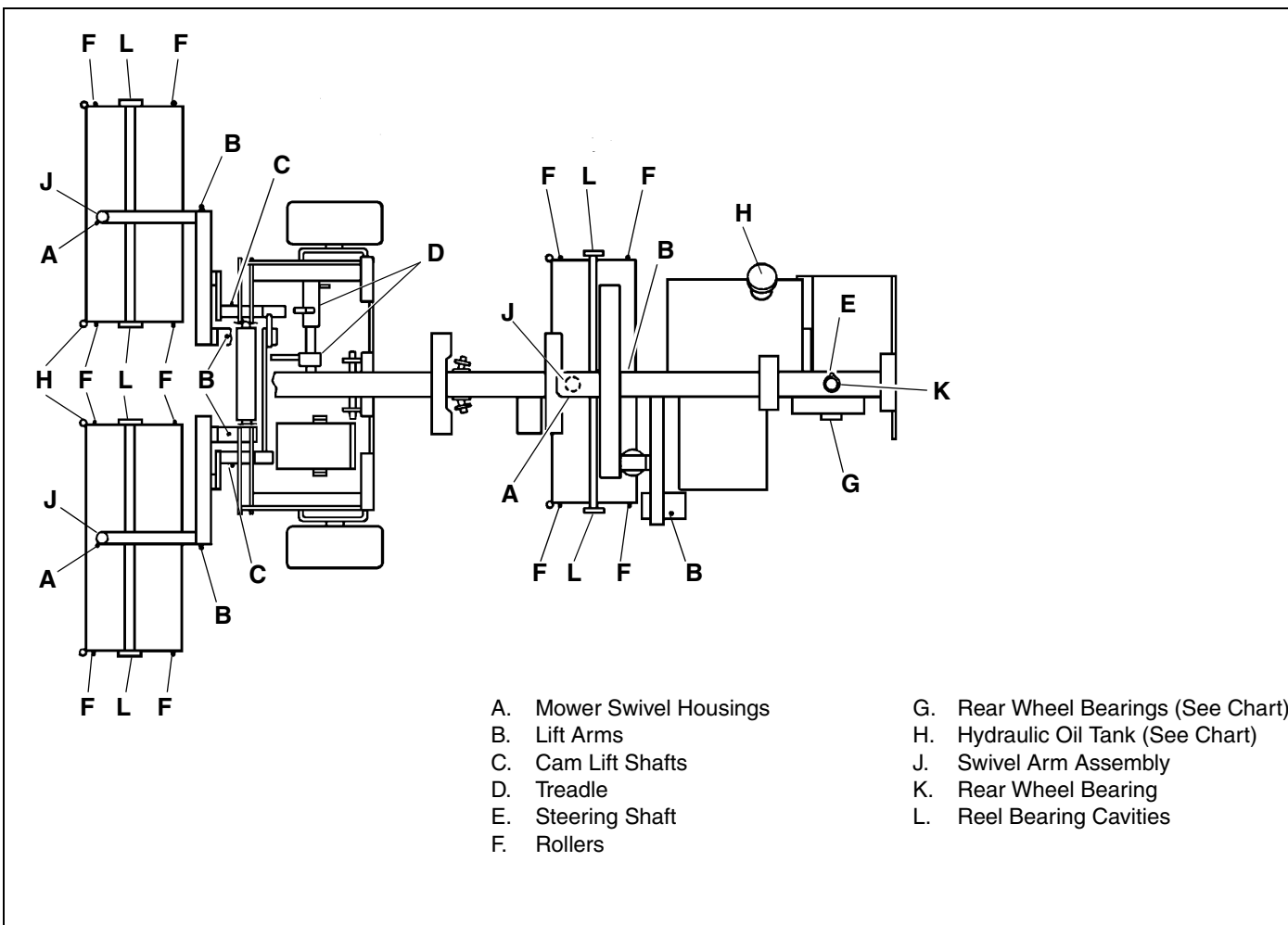
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.

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

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

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

6.2 LUBRICATION CHART



MAINTENANCE & LUBRICATION CHARTS 6

6.3 MAINTENANCE CHARTS

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Every 400 Hours	Every 500 Hours	Every 1000 Hours	Yearly	See Sec- tion	Lubricant Type
Air Filter	I		AR					R	4.4	
Battery Charge			I						4.7	
Belts	I-A*		I-A			R			3.15	
Brake		I-A*		A					3.7, 3.8	
Cooling System	I-C-A							R	4.19	IV
Electrical System		I*		I					4.13	
Engine Oil	I	R*	R****						4.3	II
Engine Oil Filter		R*	R							
Fuel System		I							4.6	
Fuel Filter						R			4.6	
Grease Fittings - All	L	L	L			L			6.2	I
Hydraulic Hoses and Tubes	I***			I					4.10	
Hydraulic Oil	I-A			R**				R**	4.11	III
Hydraulic Oil Filter	I	R*		R					4.12	
Muffler and Exhaust	I			I					4.14	
Radiator Screens	I-C/AR								4.19	
Tires		I-A							4.15	

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

* Indicates initial service for new machines.

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

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

*** 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:

Use only engine oil 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

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

7 NOTES

8.1 HOW TO USE THE PARTS CATALOG

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> <i>Includes Items 3 and 4</i> <i>Serviced part included with Item 2</i> <i>Non serviced part included with Item 2</i>
2	789012	1	Valve, Lift	
3	345678	1	• Handle	
4	N/S	1	• Seal Kit	
5	901234	1	Screw, 1/4-20 x 2" Hex Head	

8.2 TO ORDER PARTS

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

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GREENS KING IV DIESEL

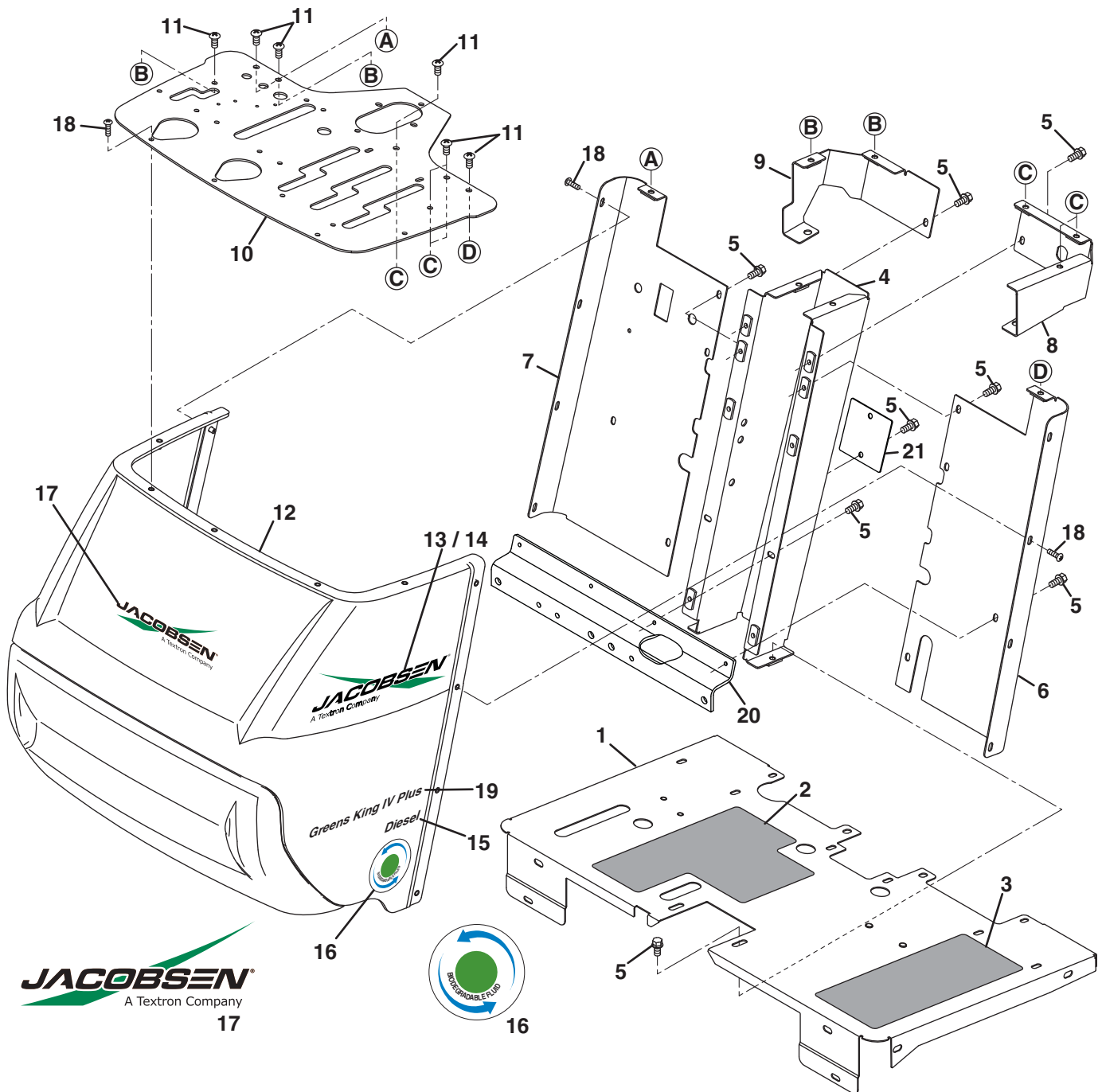
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4179664	1	Decal, Jacobsen	
2	2810349	1	Decal, Left Side	
3	4141266	1	Decal, Oil Light	
4	2810350	1	Decal, Right Side	
5	3002057	1	Decal, Ignition Switch	
6	4181865	1	Decal, Warning	
7	3002053	1	Decal, Backlap Lockout Switch	
8	3002248	1	Decal, Brake	Located near brake pedal
9	2812066	1	Decal, Switch Wiring Instructions	
10	3009744	1	Decal, Throttle Panel	
11	2811912	1	Decal, Hydraulic Fluid	
12	4181864	1	Decal, Battery Warning	
13	3002309	1	Decal, Diesel Fuel	
14	4205183	1	Decal, Towing Warning	
15	N/S	1	Serial Plate	
16	4194323	1	Decal, Patent	
17	4117468	1	Decal, Noise	
18	4181863	3	Decal, Read Manual for Service	
19	4111408	1	Decal, Bio-Fluid	
20	4124704	2	Decal, Greens King IV Plus	
21	4124706	2	Decal, Diesel	
22	4257771	1	Decal, Left Side Jacobsen	
23	4257772	1	Decal, Right Side Jacobsen	
24	354085	3	Decal, Tire Inflation Pressure	
25	4199140	1	Decal, Heat	Located on side of radiator
26	363995	1	Decal, Anti-Freeze	
27	4181862	1	Decal, Radiator Warning	
28	4181861	1	Decal, Start Assist Fluids	

> Change from previous revision

GREENS KING IV DIESEL

Serial No. 62304 - 2018 and Up

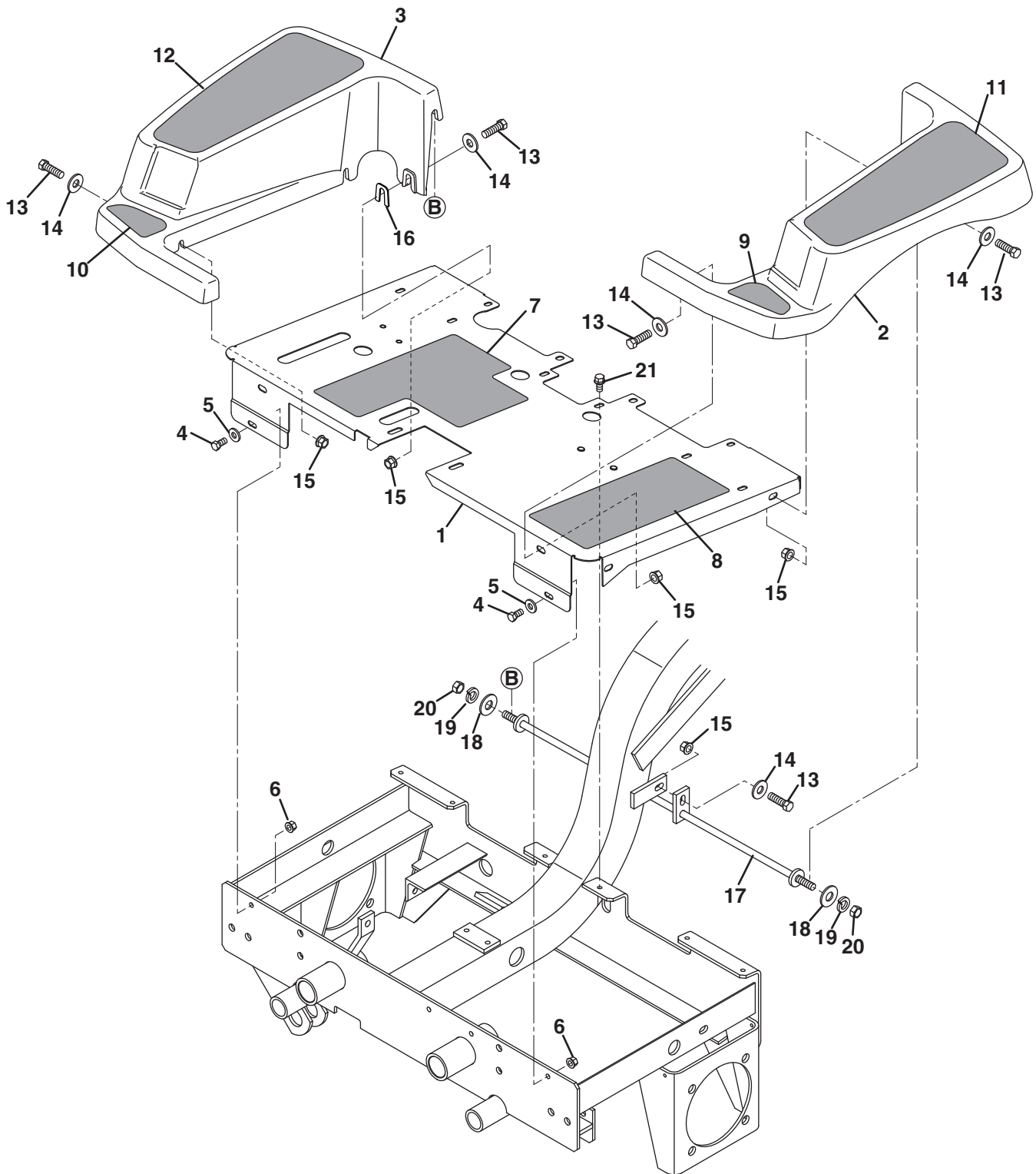
2.1 Front Cowling



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810572	1	Floorboard	
● 2	N/S	1	Pad, Right Floorboard	
● 3	N/S	1	Pad, Left Floorboard	
4	2811918	1	Cover, Steering Tower	
5	403753	12	Screw, 1/4-20 x 1/2" Hex Flange	
6	2811542	1	Panel, Left Side	
7	2811543	1	Panel, Right Side	
8	2811425	1	Bracket, Left Instrument Panel	
9	2811426	1	Bracket, Right Instrument Panel	
10	2811913	1	Instrument Panel	
11	404014	9	Screw, 1/4-20 x 5/8" Truss Head	
12	2811411	1	Front Cowling	
13	4257771	1	Decal, Left Side Jacobsen	
14	4257772	1	Decal, Right Side Jacobsen	
15	4124706	2	Decal, Diesel	
16	4111408	1	Decal, Bio Fluid	
17	4179664	1	Decal, Jacobsen	
18	403912	14	Screw, #10-24 x 5/8" Truss Head	
19	4124704	1	Decal, Greens King IV Plus	
20	2810437	1	Bracket, Support	
21	365205	1	Door, Access	
●	Included in Pad Replacement Kit 2811534, See 3.1			

> Change from previous revision



GREENS KING IV DIESEL

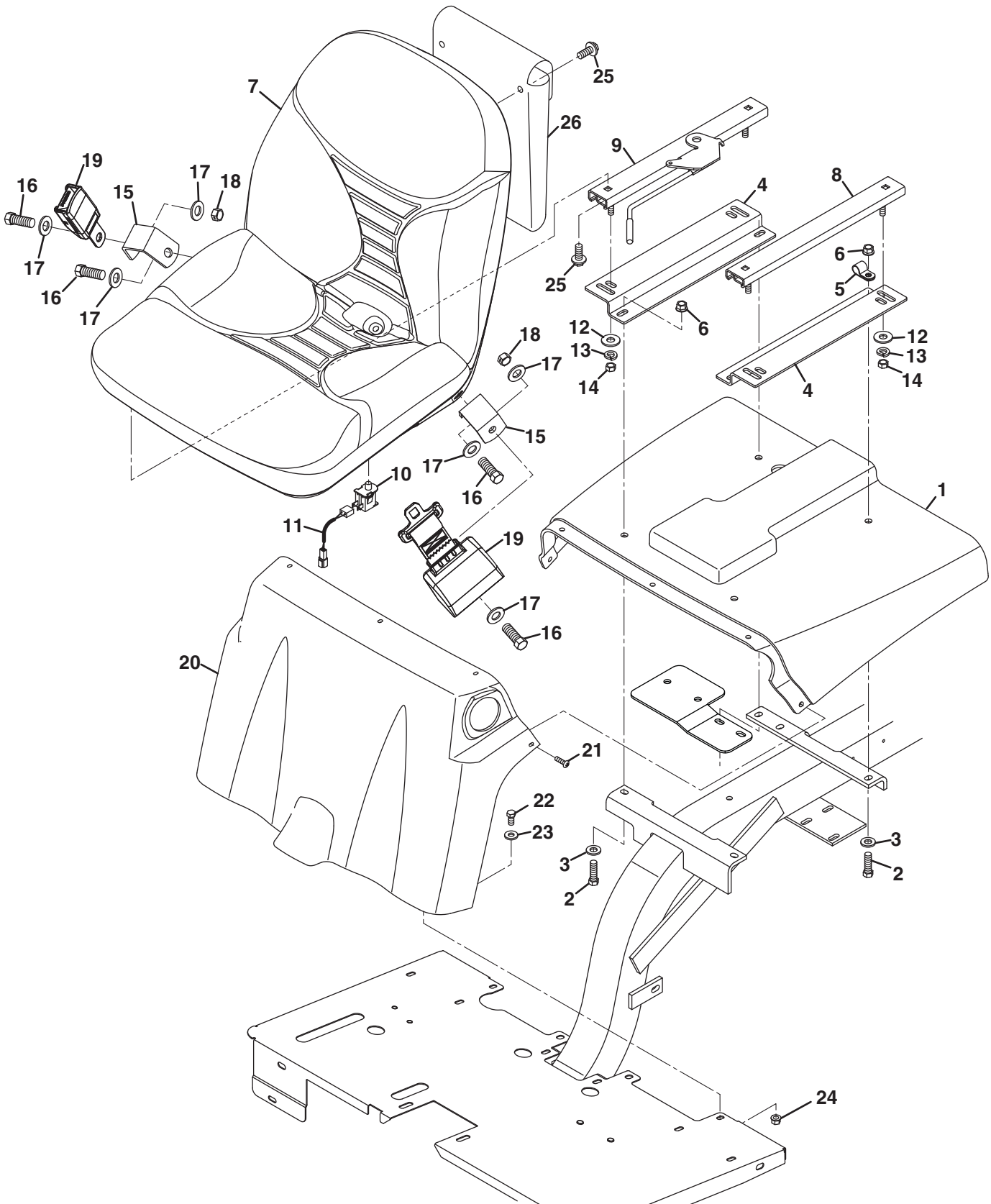
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810572	1	Floorboard	
2	2810705	1	Fender, Left Side	
3	2810706	1	Fender, Right Side	
4	400104	2	Screw, 1/4-20 x 1/2" Hex Head	
5	453023	2	Flat Washer, 1/4	
6	445794	2	Nut, 1/4-20 Spiralock Flange	
	2811534	1	Pad Replacement Kit	
7	N/S	1	• Pad, Right Floorboard	
8	N/S	1	• Pad, Left Floorboard	
9	N/S	1	• Pad, Front Left Fender	
10	N/S	1	• Pad, Front Right Fender	
11	N/S	1	• Pad, Left Fender	
12	N/S	1	• Pad, Right Fender	
13	400188	9	Screw, 5/16-18 x 1" Hex Head	
14	452006	10	Flat Washer, 5/16	
15	445781	9	Nut, 5/16-18 Whizlock Flange	
16	2811607	AR	Shim, Fender Mounting	
17	2811524	1	Bar, Fender Support	
18	452008	2	Flat Washer, 3/8	
19	446142	2	Lockwasher, 3/8 Heavy	
20	443110	2	Nut, 3/8-16 Hex	
21	403753	6	Screw, 1/4-20 x 1/2" Hex Flange	

> Change from previous revision

GREENS KING IV DIESEL

Serial No. 62304 - 2018 and Up

4.1 Seat

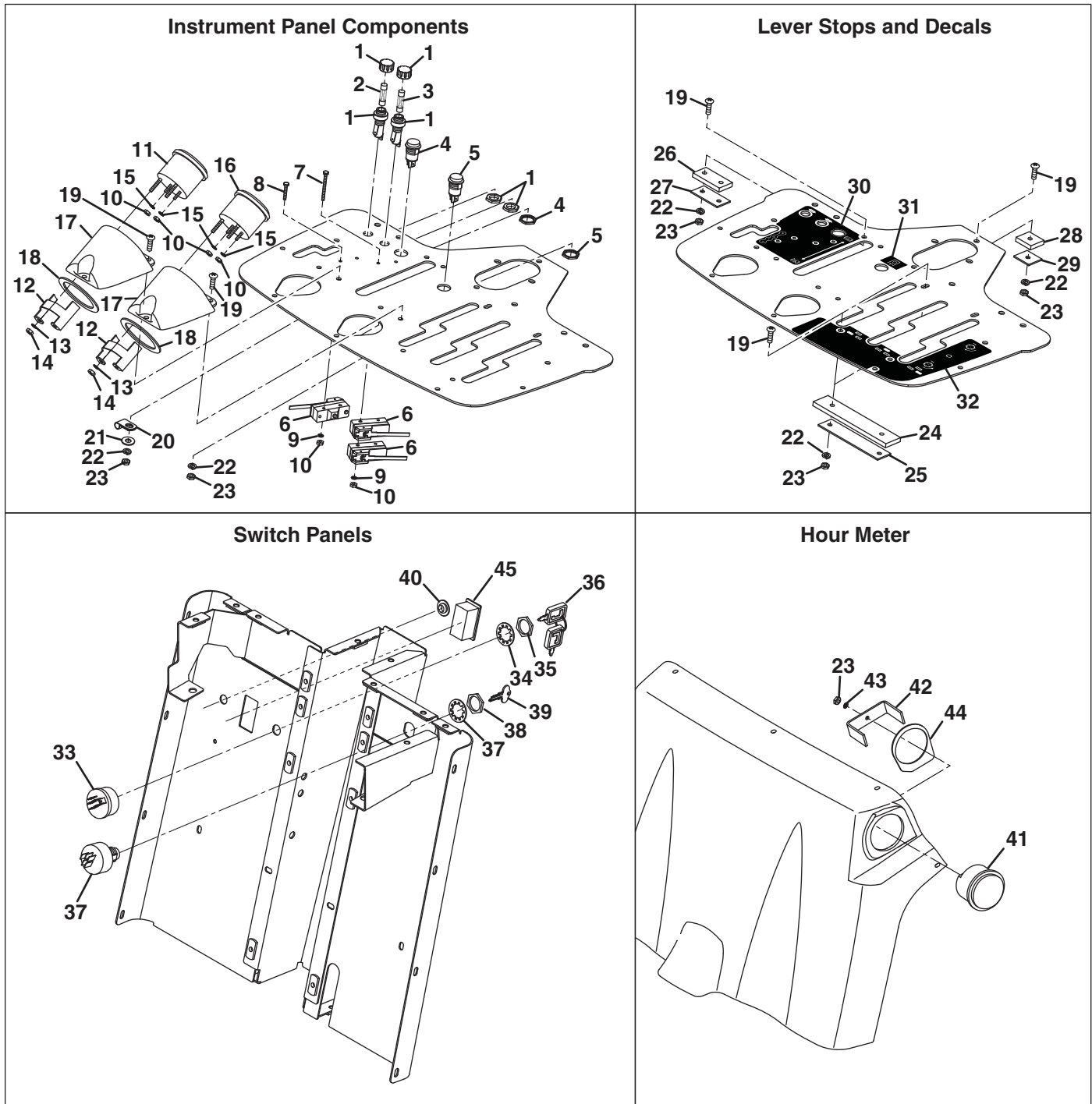


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2809868	1	Skirt, Top	
2	400188	4	Screw, 5/16-18 x 1" Hex Head	
3	453009	4	Flat Washer, 5/16	
4	338277	2	Bracket, Set Mounting	
5	345666	1	Clamp, Seat Harness	
6	445781	4	Nut, 5/16-18 Whizlock Flange	
7	4139430	1	Seat	
8	523357	1	• Seat Adjuster	
9	523356	1	• Seat Adjuster with Handle	
10	4136902	1	• Switch, Seat	
11	5003769	1	Harness, Seat Switch	
12	452006	4	Flat Washer, 5/16	
13	446136	4	Lockwasher, 5/16 Heavy	
14	443106	4	Nut, 5/16-18 Hex	
15	4206460	2	Bracket, Seat Belt	
16	400371	4	Screw, 7/16-20 x 1" Hex Head	
17	453013	6	Flat Washer, 7/16	
18	444731	2	Locknut, 7/16-20 Hex Center	
19	4257812	1	Seat Belt Assembly	Includes Both Halves
20	2809869	1	Skirt, Front	
21	403912	5	Screw, #10-24 x 5/8" Truss Head	
22	400104	4	Screw, 1/4-20 x 1/2" Hex Head	
23	453023	4	Flat Washer, 1/4	
24	445794	4	Nut, 1/4-20 Spiralock Flange	
25	3001328	6	Screw, Special	
26	3003928	1	Pouch, Literature	
27	4211680	1	Bracket, Filter	See 12.1

> Change from previous revision

5.1 Instrument Panel

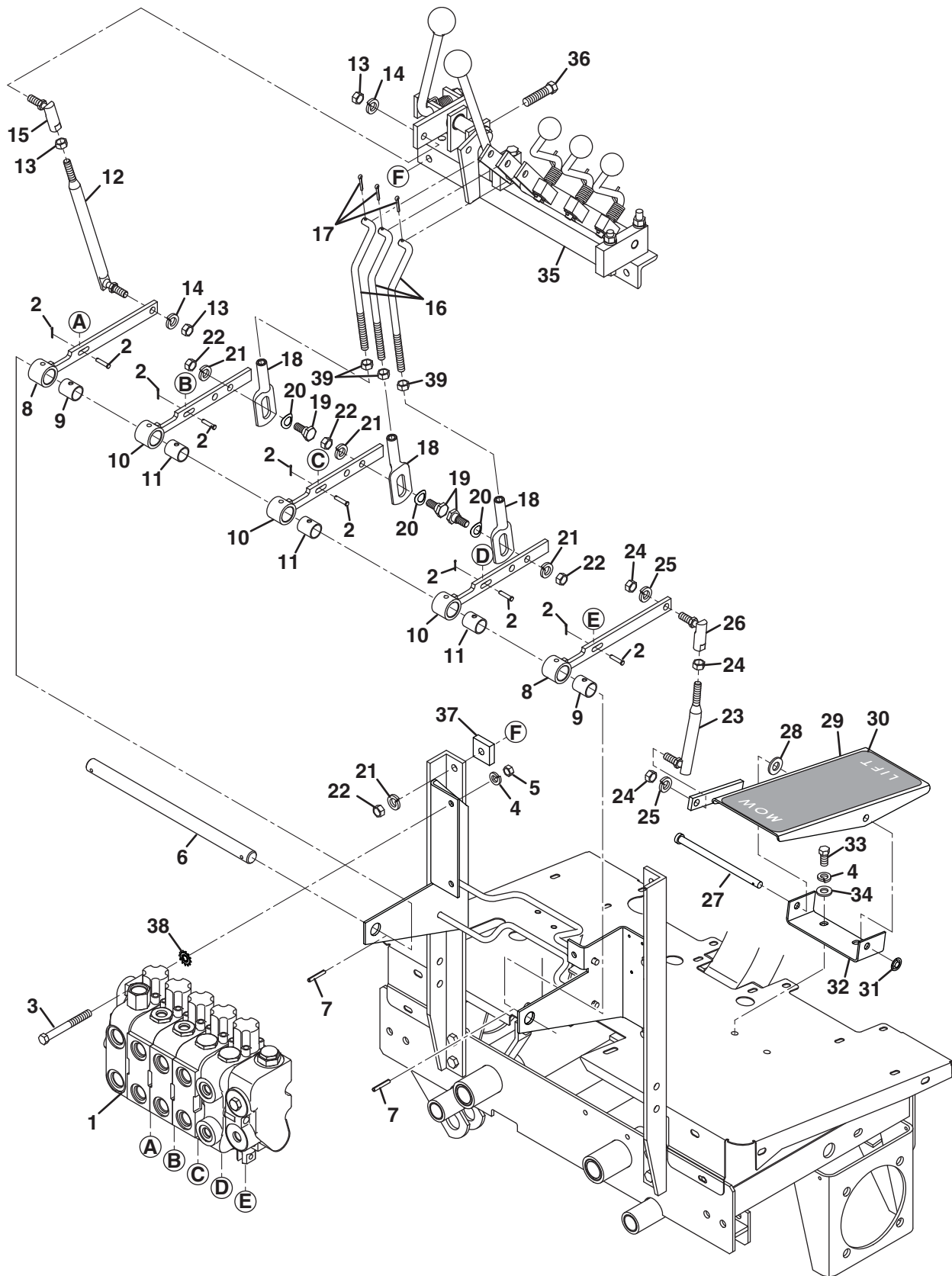


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	361646	2	Fuse Holder	Includes Cap and Panel Nut	
2	361700	1	Fuse, 6 Amp		
3	361701	1	Fuse, 30 Amp	Includes Panel Nut	
4	366751	1	Light, Yellow Parking Brake		
5	164194	1	Light, Red Engine Oil	Includes Panel Nut	
6	3002056	3	Switch, Micro		
7	402020	2	Screw, #6-32 x 1-3/4" Hex Head		
8	402014	2	Screw, #6-32 x 1" Hex Head		
9	447204	4	Lockwasher, #6 Internal Tooth		
10	444304	4	Nut, #6-32 Hex		
11	162721	1	Volt Meter		Includes (2) Item 10
12	N/S	1	• Mounting Bracket		
13	447206	2	• Lockwasher, #8 Internal Tooth		
14	444306	2	• Nut, #8-32 Hex		
15	447002	2	• Lockwasher, #6 External Tooth		
16	162720	1	Temperature Gauge	Includes (2) Item 10 and 11~15	
17	2811441	2	Hood, Gauge		
18	2811845	2	Ring, Gauge Backup		
19	403912	11	Screw, #10-24 x 5/8" Truss Head		
20	3003773	1	Clamp, Wire Harness		
21	452002	1	Flat Washer, #10		
22	446118	11	Lockwasher, #10 Heavy		
23	444310	11	Nut, #10-24 Hex		
24	361116	2	Stop, Reel Control Lever		
25	361115	2	Plate, Stop Reinforcement		
26	361113	1	Stop, Parking Brake Lever		
27	361112	1	Plate, Stop Reinforcement		
28	2812073	1	Stop, Steering Valve		
29	2812074	1	Plate, Stop Reinforcement		
30	2810350	1	Decal, Right Side Instrument Panel		
31	4141266	1	Decal, Oil Warning		
32	2810349	1	Decal, Reel Control Lever		
33	1000348	1	Ignition Switch		
34	447222	1	• Lockwasher, 9/16 Internal Tooth		
35	358968	1	• Nut, 9/16-24 Panel		
36	5000039	1	• Key, Ignition		
37	1001010	1	Mechanic's Backlap Switch		Includes Lockwasher
38	558037	2	• Nut, 13/16-20 Black Nylon Face		
39	5001428	1	• Key, Mechanic Switch		
40	364646	1	Plug, 1/2" Panel Hole	Includes (1) Item 23	
41	162723	1	Hour Meter		
42	N/S	1	• Mounting Bracket		
43	447006	1	• Lockwasher, #10 External Tooth		
44	2812082	1	Ring, Backup		
45	3006509	1	Plug, Panel		

> Change from previous revision

6.1 Lower Control Linkage

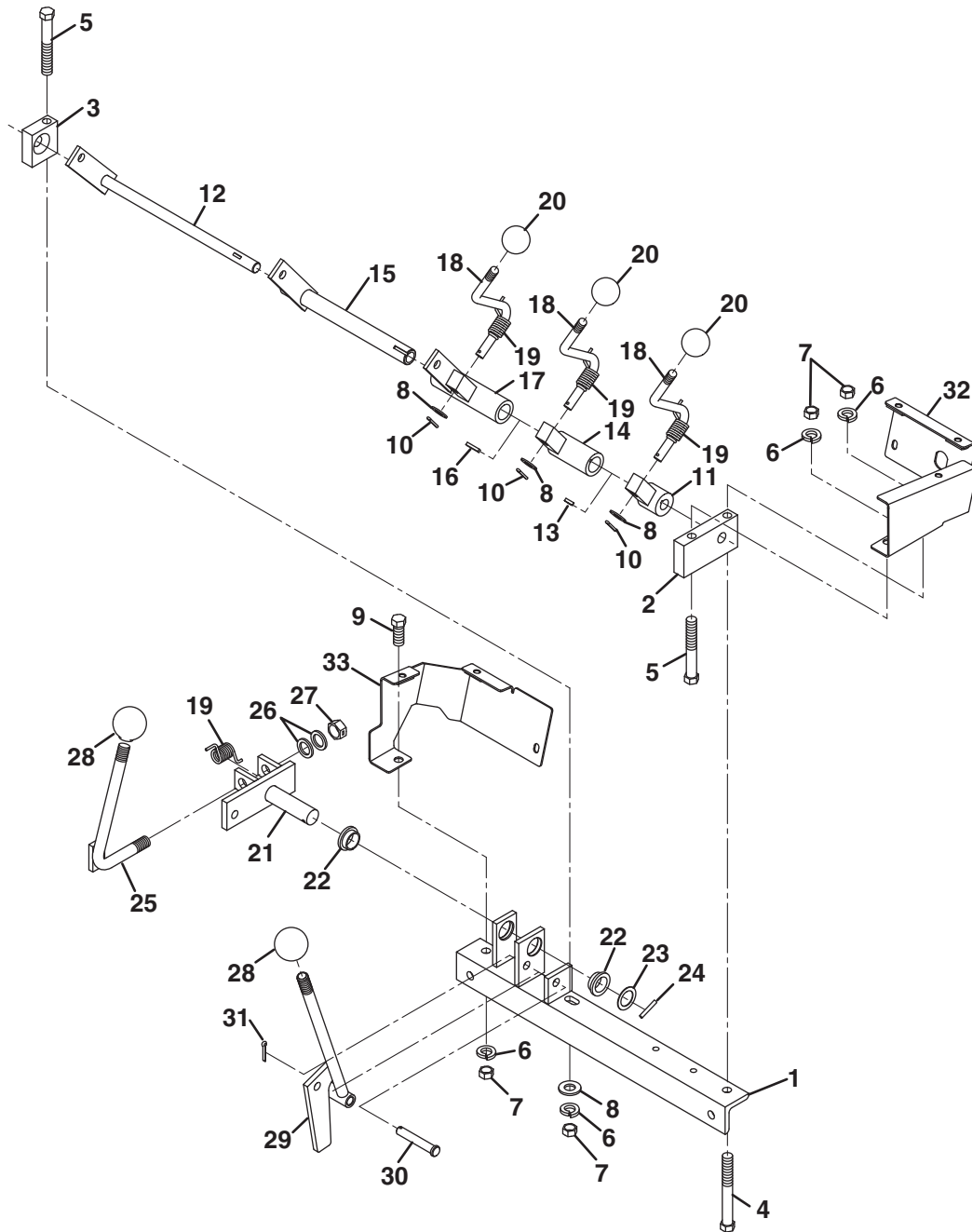


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	116536	1	Valve, 5 Spool Stack	See 34.1	
2	502751	5	• Kit, Clevis and Cotter Pin		
3	400216	3	Screw, 5/16-18 x 2-3/4" Hex Head		
4	446136	5	Lockwasher, 5/16 Heavy		
5	443106	3	Nut, 5/16-18 Hex		
6	363423	1	Shaft		
7	461385	2	Roll Pin, 3/16 x 1-1/4"		
8	131126	2	Lever, Traction/Lift Spool		
9	304392	1	• Bushing		
10	131125	3	Lever, Reel Mower Spool		
11	304392	1	• Bushing		
12	365653	1	Rod, Traction Spool		
13	443812	3	• Nut, 3/8-24 Hex Jam		
14	446142	2	• Lockwasher, 3/8 Heavy		
15	310089	1	• Ball Joint, Type R109		
16	363911	3	Rod, Reel Spool		
17	460026	3	Cotter Pin, 1/8 x 3/4"		
18	3002257	3	Link, Spool Lever		
19	344996	3	Shoulder Bolt, 3/8-16		
20	454025	3	Wave Washer		
21	446142	5	Lockwasher, 3/8 Heavy		
22	443110	5	Nut, 3/8-16 Hex		
23	365654	1	Rod, Lift Spool		
24	443812	3	• Nut, 3/8-24 Hex Jam		
25	446142	2	• Lockwasher, 3/8 Heavy		
26	310089	1	• Ball Joint, Type R109		
27	461486	1	Clevis Pin, 3/8 x 6-1/8"		
28	453011	AR	Flat Washer, 3/8		
29	131777	1	Pedal, Lift/Lower		
30	338204	1	Pad, Foot		
31	445521	1	Nut, 3/8" Shaft Pal		
32	361157	1	Bracket, Pedal		
33	400182	2	Screw, 5/16-18 x 5/8" Hex Head		
34	453009	2	Flat Washer, 3/8		
35	N/S	1	Upper Control Linkage Assembly		See 7.1
36	400266	2	Screw, 3/8-16 x 1-1/2" Hex Head		
37	353960	2	Spacer		
38	447512	3	Lockwasher, 5/16 Internal/External		
39	443810	3	Nut, 3/8-16 Hex Jam		

> Change from previous revision

7.1 Upper Control Linkage



GREENS KING IV DIESEL

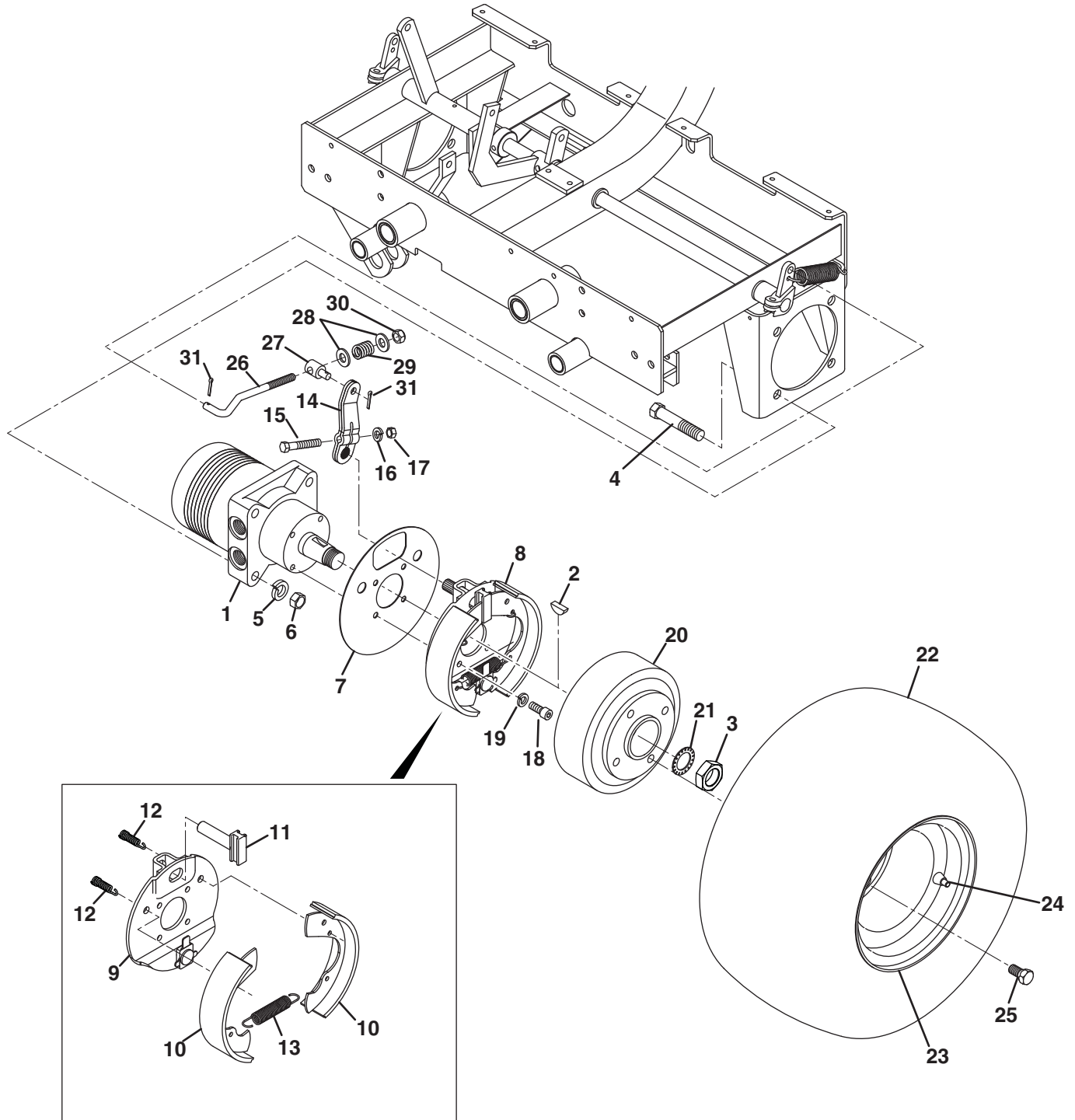
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	131786	1	Bracket, Control Linkage	
2	353994	1	Block, Left Side	
3	354009	1	Block, Right Side	
4	400276	1	Screw, 3/8-16 x 3 in. Hex Head	
5	400274	2	Screw, 3/8-16 x 2-1/2 Hex Head	
6	446142	4	Lockwasher, 3/8 Heavy	
7	443110	4	Nut, 3/8-16 Hex	
8	453011	4	Flat Washer, 3/8	
9	400260	1	Screw, 3/8-16 x 7/8" Hex Head	
10	460014	3	Cotter Pin, 3/32 x 3/4"	
11	1001114	1	Arm, Right Reel Mower Control	
12	1004911	1	Shaft, Right Reel Mower Control	
13	463003	1	Key, 1/8 x 1/2" Woodruff	
14	1001113	1	Arm, Center Reel Mower Control	
15	131793	1	Tube, Center Reel Motor Control	
16	331143	1	Key, 1/8" Square x 3/4"	
17	1001112	1	Tube, Left Reel Mower Control	
18	390891	3	Lever, Reel Control	
19	336830	4	Spring, Torsion	
20	326731	3	Knob, Reel Control	
21	131762	1	Traction Pin and Arm	
22	352726	2	Bushing	
23	311812	AR	Washer, Shim	
24	461173	1	Drive Pin, 5/32 x 1"	
25	162572	1	Traction Lever	
26	455012	AR	Washer	
27	444784	1	Locknut, 1/2-13 Hex Center	
28	315267	2	Knob	
29	1002808	1	Lever, Parking Brake	
30	325390	1	Clevis Pin, 3/8 x 2-1/4"	
31	460026	1	Cotter Pin, 1/8 x 3/4"	
32	2811425	1	Bracket, Left Instrument Panel	See 2.1
33	2811426	1	Bracket, Right Instrument Panel	See 2.1

> Change from previous revision

GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811529	1	Shaft, Brake	
2	352726	2	Bushing, Brake Pedal Shaft	
3	2810683	2	Bushing, Shaft	
4	2811528	2	Spacer, Brake	
5	2809910	2	Brake Arm	
6	434003	2	Screw, 5/16-18 x 1" Socket Head	
7	446136	2	Lockwasher, 5/16 Heavy	
8	443106	2	Nut, 5/16-18 Hex	
9	353767	2	Spring, Brake Pedal Return	
10	2500081	1	Arm, Traction Pedal	
11	310288	2	• Bearing	
12	367579	1	Collar, Locking	
13	412014	2	Set Screw, 5/16-18 x 1/2" Square Hd	
14	131637	1	Brake Pedal Arm	
15	463017	1	Key, 3/16 x 3/4" Woodruff	
16	344996	2	Shoulder Bolt, 3/8-16	
17	361114	1	Roller, Traction Pedal Arm	
18	444762	2	Locknut, 3/8-16 Hex Center	
19	363378	1	Bracket, Accellerator Pedal	
20	403753	2	Screw, 1/4-20 x 1/2" Hex Flange	
21	400280	1	Screw, 3/8-16 x 4" Hex Head	
22	363377	1	Pedal, Accellerator	
23	363705	1	Pad, Accelerator Pedal	
24	160006	1	Pedal, Brake	
25	400188	1	Screw, 5/16-18 x 1" Hex Head	
26	444716	1	Locknut, 5/16-18 Hex Center	
27	353962	1	Pad, Rubber Brake Pedal	
28	319161	1	Yoke	
29	461485	1	Clevis Pin, 3/8 x 1-1/8"	
30	460014	1	Cotter Pin, 3/32 x 3/4"	
31	446142	2	Lockwasher, 3/8 Heavy	
32	443812	1	Nut, 3/8-24 Hex Jam	
33	363888	1	Rod, Brake Pedal	
34	361095	1	Clevis Pin, 3/8 x 3/4"	
35	453011	2	Flat Washer, 3/8	
36	460026	3	Cotter Pin, 1/8 x 3/4"	
37	361088	1	Bracket, Brake Pivot	
38	353973	1	Guide, Brake	
39	454025	1	Wave Washer, 1/2	
40	443110	1	Nut, 3/8-16 Hex	
41	338276	1	Rod, Parking Brake	
42	1002808	1	Lever, Parking Brake	See 7.1
43	445780	1	Locknut, 3/8-24 Hex Center	
44	471214	1	Grease Fitting, 1/4-28 Straight	

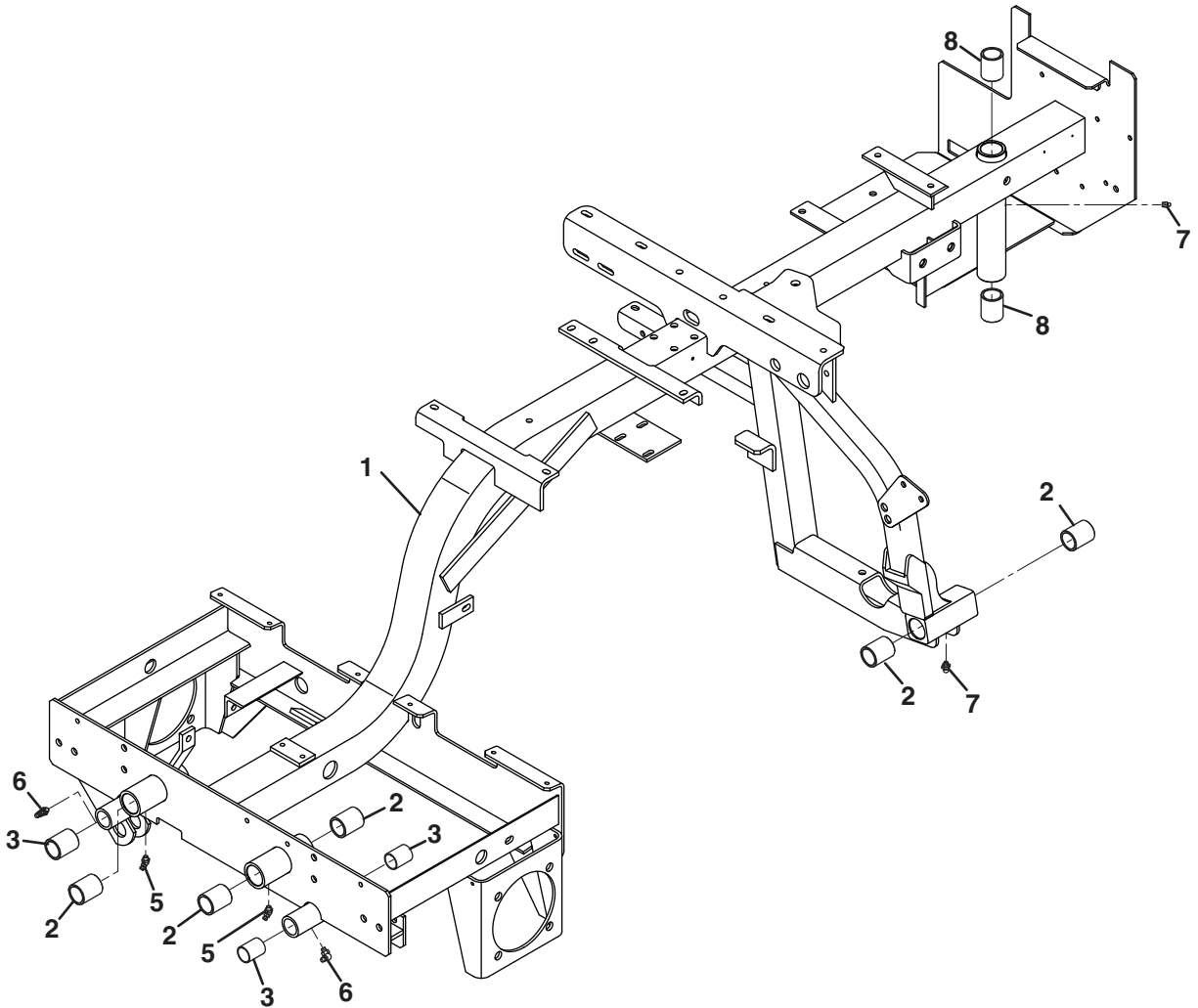
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GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	122675	2	Wheel Motor	See 35.1
2	463027	1	• Key	
3	800778	2	• Nut, 1-20 Hex	
4	400416	8	Screw, 1/2-13 x 2-1/2" Hex Head	
5	446154	8	Lockwasher, 1/2 Heavy	
6	443118	8	Nut, 1/2-13 Hex	
7	390742	2	Dust Shield	
8	501307	2	Brake Assembly	
9	130191	1	• Plate, Brake Backing	
10	501150	1	• Brake Shoe Set	
11	546516	1	• Cam, Brake Actuating	
12	353868	2	• Spring, Brake Shoe Retaining	
13	2501081	1	• Spring, Brake Shoe Return	
14	163579	2	• Lever	
15	400232	1	• • Screw, 5/16-24 x 1-3/4" Hex Hd	
16	446136	1	• • Lockwasher, 5/16 Heavy	
17	306320	1	• • Nut, 5/16-24 Hex	
18	434006	8	Screw, 5/16-18 x 3/4" Socket Head	
19	446136	8	Lockwasher, 5/16	
20	207461	2	Brake Drum	
21	447030	2	Lockwasher, 1" External Tooth	
22	4242543	2	Tire, 18 x 9.5 x 8 4 Ply Smooth	
23	4236021	2	Wheel	
24	360111	2	Valve, Inflation	
25	353914	8	Bolt, 1/2-20 x 3/4" Wheel	
26	353943	2	Rod, Brake Arm Link	
27	353973	2	Guide, Brake	
28	453011	2	Flat Washer, 3/8	
29	351956	2	Spring	
30	445780	2	Locknut, 3/8-24 Hex	
31	460026	4	Cotter Pin, 1/8 x 3/4"	

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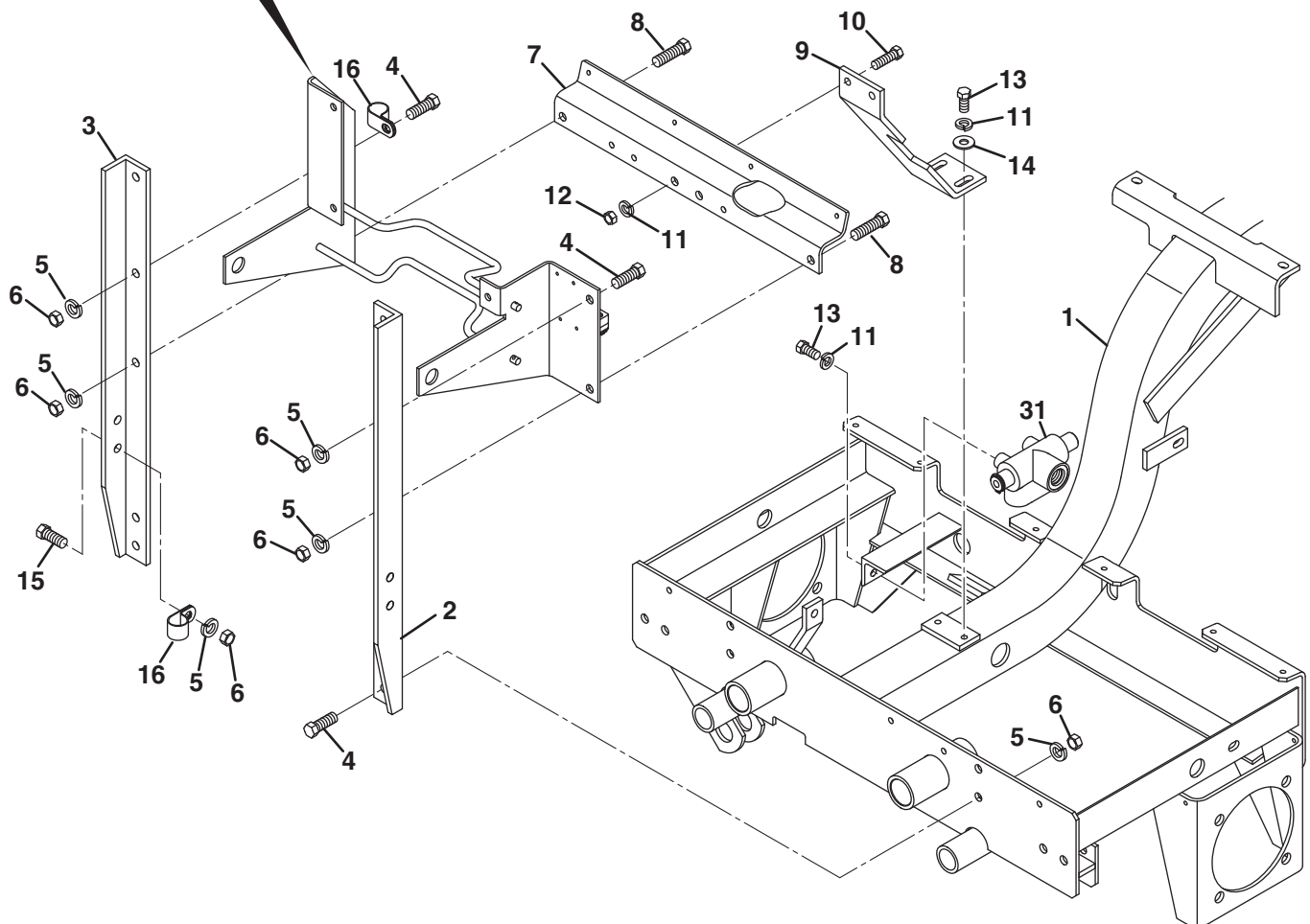
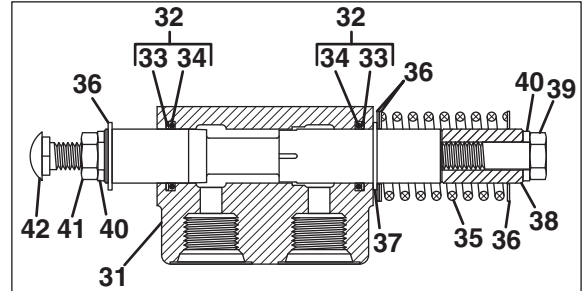
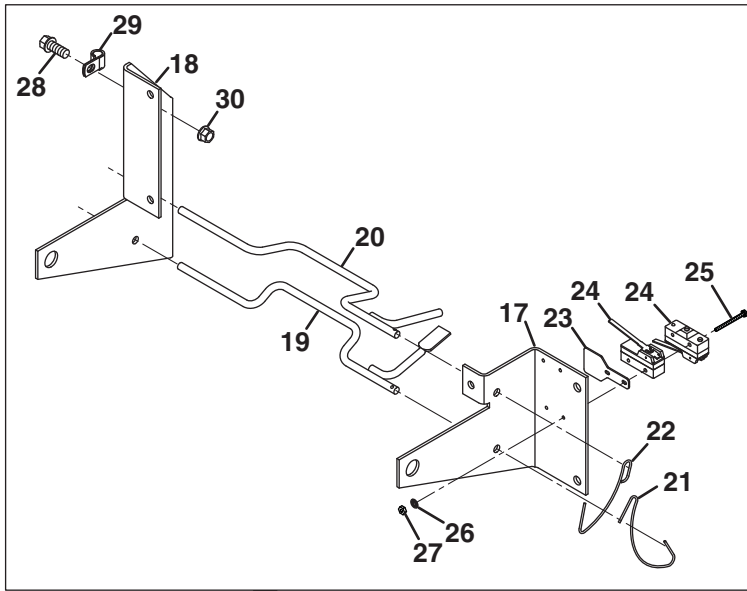
GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Frame, Greens King IV Plus Diesel	Service of Weldment Only
2	3007694	6	• Bushing, 1" Shaft	
3	357999	4	• Bushing, 7/8" Shaft	
4	503441	2	• Wheel Motor Mounting Bracket	
5	471227	2	Grease Fitting, 1/4-28 45°	
6	471221	2	Grease Fitting, 1/4-28 90°	
7	471214	2	Grease Fitting, 1/4-28 Straight	
8	3007694	2	Bushing, 1" Shaft	

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11.1 Front Frame

Serial No. 62304 - 2018 and Up

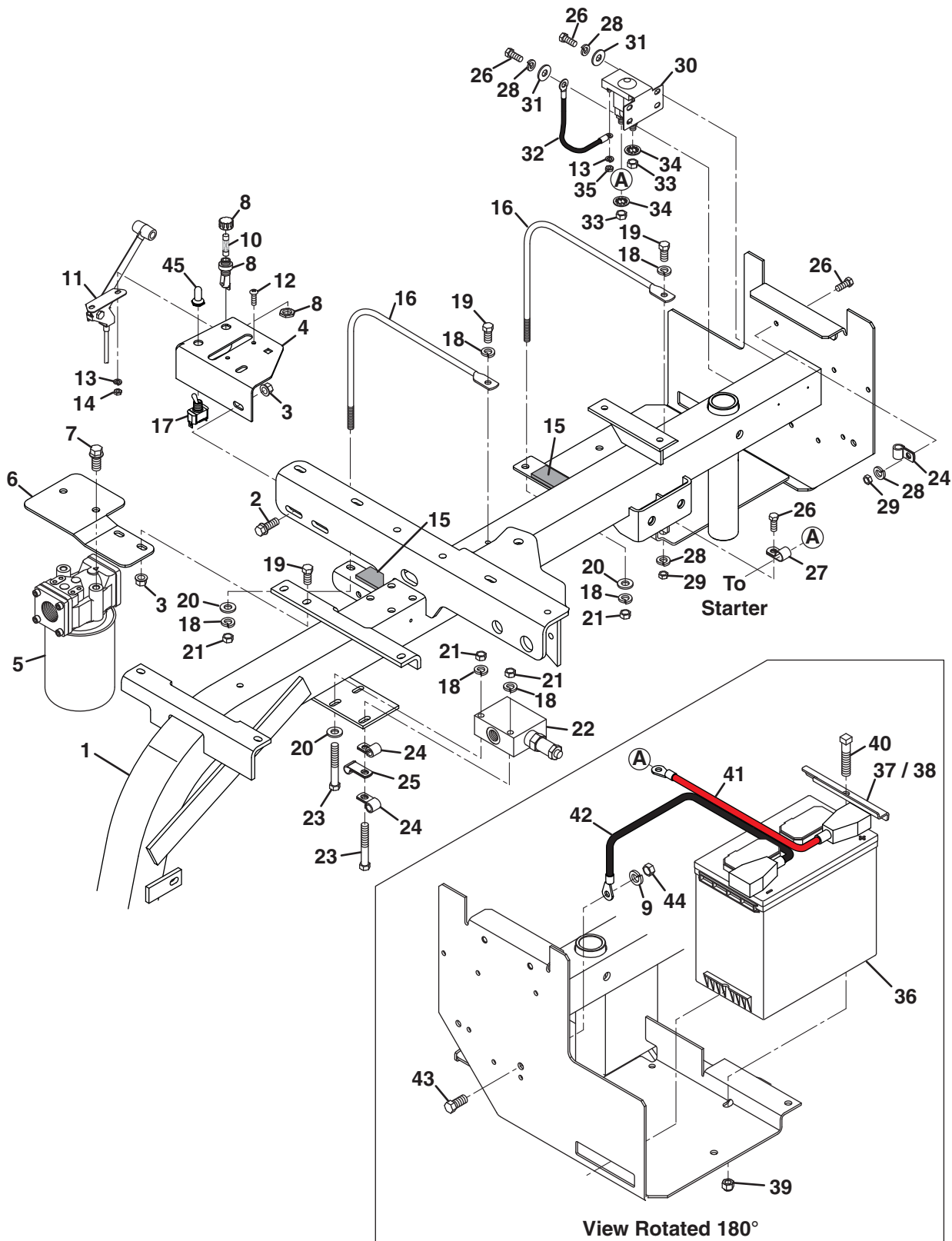


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Frame Assembly	See 10.1 for Service
2	2810689	1	Angle, Left Side Valve Mount	
3	2810690	1	Angle, Right Side Valve Mount	
4	400262	6	Screw, 3/8-16 x 1" Hex Head	
5	446142	9	Lockwasher, 3/8 Heavy	
6	443110	9	Nut, 3/8-16 Hex	
7	2810437	1	Bracket, Support	
8	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
9	365317	1	Gusset, Power Steering	
10	400190	2	Screw, 5/16-18 x 1" Hex Head	
11	446136	6	Lockwasher, 5/16 Heavy	
12	443106	2	Nut, 5/16-18 Hex	
13	400182	4	Screw, 5/16-18 x 5/8" Hex Head	
14	452004	2	Flat Washer	
15	400260	2	Screw, 3/8-16 x 7/8" Hex Head	
16	345671	2	Clamp, Wire Harness	
17	3002265	1	Bracket, Left Side Valve Mounting	
18	3002266	1	Bracket, Right Side Valve Mounting	
19	1001084	1	Actuating Rod, Bottom	
20	1001083	1	Actuating Rod, Top	
21	3002264	1	Spring, Bottom Actuating Rod Torsion	
22	3002259	1	Spring, Top Actuating Rod Torsion	
23	3002258	1	Plate, Switch	
24	3002056	2	Switch	
25	402020	2	Screw, #6-32 x 1-3/4" Hex Head	
26	447204	2	Lockwasher, #6 Internal Tooth	
27	444304	2	Nut, #6-32 Hex	
28	403751	1	Screw, 5/16-18 x 3/4" Hex Flange	
29	354081	1	Clamp, Wire Harness	
30	445781	1	Nut, 5/16-18 Whizlock Flange	
31	503128	1	Valve, Traction Metering	
32	503127	1	• Seal Repair Kit	
33	N/S	2	• • Ring, Backup	
34	N/S	2	• • Seal, O-Ring	
35	363684	1	• Spring	
36	306828	3	• Washer, 0.03 in.	
37	546229	2	• Snap Ring	
38	361139	1	Spacer	
39	400268	1	Screw, 3/8-16 x 1-3/4" Hex Head	
40	446142	2	Lockwasher, 3/8 Heavy	
41	443810	1	Nut, 3/8-16 Hex Jam	
42	440120	1	Carriage Bolt, 3/8-16 x 1-1/4"	

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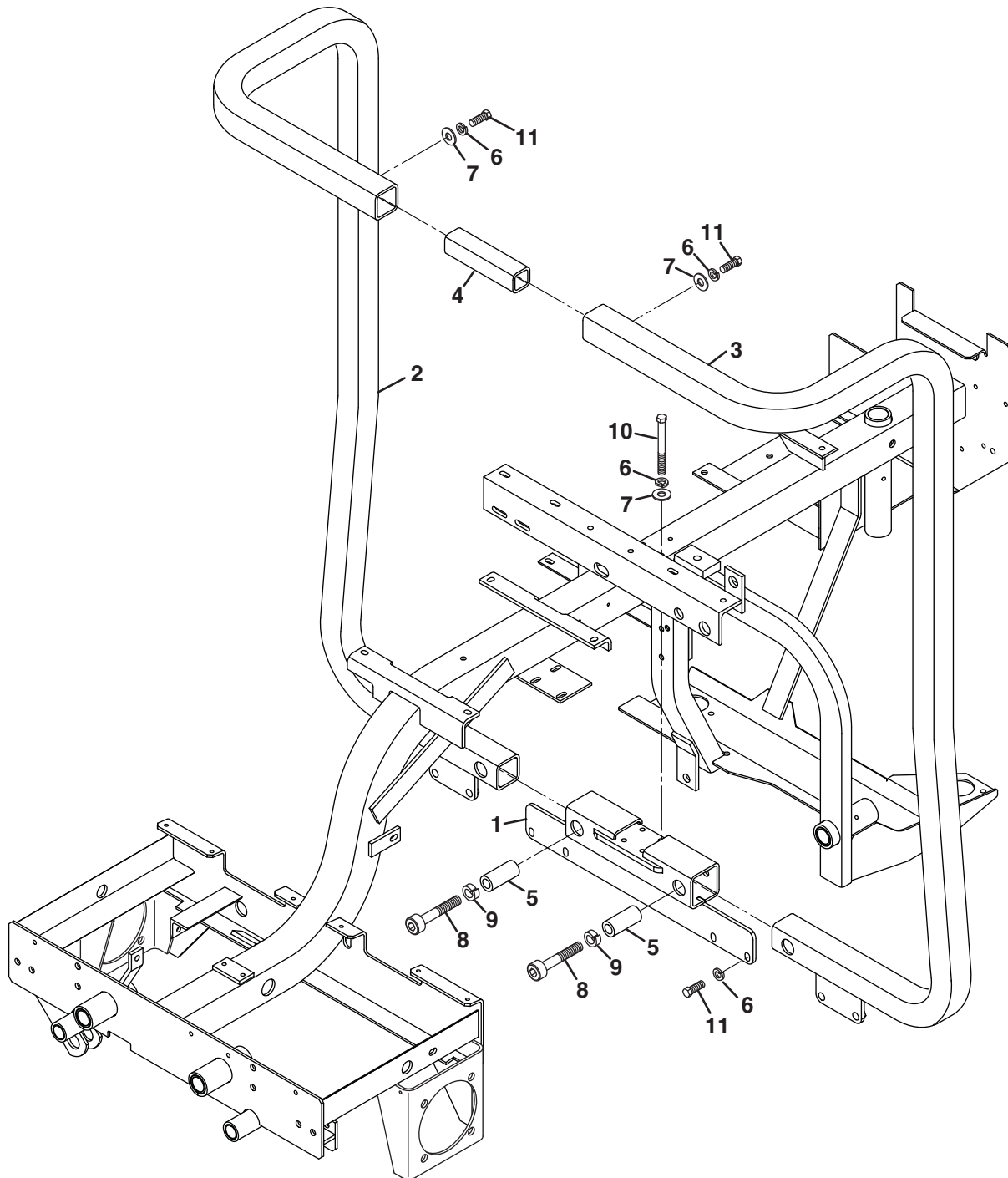
12.1 Rear Frame



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	N/S	1	Frame Assembly	See 10.1 for service parts	
2	403751	1	Screw, 5/16-18 x 3/4" Hex Flange		
3	445781	2	Nut, 5/16-18 Whizlock Flange	See 21.1 for additional service parts	
4	2811950	1	Bracket, Throttle and Glow Plug		
5	132890	1	Hydraulic Oil Filter		
	558022	1	• Cartridge, Element		
6	4211680	1	Bracket, Filter		
7	403756	2	Screw, 3/8-16 x 3/4" Hex Head		
8	361646	1	Fuse Holder		Includes Cap and Panel Nut
9	446142	1	Lockwasher, 3/8 Heavy		
10	361701	1	Fuse, 30 Amp		
11	131805	1	Cable, Throttle		
12	403912	2	Screw, #10-24 x 5/8" Truss Head		
13	446118	4	Lockwasher, #10 Heavy		
14	444310	2	Nut, #10-24 Hex		
15	558012	2	Pad, Oil Tank		
16	363895	2	Strap, Oil Tank		
17	363961	1	Switch, Glow Plug		
18	446136	6	Lockwasher, 5/16 Heavy		
19	400190	2	Screw, 5/16-18 x 5/8" Hex Head		
20	453009	3	Flat Washer, 5/16		
21	443106	4	Nut, 5/16-18 Hex		
22	4135654	1	Load Control Valve		
23	400198	2	Screw, 5/16-18 x 2-1/4" Hex Head		
24	354081	3	Clamp, Tube		
25	366811	1	Clamp, Tube		
26	400106	4	Screw, 1/4-20 x 5/8" Hex Head		
27	345666	1	Clamp, Tube		
28	446130	4	Lockwasher, 1/4 Heavy		
29	443102	2	Nut, 1/4-20 Hex		
30	131905	1	Solenoid, Starter		
31	452004	2	Flat Washer, 1/4		
32	2500032	1	Wire, Starter Solenoid Ground		
33	443808	2	Nut, 5/16-18 Hex Jam		
34	447214	2	Lockwasher, 5/16 Internal Tooth		
35	444312	2	Nut, #10-32 Hex		
36	N/S	1	Battery, 12V	Battery to Starter	
37	4157963	1	Hold Down, Battery		
38	364076	1	Hold Down, Narrow Battery		
39	444810	1	Nut, 3/8-16 Hex Flex-Loc		
40	441814	1	Screw, 3/8-16 x 1-3/4" Square Head		
41	1002968	1	Positive Battery Cable		
42	131808	1	Negative Battery Cable		
43	400258	1	Screw, 3/8-16 x 3/4" Hex Head		
44	443110	1	Nut, 3/8-16 Hex		
45	363962	1	Boot, Toggle Switch		

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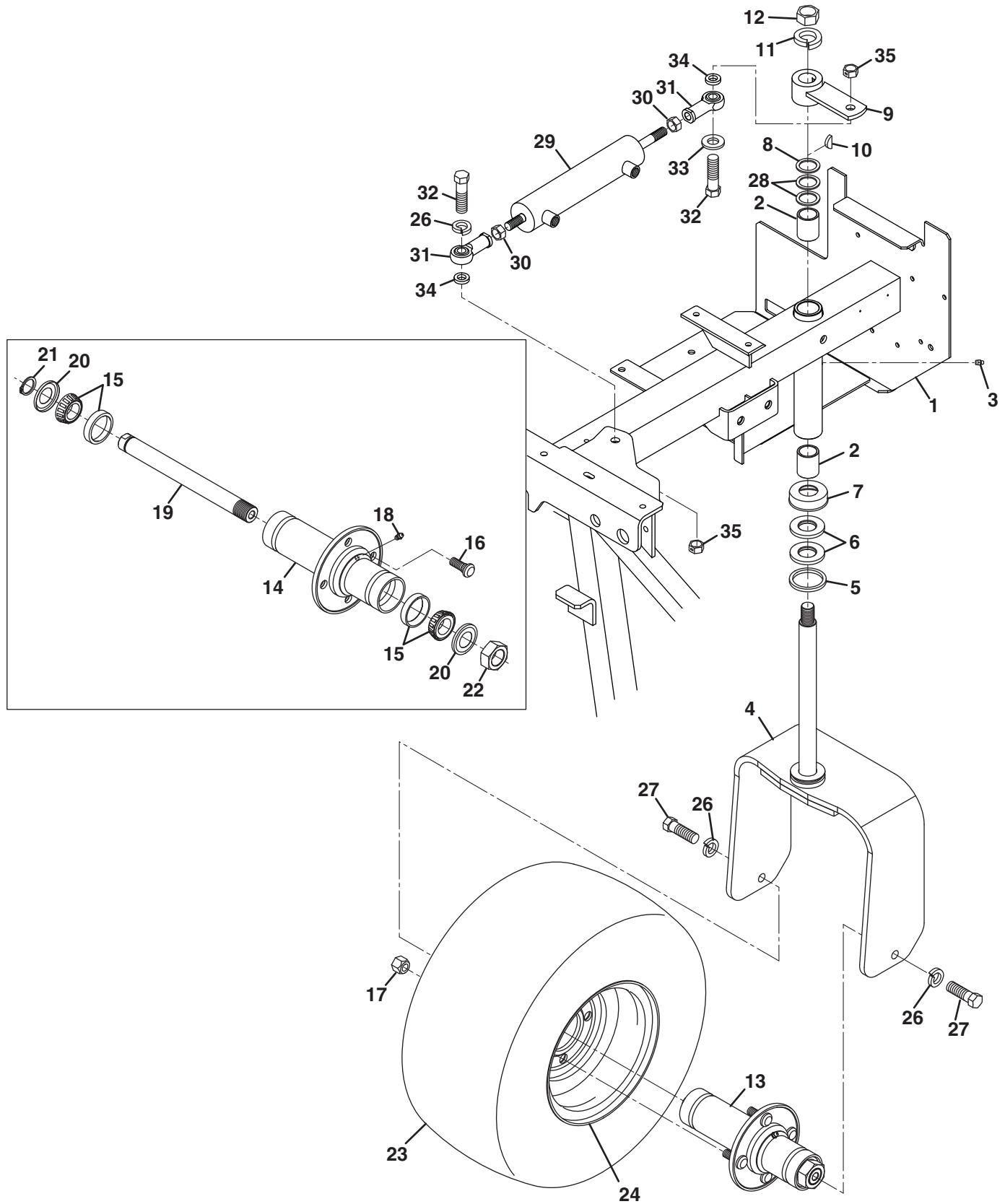


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
	4203340	1	ROPS Assembly	
1	4223360	1	• ROPS Base	
2	4250895	1	• Right Side ROPS Tube	
3	4250894	1	• Left Side ROPS Tube	
4	4223362	1	• Connector Tube	
5	4223361	2	• Spacer	
6	446140	10	Lockwasher, 3/8	
7	452008	6	Flat Washer, 3/8	
8	434039	2	Screw, 1/2-13 x 2-3/4" Hex Socket	
9	446151	2	Lockwasher, 1/2" High Collar	
10	800905	4	Screw, 3/8-16 x 3-1/2" Hex Head	
11	400262	6	Screw, 3/8-16 x 1" Hex Head	

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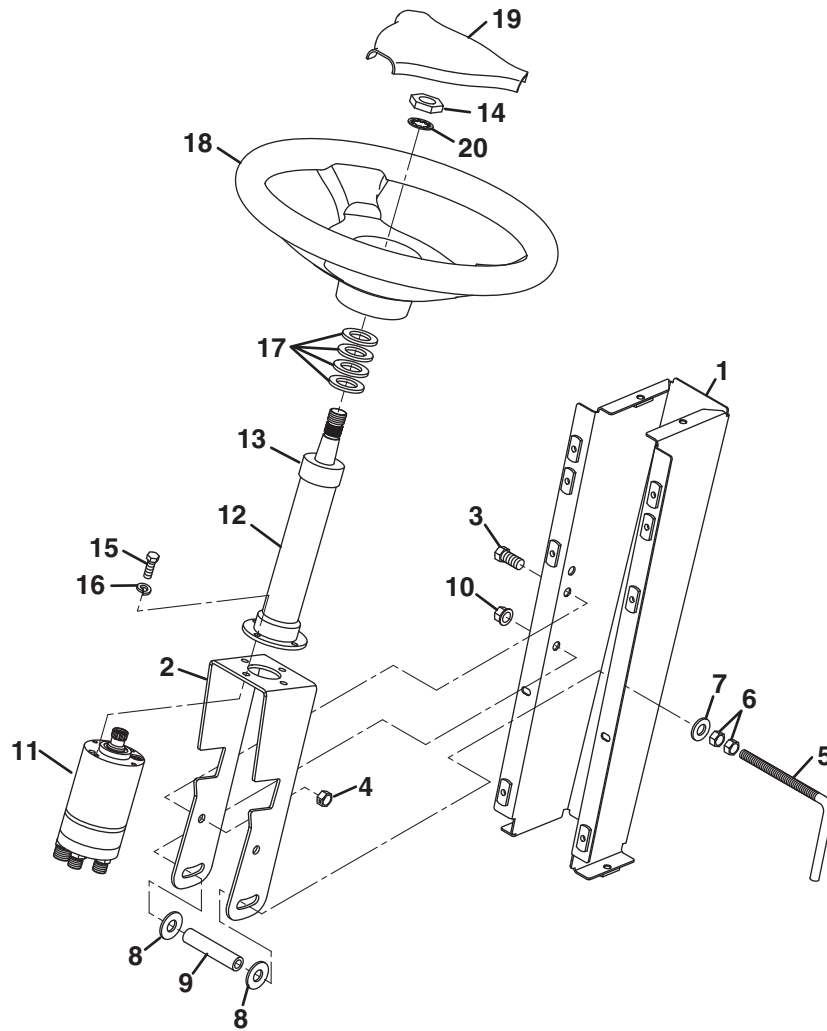
14.1 Steering Axle



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Frame Assembly	
2	3007694	2	Bushing, 1" Shaft	
3	471214	2	Grease Fitting, 1/4-28 Straight	
4	1004577	1	Steering Fork	
5	345621	1	Seal, Steering Shaft	
6	360113	2	Thrust Washer	
7	345401	1	Cup, Thrust Bearing	
8	303629	1	Washer, 1-1/64" x 1-3/8" x 5/64"	
9	163750	1	Crank, Steering Axle	
10	463019	1	Key, 3/16 x 7/8" Woodruff	
11	446178	1	Lockwasher, 3/4 Heavy	
12	443832	1	Nut, 3/4-16 Hex Jam	
13	N/S	1	Steering Axle Assembly	
14	1003668	1	• Axle Tube	
15	500596	2	• • Bearing, Cup and Cone	
16	549730	4	• • Bolt, 1/2-20 x 15/16" Wheel	
17	354807	4	• • Nut, 1/2-20 Lug	
18	471217	1	• • Grease Fitting, 1/4-28 Straight	
19	337358	1	• Axle	
20	360680	2	• Ring, Nilos	
21	458039	1	• Snap Ring, Tru-Arc	
22	445790	1	• Nut, 1-14 Hex Jam	
23	4242543	1	Tire, 18 x 9.5 x 8 4 Ply Smooth	
24	4236021	1	Wheel	
25	360111	1	Valve, Inflation (Not Shown)	
26	446154	3	Lockwasher, 1/2 Heavy	
27	400442	2	Screw, 1/2-20 x 1-1/2" Hex Head	
28	365508	AR	Washer, 3/64" Shim	
29	4271777	1	Steering Cylinder	
	4276851	1	• Seal Kit	
30	443820	2	Nut, 1/2-20 Hex Jam	
31	364234	2	Ball Joint	
32	400444	2	Screw, 1/2-20 x 1-3/4" Hex Head	
33	453017	1	Flat Washer, 1/2	
34	363004	2	Spacer, Cylinder Mounting	
35	444778	2	Lockknut, 1/2-20 Hex Center Jam	

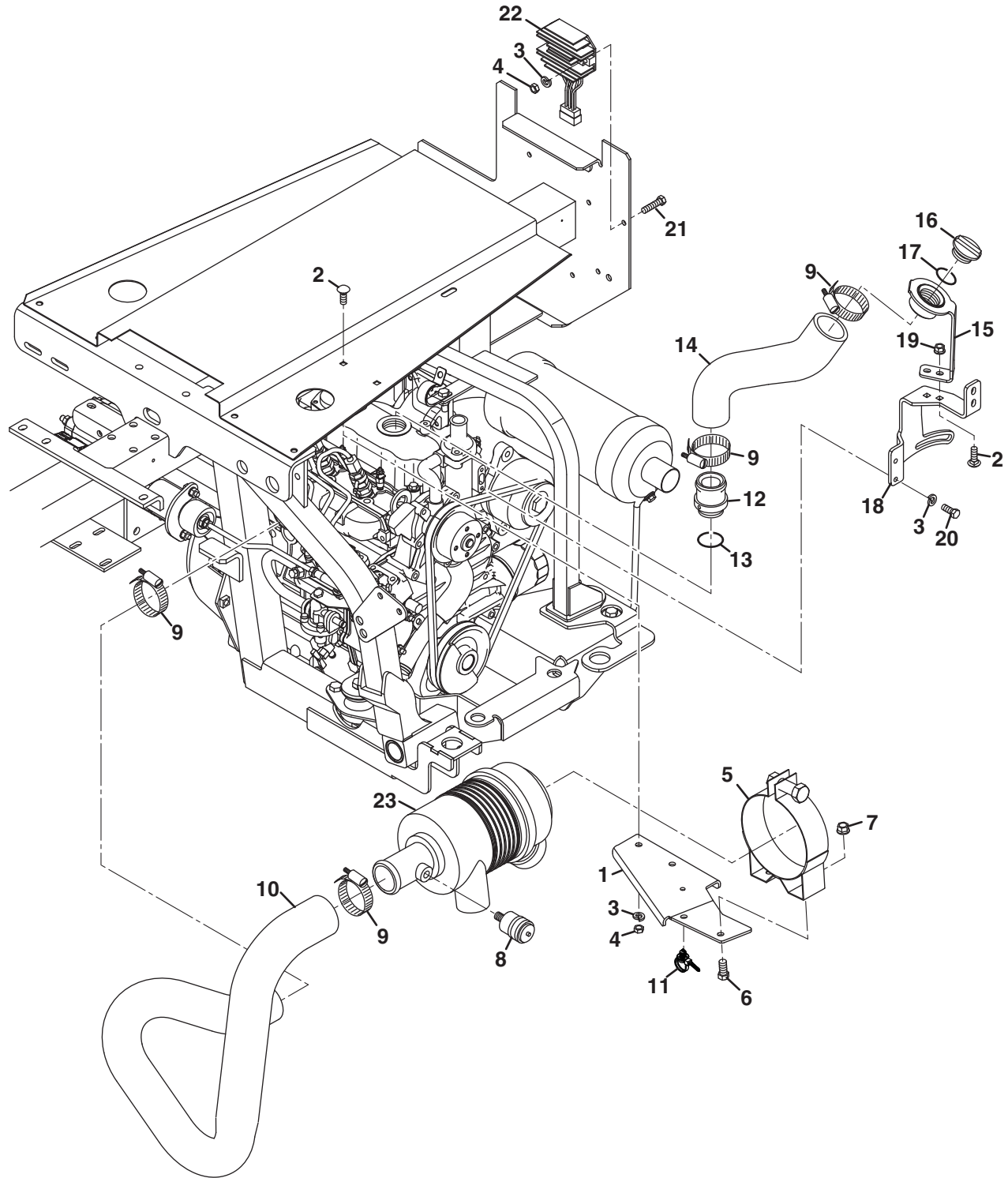
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GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811918	1	Cover, Steering Tower	See 2.1
2	4203680	1	Mount, Steering Valve	
3	400294	2	Screw, 3/8-24 x 3/4" Hex Head	
4	444744	2	Locknut, 3/8-24 Hex Center	
5	365206	1	Lock Pin	
6	443810	2	Nut, 3/8-16 Hex Jam	
7	453011	1	Flat Washer, 3/8	
8	452008	2	Flat Washer, 3/8	
9	365207	1	Spacer	
10	445783	1	Nut, 3/8-16 Whizlock	
11	4196484	1	Valve, Steering	
	4197940	1	• Seal Kit	
12	4210760	1	Steering Column	
13	4201840	1	• Seal, Steering Column	
14	443828	1	Nut, 5/8-16 Hex Jam	
15	450171	4	Screw, M6-1 x 20 mm Hex Head	
16	450410	4	Lockwasher, M6	
17	2811547	4	Washer, Spacer	
18	2811364	1	Steering Wheel	
19	2811365	1	• Cap, Steering Wheel	
20	447224	1	Lockwasher, 5/8 Internal Tooth	

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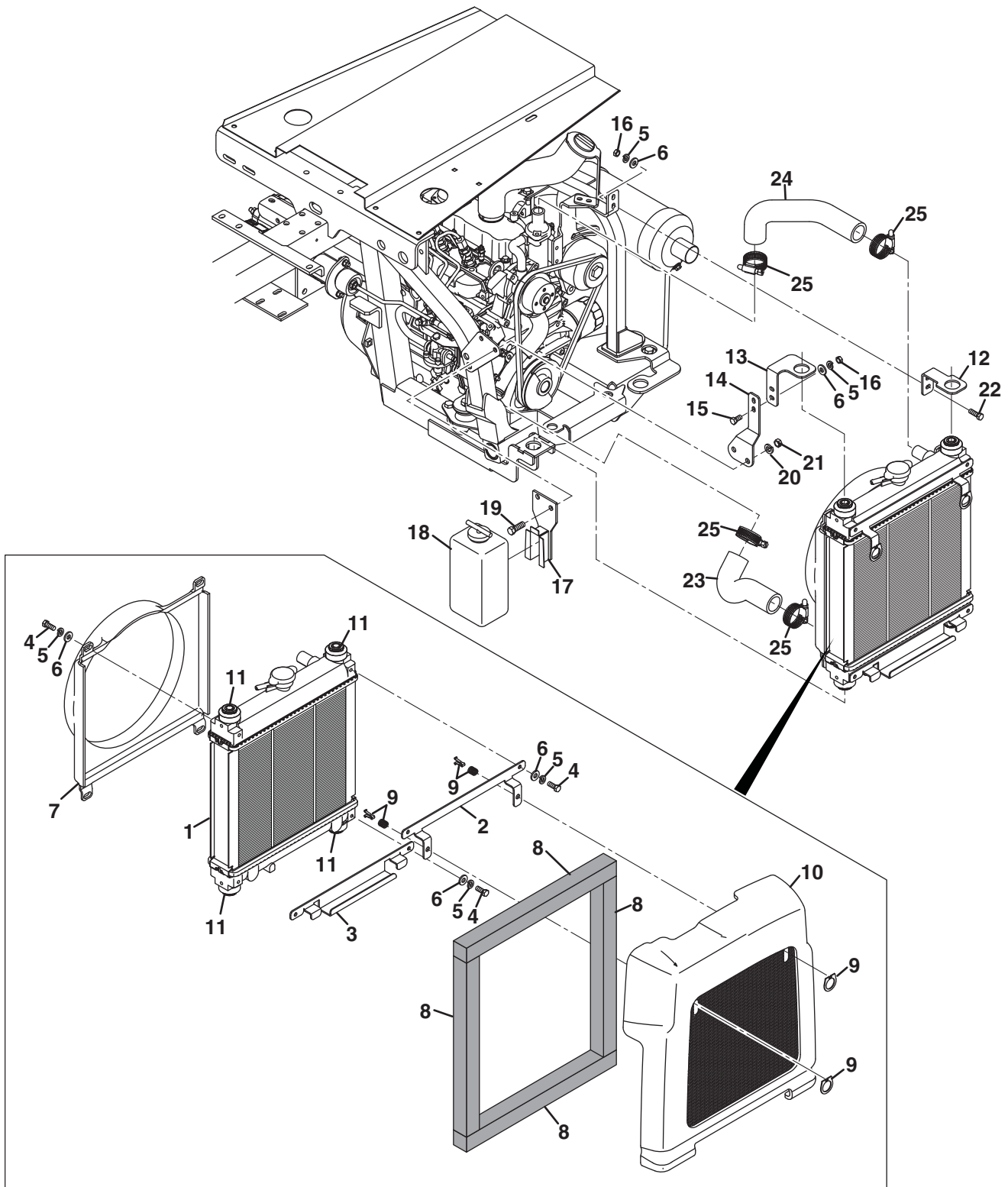


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4213620	1	Bracket, Air Cleaner Mounting	
2	440040	4	Carriage Bolt, 1/4-20 x 5/8"	
3	446130	6	Lockwasher, 1/4 Heavy	
4	443102	4	Nut, 1/4-20 Hex	
5	3002388	1	Bracket, Air Cleaner	
6	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
7	445781	2	Nut, 5/16-18 Whizlock	
8	3002365	1	Indicator, Air Cleaner	
9	326799	4	Clamp, Hose	
10	3009654	1	Hose, Air Cleaner	
11	4167640	1	Cable Tie, Fir Tree	
12	3009473	1	Fitting, Oil Fill	
13	2809955	1	O-Ring	
14	3009436	1	Hose, Oil Fill	
15	1004519	1	Oil Fill Assembly	
16	4145944	1	Plug, Oil Filler	Included with Engine
17	2809955	1	O-Ring	Included with Engine
18	4140398	1	Bracket, Alternator	
19	445794	2	Nut, 1/4-20 Spiralock	
20	362525	2	Screw, M6-1 x 16 mm Hex Head	
21	400112	2	Screw, 1/4-20 x 1" Hex Head	
22	4209367	1	Voltage Regulator	Included with Engine
23	391127	1	Air Cleaner	
	5000913	1	• Element, Air Filter	
	5000912	1	• Cover, Air Cleaner	
	5000914	1	• Valve, Vactuator	

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17.1 Radiator

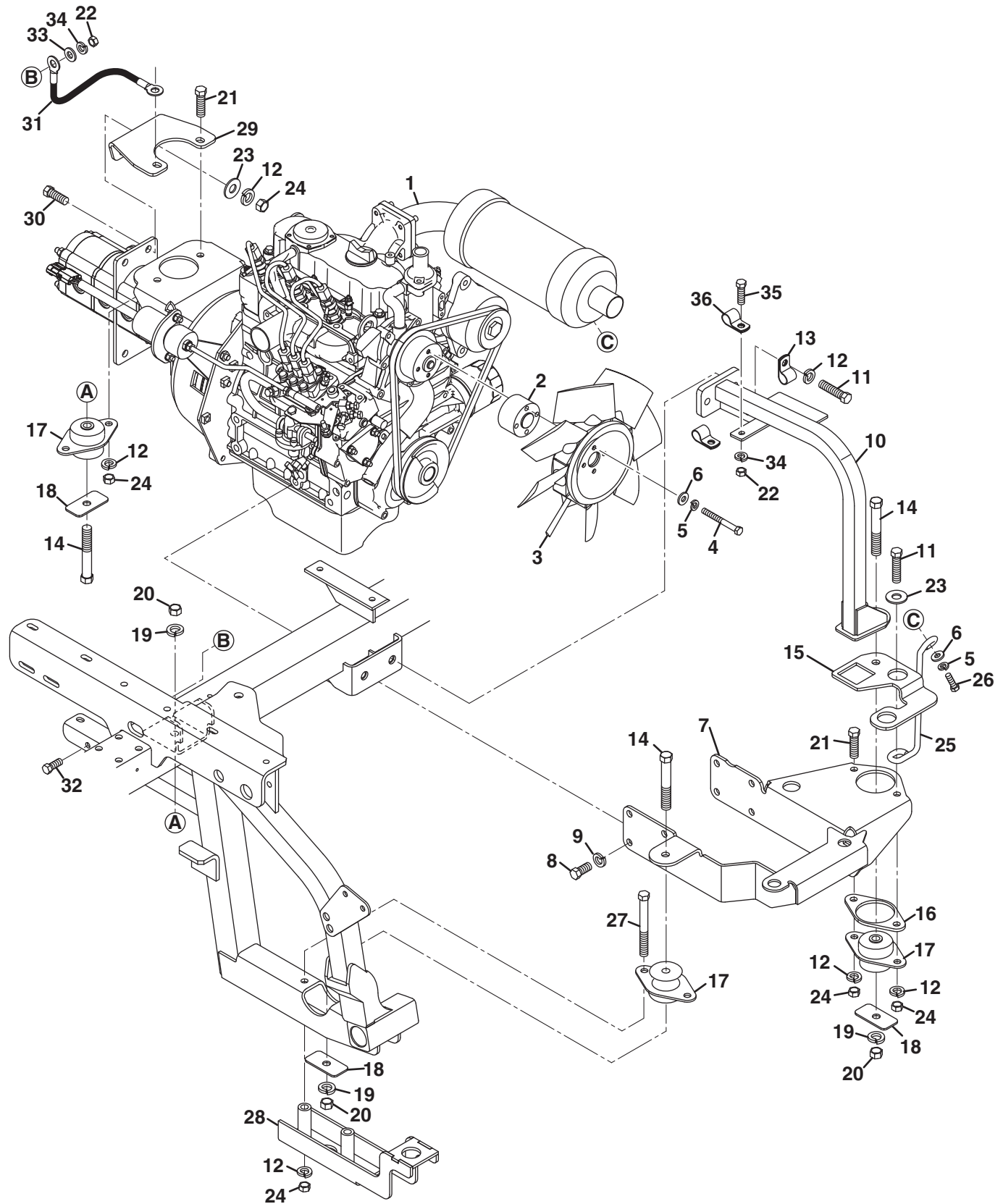


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4141036	1	Radiator	
2	4140400	1	Bracket, Radiator Shroud Mount	
3	4140402	1	Bracket, Radiator Shroud Support	
4	362535	8	Screw, M6-1 x 16 mm Hex Head	
5	446130	12	Lockwasher, 1/4 Heavy	
6	453023	12	Flat Washer, 1/4	
7	4141192	1	Shroud, Fan	
8	3009766	2	Foam, Radiator	
9	3004336	2	Fastener, 3 Piece	Includes Clip, Spring, and Handle
10	4142829	1	Shroud, Radiator	
11	4167663	4	Cushion, Radiator	
12	4140396	1	Bracket, Upper Radiator Mount	
13	4142467	1	Bracket, Top Radiator Mount	
14	4140395	1	Bracket, Lower Radiator Mount	
15	400104	2	Screw, 1/4-20 x 1/2" Hex Head	
16	443102	4	Nut, 1/4-20 Hex	
17	554231	1	Support, Tank	
18	4209393	1	Tank, Reserve	
19	400186	2	Screw, 5/16-18 x 7/8" Hex Head	
20	446136	2	Lockwasher, 5/16 Heavy	
21	443106	2	Nut, 5/16-18 Hex	
22	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
23	4142749	1	Lower Radiator Hose	
24	4142748	1	Upper Radiator Hose	
25	319914	4	Clamp, Hose	

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18.1 Engine Mounts



GREENS KING IV DIESEL

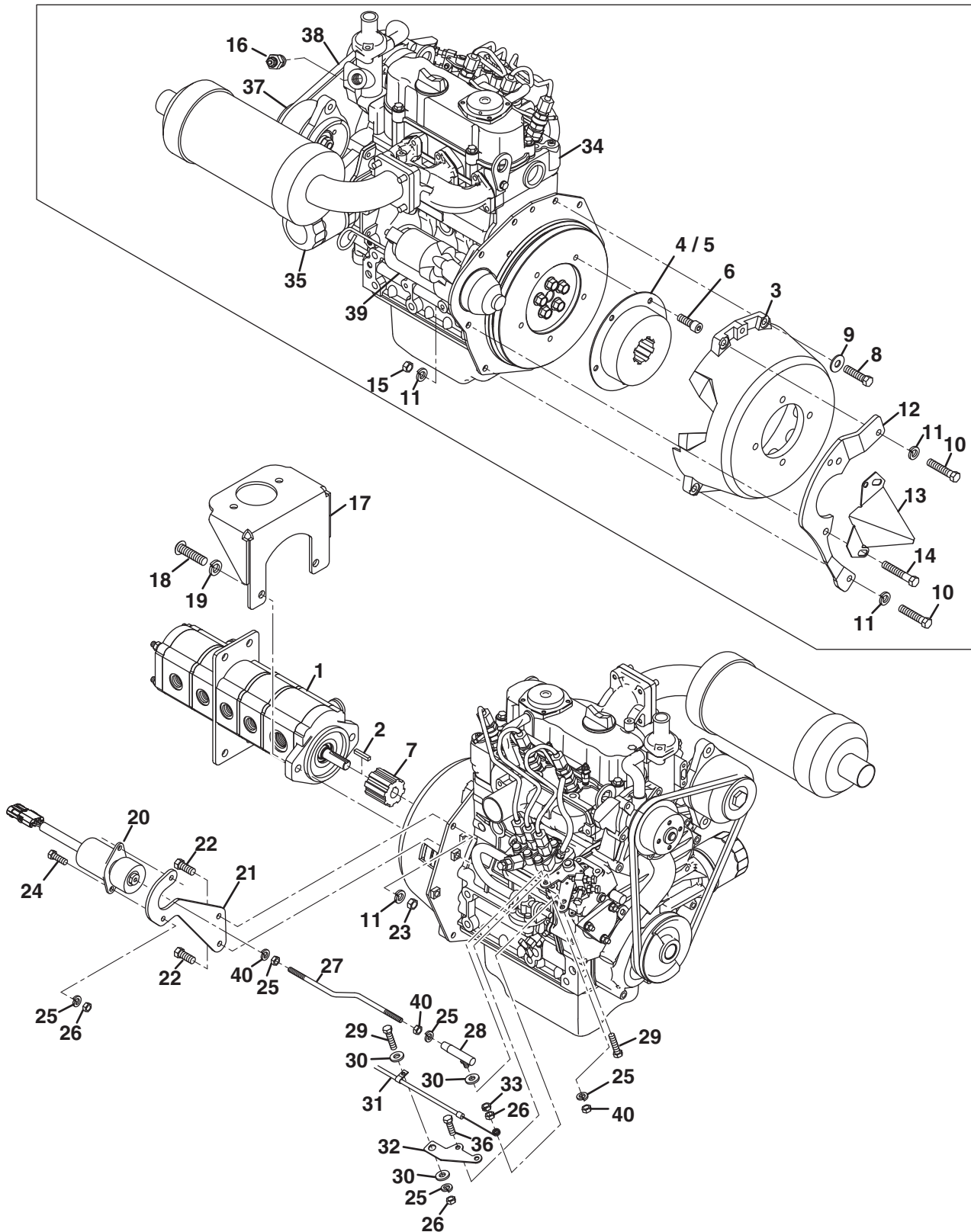
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Engine and Pump Assembly	See 19.1
2	4140509	1	Spacer, Fan	
3	4141024	1	Fan, 8 Blade	
4	64205-023	4	Screw, M6-1 x 55 mm Hex Head	
5	446130	5	Lockwasher, 1/4 Heavy	
6	453023	5	Flat Washer, 1/4	
7	1004263	1	Mount, Engine	
8	366884	8	Screw, M10-1.25 x 20 mm Hex Head	
9	363485	8	Lockwasher, M10	
10	5003558	1	Mount, Engine	
11	400266	3	Screw, 3/8-16 x 1-1/2" Hex Head	
12	446142	10	Lockwasher, 3/8 Heavy	
13	361064	1	Clamp	
14	400352	3	Screw, 7/16-14 x 2-3/4" Hex Head	
15	4141873	1	Support, Rear Radiator	
16	4141866	1	Plate, Engine Mount Offset	
17	3009488	3	Isolation Mount	
18	3009886	3	Washer, Isolator	
19	446148	3	Lockwasher, 7/16 Heavy	
20	443114	3	Nut, 7/16-14 Hex	
21	400264	5	Screw, 3/8-16 x 1-1/4" Hex Head	
22	443106	2	Nut, 5/16-18 Hex	
23	452008	3	Flat Washer, 3/8	
24	443110	8	Nut, 3/8-16 Hex	
25	3009497	1	Rod, Muffler Support	
26	3001337	1	Screw, M6-1 x 20 mm Hex Head	
27	401028	2	Screw, 3/8-16 x 3-1/4" Hex Head	
28	4141872	1	Support, Front Radiator	
29	4240445	1	Bracket, Pump Support	
30	400262	2	Screw, 3/8-16 x 1" Hex Head	
31	3009768	1	Cable, Engine Ground	
32	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
33	453009	1	Flat Washer, 5/16	
34	446136	2	Lockwasher, 5/16	
35	400188	1	Screw, 5/16-18 x 1" Hex Head	
36	363514	1	Clamp, 1"	

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GREENS KING IV DIESEL

19.1 Engine and Pump

Serial No. 62304 - 2018 and Up

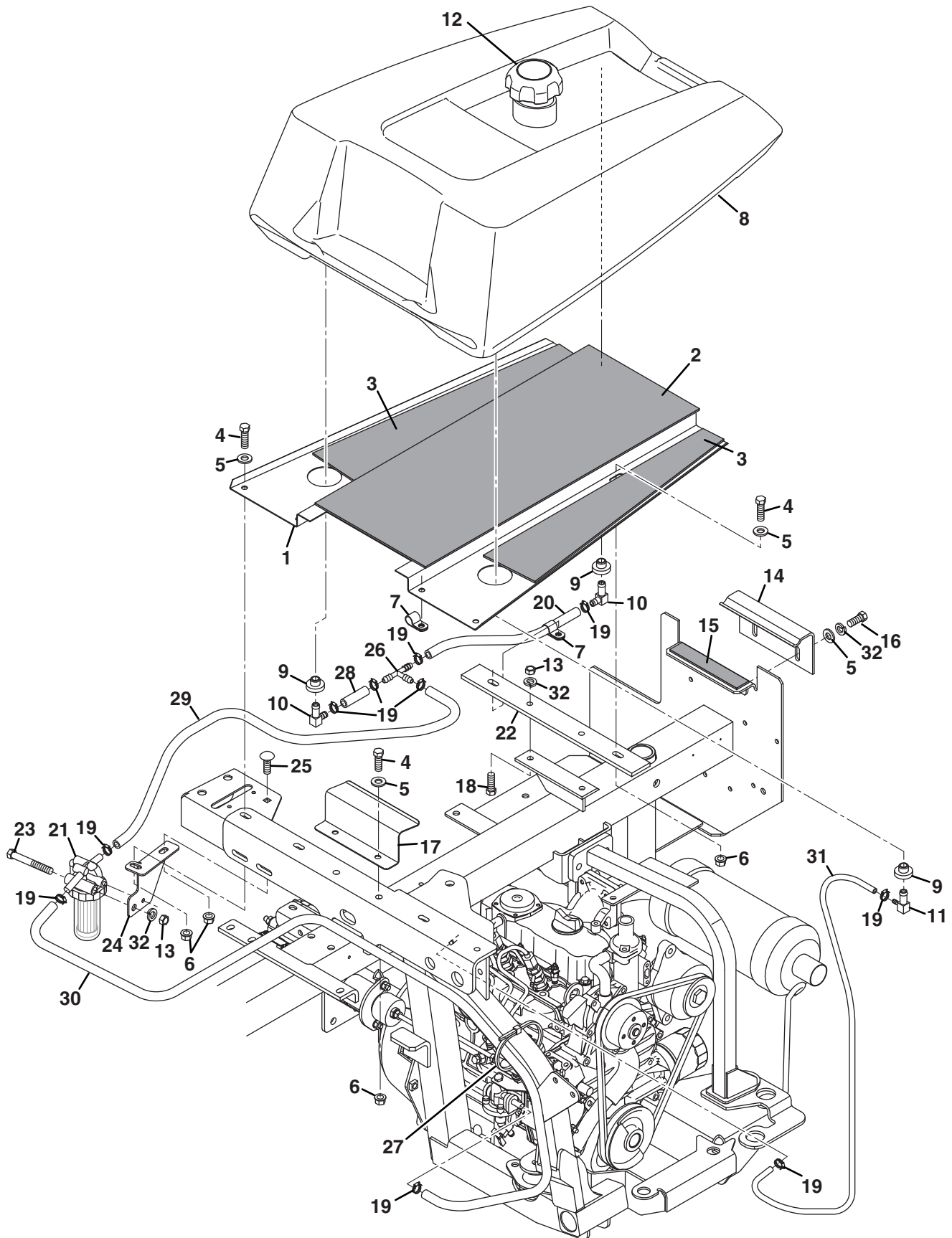


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4243202	1	Pump, 5 Section Gear Pump	
	4186661	1	• Seal Kit, 5 Section Pump	
2	332588	1	• Key, 3/16 Square x 1-1/8"	
3	4155760	1	Bell Housing	
4	4155761	1	• Coupler Service Kit	
5	N/S	1	• • Flange, Flywheel	
6	N/S	5	• • Screw, M8-1.25 x 22 mm	
7	N/S	1	• • Hub, Coupler	
8	N/S	4	• • Screw, M8-1.25 x 30 mm	Two Not Used
9	N/S	4	• • Flat Washer, M8	Two Not Used
10	64205-015	2	Screw, M8-1.25 x 35 mm Hex Head	
11	446134	6	Lockwasher, 5/16	
12	4188460	1	Bracket, Starter Support	
13	3009932	1	Cover, Starter	
14	400194	2	Screw, 5/16-18 x 1-3/4" Hex Head	
15	443106	2	Nut, 5/16-18 Hex	
16	364501	1	Temperature Sender	
17	4184061	1	Bracket, Pump Mount	
18	4205503	2	Screw, 3/8-16 x 22 mm Socket Head	
19	446142	2	Lockwasher, 3/8 Heavy	
20	338289	1	Solenoid, Fuel	
21	3008489	1	Bracket, Solenoid	
22	363586	2	Screw, M8-1.25 x 20 mm Hex Head	
23	362539	1	Nut, M8-1.25 Hex	
24	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
25	446130	6	Lockwasher, 1/4 Heavy	
26	443102	4	Nut, 1/4-20 Hex	
27	3009516	1	Rod, Solenoid Actuating	
28	162478	1	Ball Joint, 1/4-28	
29	400112	2	Screw, 1/4-20 x 1" Hex Head	
30	453023	3	Flat Washer, 1/4	
31	131805	1	Cable, Throttle	See 12.1
32	3004151	1	Bracket, Throttle Cable	
33	444708	1	Locknut, 1/4-20 Hex Center	
34	4190460	1	Engine, Kubota D772-E3B	
35	5002644	1	• Engine Oil Filter	
36	550363	2	• Screw, M6	
37	2810842	1	• Dynamo	
38	5001951	1	• Belt, V	
39	5002731	1	• Starter	
40	443104	3	Nut, 1/4-28 Hex	

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20.1 Fuel Tank

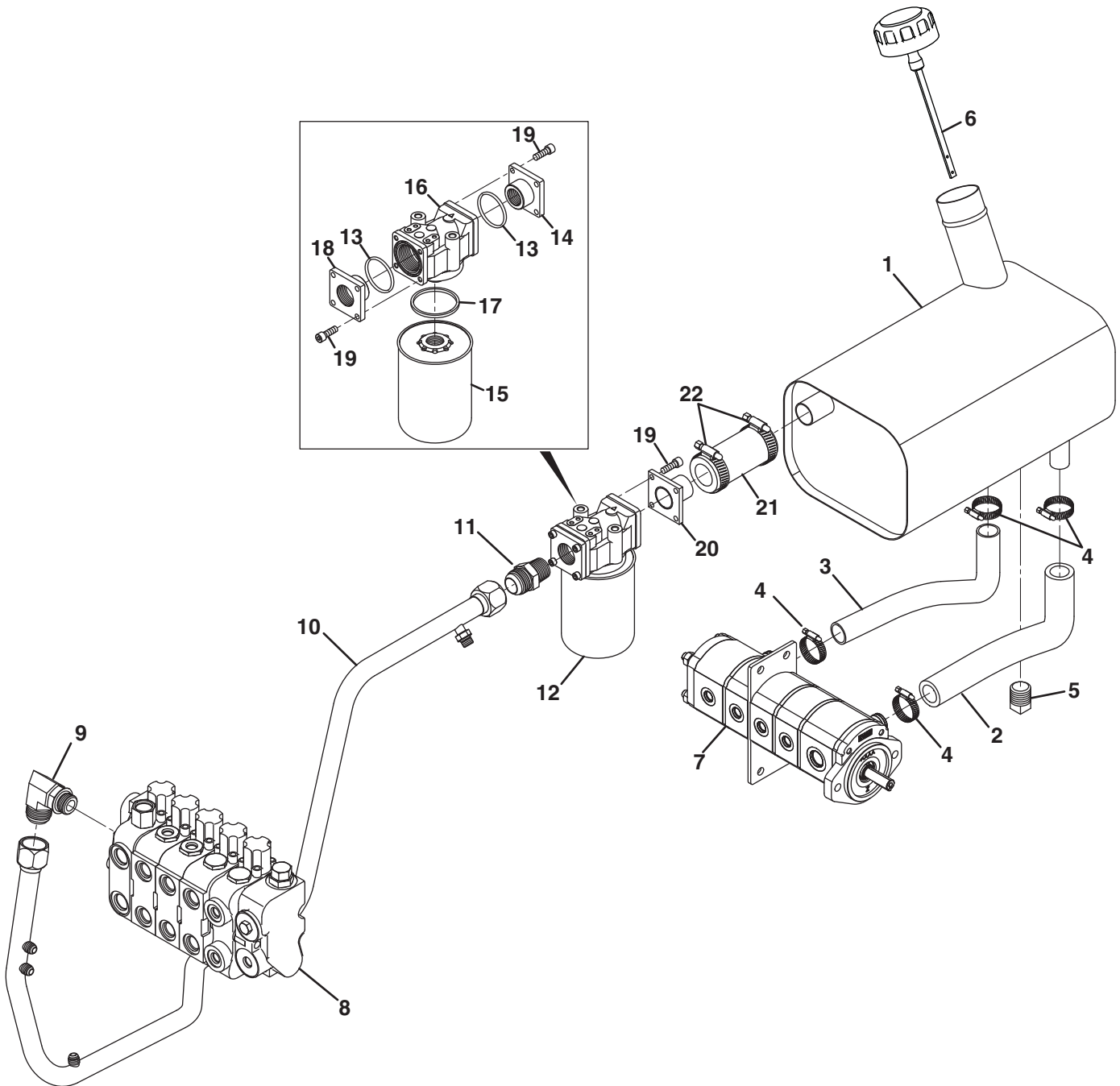


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	390344	1	Pan, Tank Support	
2	337306	1	Pad, Neoprene	
3	337295	2	Pad, Neoprene	
4	400188	8	Screw, 5/16-18 x 1" Hex Head	
5	453009	10	Flat Washer, 5/16	
6	445781	9	Nut, 5/16-18 Whizlock Flange	
7	345666	2	Clamp, 1/2"	
8	3009934	1	Tank, Fuel	
9	361117	3	Bushing, Tank	
10	3003704	2	Fitting, 90° Fuel	
11	361748	1	Fitting, 90° Fuel Valve	
12	4179802	1	Cap, Fuel Tank	
13	443106	3	Nut, 5/16-18 Hex	
14	557773	1	Clamp, Rear Tank	
15	361174	1	Pad, Rubber	
16	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
17	3001321	1	Clamp, Front Tank	
18	400186	2	Screw, 5/16-18 x 7/8" Hex Head	
19	48540-01	10	Clamp, Hose	
20	554748	AR	Hose, Rear Tank Fitting to Tee	10 ft. Length, cut to 19"
21	4209363	1	Fuel Filter	
	550489	1	• Element, Fuel Filter	
22	361144	1	Plate, Tank Adapter	
23	400200	1	Screw, 5/16-18 x 2-1/2" Hex Head	
24	3009933	1	Bracket, Fuel Filter	
25	441602	1	Carriage Bolt, 5/16-18 x 3/4"	
26	366354	1	Tee, Nylon	
27	473142	1	Cable Tie, 3/16 x 14"	
28	554748	AR	Hose, Front Tank Fitting to Tee	10 ft. Length, cut to 4"
29	554748	AR	Hose, Tee to Filter	10 ft. Length, cut to 9"
30	554748	AR	Hose, Filter to Engine	10 ft. Length, cut to 40"
31	554752	AR	Hose, 3/16" Fuel	10 ft. Length, cut to 16"
32	446136	5	Lockwasher, 5/16 Heavy	

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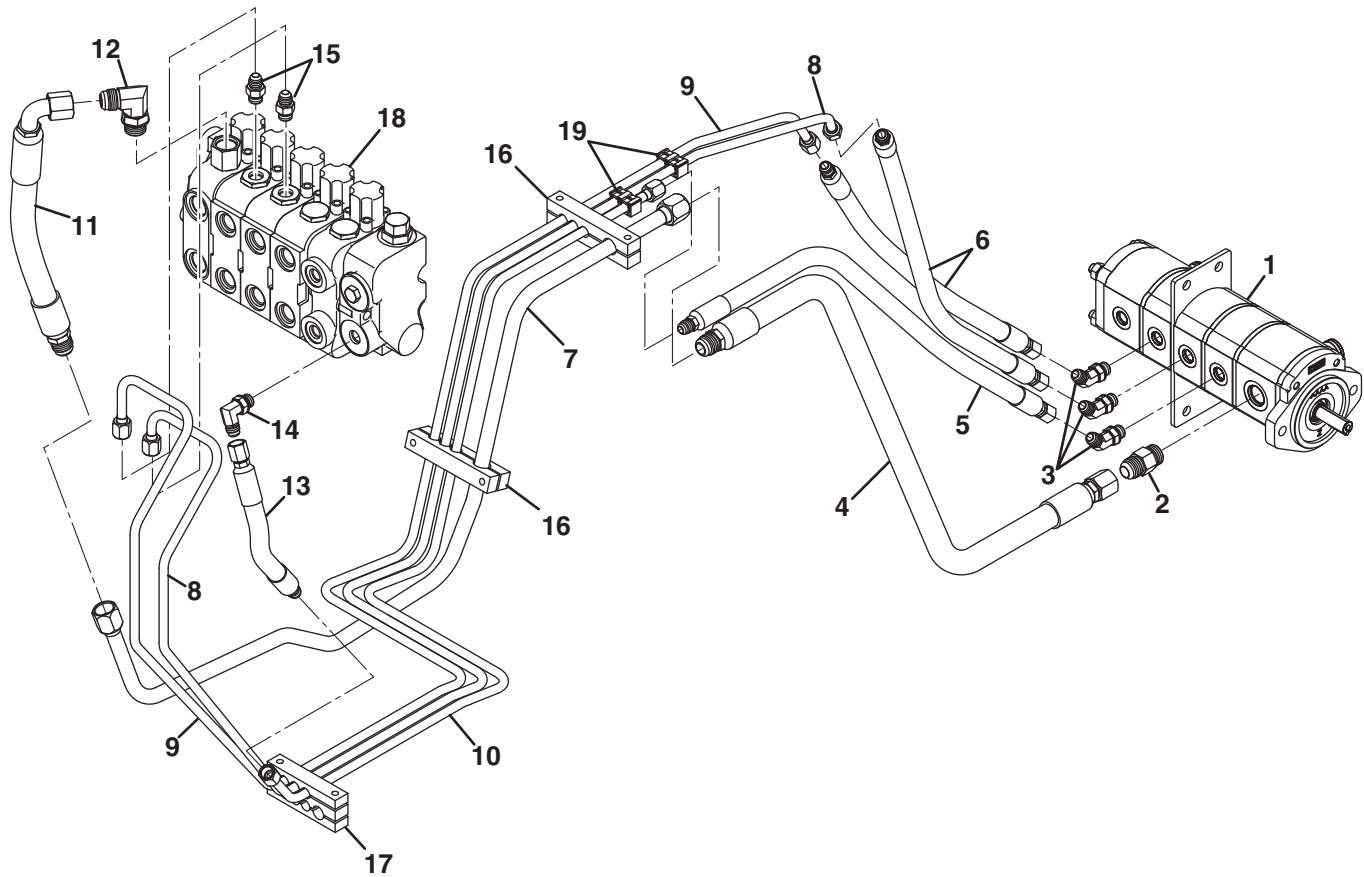
21.1 Tank Hydraulics



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123077	1	Tank, Hydraulic	
2	4183180	1	Hose, Tank to Pump Inside	
3	338291	1	Hose, Tank to Pump Outside	
4	319914	4	Clamp, Hose	
5	472207	1	Plug, 1/2 NPT Square Head	
6	4130472	1	Filler Cap/Dipstick	
7	4243202	1	Pump, 5 Section Gear Pump	See 19.1
8	116536	1	5 Spool Valve	See 34.1
9	354064	1	Fitting, -16 37° Flare x -12 ORB 90°	
	339900	1	• O-Ring, -12 ORB	
10	4201506	1	Tube, Valve Return	
	339897	1	• O-Ring, -6 ORB	
11	354067	1	Fitting, -16 37° x 1" NPTF Straight	
12	132890	1	Hydraulic Oil Filter	See 12.1 for Mounting
13	551137	2	• Adapter, Seal	
14	N/S	1	• Adapter, 3/4-14 NPTF	Outlet, Not Used, Use Item 20
15	558022	1	• Cartridge, Element	
16	558023	1	• Head Assembly	
17	555395	1	• Cartridge, Seal	
18	551139	1	• Adapter, 1"-11/12 NPTF	Inlet
19	551140	8	• Adapter, Screw	
20	162725	1	Tube and Flange	
21	4201500	1	Hose	
22	326112	2	Clamp	

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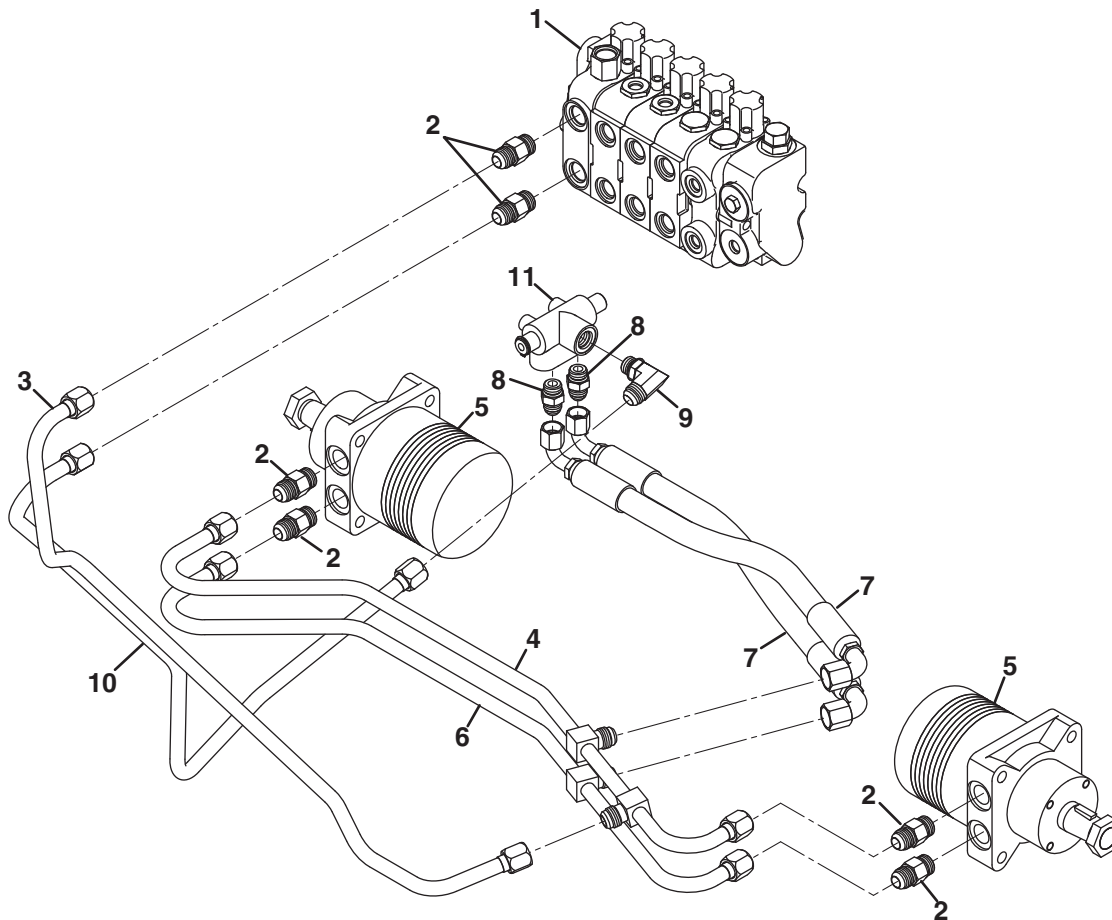
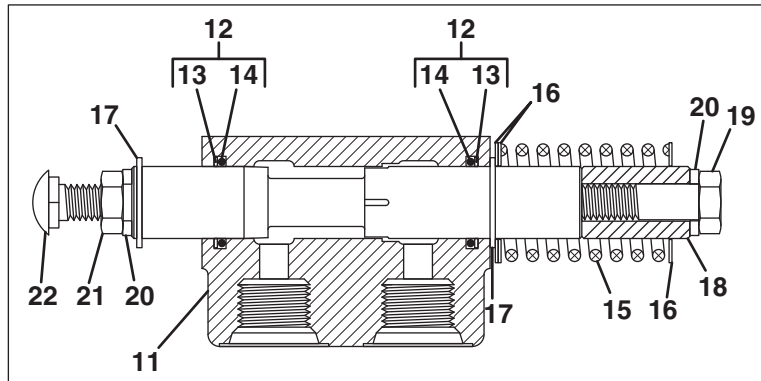


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4243202	1	Pump, 5 Section Gear Pump	See 19.1
2	350947	1	Fitting, -10 37° x -10 ORB Straight	
	339899	1	• O-Ring, -10 ORB	
3	351399	3	Fitting, -6 37° Flare x -6 ORB 45°	
	339897	1	• O-Ring, -6 ORB	
4	4210800	1	Hose, Pump Section A to Tube	
5	2811643	1	Hose, Pump Section B to Tube	
6	2811644	2	Hose, Pump Section C&D to Tube	
7	116545	1	Tube, Pump to Valve (Traction)	
8	4200460	1	Tube, Pump to Valve (Center Reel)	
9	4200440	1	Tube, Pump to Valve (Left Reel)	
10	2500665	1	Tube, Pump to Valve (Right Reel)	
11	131153	1	Hose, Traction Tube to Valve	
12	354065	1	Fitting, -10 37° Flare x -10 ORB 90°	
	339899	1	• O-Ring, -10 ORB	
13	2500666	1	Hose, Right Reel Tube to Valve	
14	351107	1	Fitting, -6 37° Flare x -6 ORB 90°	
	339897	1	• O-Ring, -6 ORB	
15	351109	2	Fitting, -6 37° x -6 ORB Straight	
	339897	1	• O-Ring, -6 ORB	
16	354082	2	Clamp, Four Pump Tube	
17	361137	1	Clamp, Seven Tube	
18	116536	1	5 Spool Valve	See 34.1
19	4244669	2	Clip, Double Tube	

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23.1 Traction Hydraulics

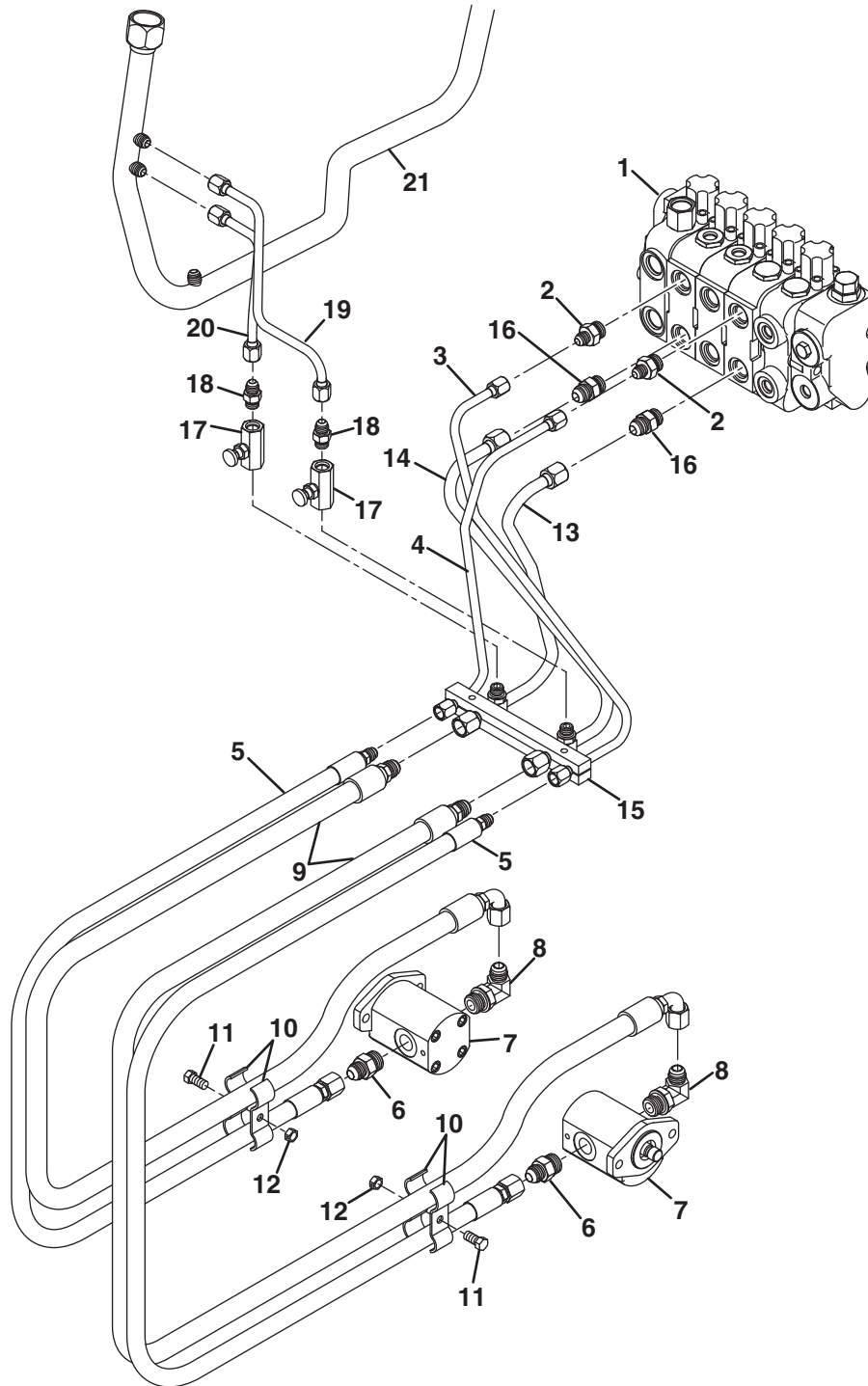


GREENS KING IV PLUS

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	116536	1	5 Spool Valve	See 34.1
2	350947	6	Fitting, -10 37° x -10 ORB Straight	
	339899	1	• O-Ring, -10 ORB	
3	116543	1	Tube, Valve to Upper Motor Tube	Forward Pressure
4	2500086	1	Tube, Upper Motor Ports	
5	122675	2	Wheel Motor	See 9.1
6	122506	1	Tube, Lower Motor Ports	
7	131149	2	Hose, Motor Tube to Metering Valve	
8	351108	2	Fitting, -8 37° x -8 ORB Straight	
	339898	1	• O-Ring, -8 ORB	
9	361474	1	Fitting, -10 37° Flare x -8 ORB 90°	
	339898	1	• O-Ring, -8 ORB	
10	116714	1	Tube, Metering Valve to Valve	Reverse Pressure
11	503128	1	Valve, Traction Metering	
12	503127	1	• Seal Repair Kit	
13	N/S	2	• • Ring, Backup	
14	N/S	2	• • Seal, O-Ring	
15	363684	1	• Spring	
16	306828	3	• Washer, 0.03 in.	
17	546229	2	• Snap Ring	
18	361139	1	Spacer	
19	400268	1	Screw, 3/8-16 x 1-3/4" Hex Head	
20	446142	2	Lockwasher, 3/8 Heavy	
21	443810	1	Nut, 3/8-16 Hex Jam	
22	440120	1	Carriage Bolt, 3/8-16 x 1-1/4"	

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24.1 Front Reel Hydraulics

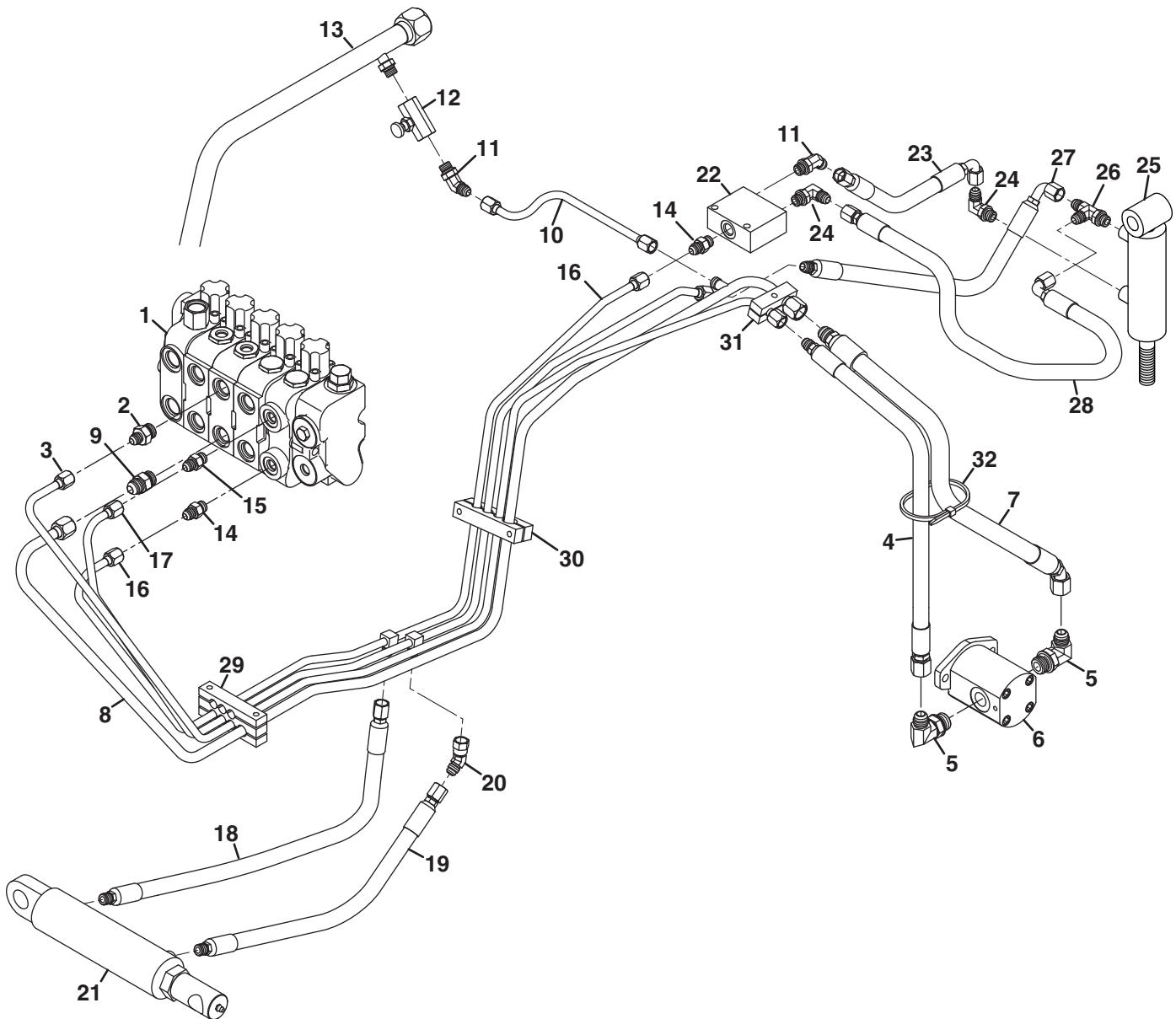


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	116536	1	5 Spool Valve	See 34.1	
2	342199	2	Fitting, -6 37° x -8 ORB Straight		
	339898	1	• O-Ring, -8 ORB		
3	2500084	1	Tube, Left Reel Pressure		
4	2500085	1	Tube, Right Reel Pressure		
5	1000223	2	Hose, Front Reel Pressure		
6	361165	2	Fitting, -8 37° x -10 ORB Straight		
	339899	1	• O-Ring, -10 ORB		
7	4143249	2	Motor, Hydraulic Reel		See 31.1
	4158280	1	• Seal Kit		
8	360039	2	Fitting, -8 37° Flare x -10 ORB 90°		
	339899	1	• O-Ring, -10 ORB		
9	1000224	2	Hose, Front Reel Return		
10	361154	4	Clamp, Tube		
11	400182	2	Screw, 5/16-18 x 5/8" Hex Head		
12	444718	2	Locknut, 5/16-18 Hex Center		
13	2500082	1	Tube, Left Reel Return		
	339897	1	• O-Ring, -6 ORB		
14	2500083	1	Tube, Right Reel Return		
	339897	1	• O-Ring, -6 ORB		
15	338270	1	Clamp, Reel Motor Tubes		
16	351108	2	Fitting, -8 37° x -8 ORB Straight		
	339898	1	• O-Ring, -8 ORB		
17	162561	2	Needle Valve		
18	351109	2	Fitting, -6 37° x -6 ORB Straight		
	339897	1	• O-Ring, -6 ORB		
19	2500087	1	Tube, Left Side Backlap	See 21.1	
20	131146	1	Tube, Right Side Backlap		
21	4201506	1	Tube, Valve Return		
21	339897	1	• O-Ring, -6 ORB		

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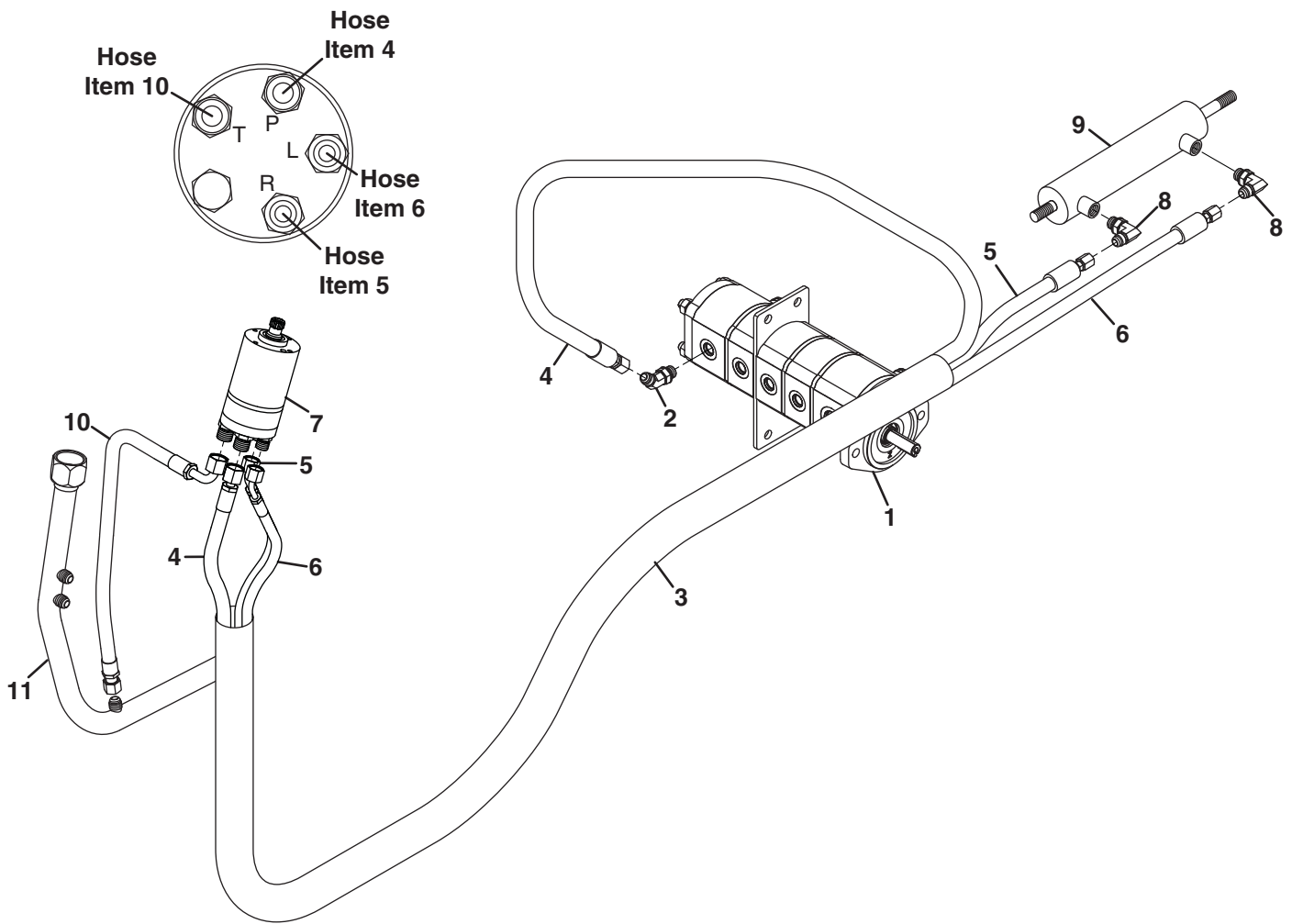
25.1 Rear Reel and Lift Hydraulics



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	116536	1	5 Spool Valve	See 34.1
2	342199	2	Fitting, -6 37° x -8 ORB Straight	
	339898	1	• O-Ring, -8 ORB	
3	4201504	1	Tube, Center Reel Pressure	
4	1001011	1	Hose, Center Reel Pressure	
5	360039	2	Fitting, -8 37° Flare x -10 ORB 90°	
	339899	1	• O-Ring, -10 ORB	
6	4143249	1	Motor, Hydraulic Reel	See 31.1
	4158280	1	• Seal Kit	
7	1001012	1	Hose, Center Reel Return	
8	4201503	1	Tube, Center Reel Return	
9	351108	2	Fitting, -8 37° x -8 ORB Straight	
	339898	1	• O-Ring, -8 ORB	
10	4201505	1	Tube, Center Reel Backlap	
11	351399	2	Fitting, -6 37° x -6 ORB 45°	
	339897	1	• O-Ring, -6 ORB	
12	162561	1	Needle Valve	
13	4201506	1	Tube, Valve Return	See 21.1
	339897	1	• O-Ring, -6 ORB	
14	351109	2	Fitting, -6 37° x -6 ORB Straight	
	339897	1	• O-Ring, -6 ORB	
15	357921	1	Fitting, -6 37° x -6 ORB Orifice	Standard, 0.059 in. Orifice
15	554363	1	Fitting, -6 37° x -6 ORB Orifice	Soft Drop Option, 0.052 in. Orifice
	339897	1	• O-Ring, -6 ORB	
16	116551	1	Tube, Valve to Load Control Valve	
17	116550	1	Tube, Valve to Rear Cylinder	
18	131451	1	Hose, Front Cylinder Raise	Cylinder Base Port
	339897	1	• O-Ring, -6 ORB	
19	160041	1	Hose, Front Cylinder Lower	Cylinder Rod Port
	339897	1	• O-Ring, -6 ORB	
20	359068	1	Fitting, -6 37° Flare 45° Swivel	
21	4271776	1	Front Lift Cylinder	See 28.1
22	4135654	1	Valve, Load Control	See 12.1
23	4124636	1	Hose, Load Valve to Cylinder	Cylinder Rod Port
24	351107	1	Fitting, -6 37° x -6 ORB 90°	
	339897	1	• O-Ring, -6 ORB	
25	4271775	1	Center Lift Cylinder	See 29.1
26	4136448	1	Tee, -6 37° x -6 ORB Orifice Run	0.043 in. Orifice
	339897	1	• O-Ring, -6 ORB	
27	4218200	1	Hose, Tube to Rear Cylinder Tee	
28	4124636	1	Hose, Cylinder Tee to Load Valve	
29	361137	1	Clamp, Seven Tube	
30	337287	1	Clamp, Rear Reel Tube	
31	354088	1	Clamp, Rear Reel Motor Tube	
32	473137	1	Cable Tie	

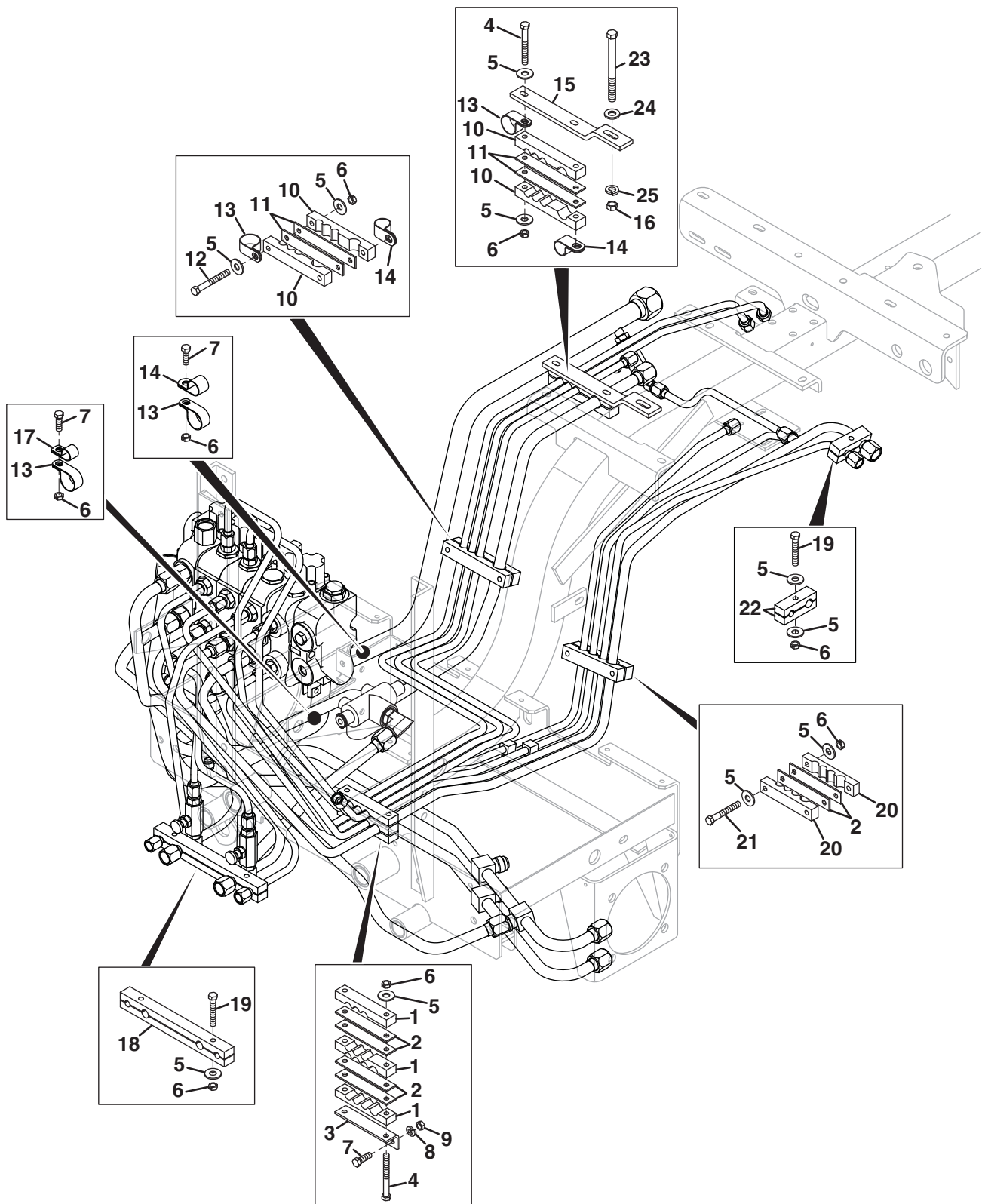
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GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4243202	1	Pump, 5 Section Gear Pump	See 19.1
2	351399	1	Fitting, -6 37° Flare x -6 ORB 45°	
	339897	1	• O-Ring, -6 ORB	
3	4203884	1	Bundle, Power Steering Hoses	
4	4203883	1	• Hose, Pump to Steering Valve	Steering Valve Port P
5	4203881	1	• Hose, Valve to Cylinder Base Port	Steering Valve Port R (White Dot)
6	4203882	1	• Hose, Valve to Cylinder Rod Port	Steering Valve Port L
7	4196484	1	Valve, Steering	See 15.1
	4197940	1	• Seal Kit	
8	351107	2	Fitting, -6 37° x -6 ORB 90°	
	339897	1	• O-Ring, -6 ORB	
9	4271777	1	Steering Cylinder	See 14.1
	4276851	1	• Seal Kit	
10	4203880	1	Hose, Steering Valve to Return Tube	Steering Valve Port T
11	4201506	1	Tube, Valve Return	See 21.1
12	473144	3	Cable Tie (Not Shown)	

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GREENS KING IV DIESEL

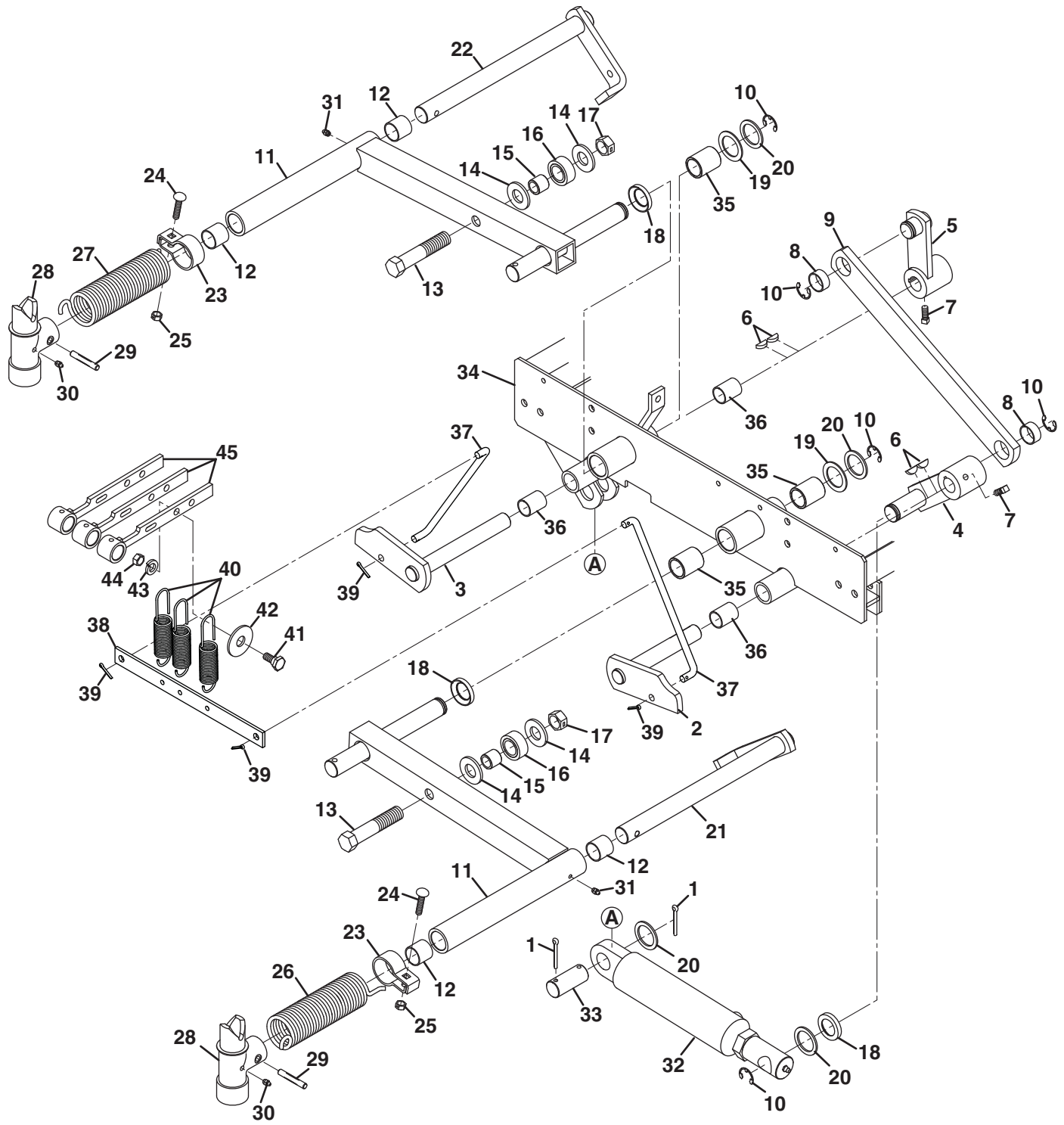
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	361137	1	Clamp, Seven Tube	
2	357854	6	Liner, Tube Clamp	
3	361105	1	Bracket, Tube Support	
4	400122	4	Screw, 1/4-20 x 2-1/4" Hex Head	
5	452004	18	Flat Washer, 1/4	
6	444708	13	Locknut, 1/4-20 Hex Center	
7	400108	4	Screw, 1/4-20 x 3/4" Hex Head	
8	446130	2	Lockwasher, 1/4 Heavy	
9	443102	2	Nut, 1/4-20 Hex	
10	354082	2	Clamp, Four Pump Tube	
11	354096	4	Liner, Tube Clamp	
12	400120	2	Screw, 1/4-20 x 2" Hex Head	
13	354080	4	Clamp, 1" Tube	
14	345671	3	Clamp, 3/4" Tube	
15	357608	1	Strap, Tube Support	
16	443106	1	Nut, 5/16-18	
17	360970	1	Clamp, 5/8" Tube	
18	338270	1	Clamp, Reel Motor Tube	
19	400116	3	Screw, 1/4-20 x 1-1/2" Hex Head	
20	337287	1	Clamp, Rear Reel Tube	
21	400118	2	Screw, 1/4-20 x 1-3/4" Hex Head	
22	354088	1	Clamp, Rear Reel Motor Tube	
23	400204	1	Screw, 5/16-18 x 3-1/2" Hex Head	
24	453009	1	Flat Washer, 5/16	
25	446136	1	Lockwasher, 5/16 Heavy	

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GREENS KING IV DIESEL

28.1 Front Lift Arms

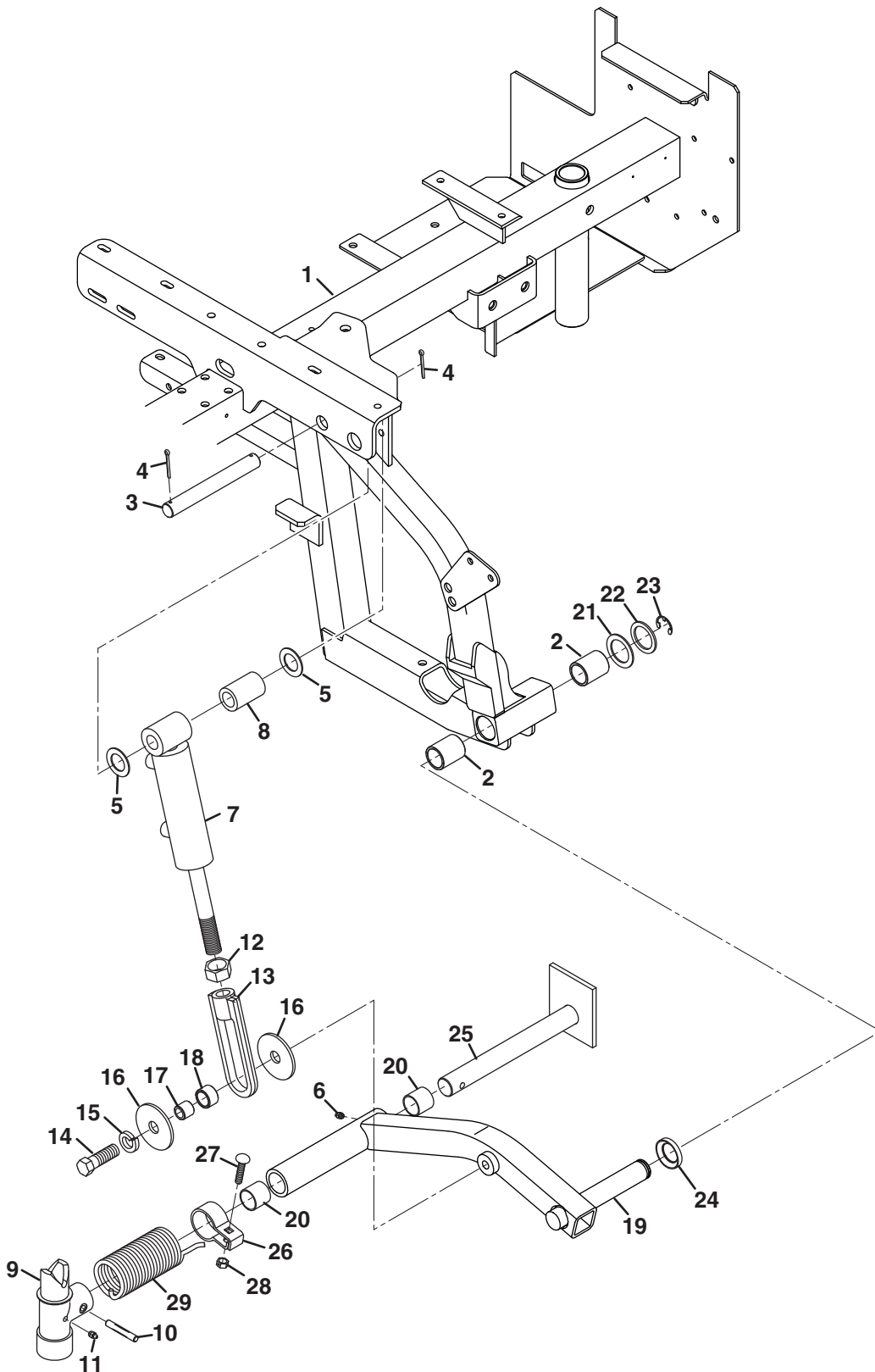
Serial No. 62304 - 2018 and Up



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	460052	2	Cotter Pin, 3/16 x 1-1/2"	
2	160033	1	Cam, Left Side Lift	
3	160034	1	Cam, Right Side Lift	
4	131675	1	Lever, Left Side Lift	
5	131498	1	Lever, Right Side Lift	
6	463017	4	Key, 3/16 x 3/4" Woodruff	
7	412017	2	Screw, 5/16-18 x 3/4" Square Head	
8	350542	2	Bushing, Lift Connecting Bar	
9	353927	1	Bar, Lift Connecting	
10	458433	5	Snap Ring, 1" Shaft External	
11	503648	2	Front Lift Arm	
12	365001	2	• Bushing, Mower Pivot	
13	400624	2	Screw, 5/8-11 x 3" Hex Head	
14	453020	4	Flat Washer, 5/8	
15	3009234	2	Spacer, Lift Cam Roller	
16	1004059	2	Roller, Lift Cam	
17	444752	2	Locknut, 5/8-11 Hex Center	
18	367349	3	Washer, Thrust	
19	345699	AR	Washer, 1/16" Thick	
20	303629	AR	Washer, 5/64" Thick	
21	163431	1	Shaft, Front Left Mower	
22	163430	1	Shaft, Front Right Mower	
23	365007	2	Clamp, Torsion Spring	
24	440086	2	• Carriage Bolt, 5/16-18 x 1-1/2"	
25	444718	2	• Locknut, 5/16-18 Hex Center	
26	353935	1	Spring, Left Side Torsion	
27	353938	1	Spring, Right Side Torsion	
28	5002569	2	Housing, Swivel	
29	461338	1	• Groove Pin, 5/16 x 2" E Type	
30	471214	1	• Grease Fitting, 1/4-28 Straight	
31	471216	2	Grease Fitting, 1/4-28 Short Straight	
32	4271776	1	Lift Cylinder, Front	
	4280311	1	• Seal Repair Kit	
33	345293	1	Pin, Cylinder Mounting	
34	N/S	1	Frame Assembly	See 10.1 for Service
35	3007694	4	• Bushing, 1" Shaft	
36	357999	4	• Bushing, 7/8" Shaft	
37	363912	2	Link, Tie Bar	
38	363913	1	Bar, Tie	
39	460026	4	Cotter Pin, 1/8 x 3/4"	
40	354012	3	Spring	
41	344996	3	Shoulder Bolt, 3/8-16	
42	307524	3	Washer	
43	446142	3	Lockwasher, 3/8 Heavy	
44	443110	3	Nut, 3/8-16 Hex	
45	131125	3	Lever, Reel Spool	See 6.1

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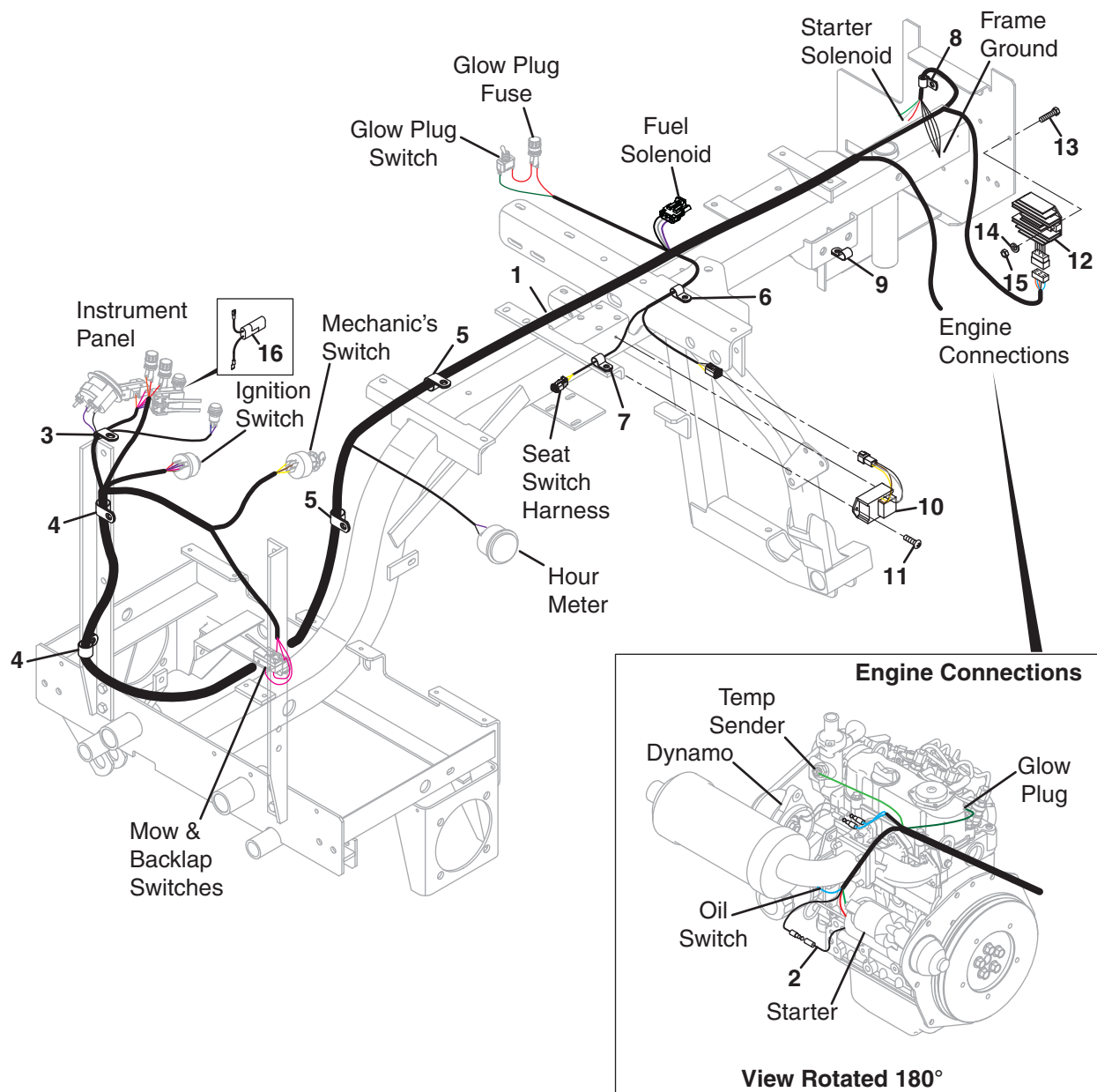


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Frame Assembly	See 10.1 for Service
2	3007694	2	• Bushing, 1" Shaft	
3	354039	1	Pin, Cylinder Mounting	
4	367437	2	Cotter Pin, 9/64 x 1-1/4"	
5	349213	AR	Bushing, 3/4	
6	471216	1	Grease Fitting, 1/4-28 Short Straight	
7	4271775	1	Rear Lift Cylinder	
	4276851	1	• Seal Kit	
8	366178	1	Spacer	
9	5002569	1	Housing, Swivel	
10	461338	1	• Groove Pin, 5/16 x 2" E Type	
11	471214	1	• Grease Fitting, 1/4-28 Straight	
12	443832	1	Nut, 3/4-16 Hex Jam	
13	241816	1	Bracket, Lift	
14	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
15	446154	1	Lockwasher, 1/2 Heavy	
16	323943	2	Washer	
17	353906	1	Spacer, Roller	
18	353907	1	Roller	
19	503644	1	Lift Arm, Center Mower	
20	365001	2	• Bushing, Mower Pivot	
21	345699	AR	Washer, 1/16" Thick	
22	303629	AR	Washer, 5/64" Thick	
23	458433	1	Snap Ring, 1" Shaft External	
24	367349	1	Thrust Washer	
25	2500167	1	Shaft, Center Mower	
26	365007	1	Clamp, Torsion Spring	
27	440086	1	• Carriage Bolt, 5/16-18 x 1-1/2"	
28	444718	1	• Locknut, 5/16-18 Hex Center	
29	365003	1	Spring, Torsion	

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30.1 Harness Routing



GREENS KING IV DIESEL

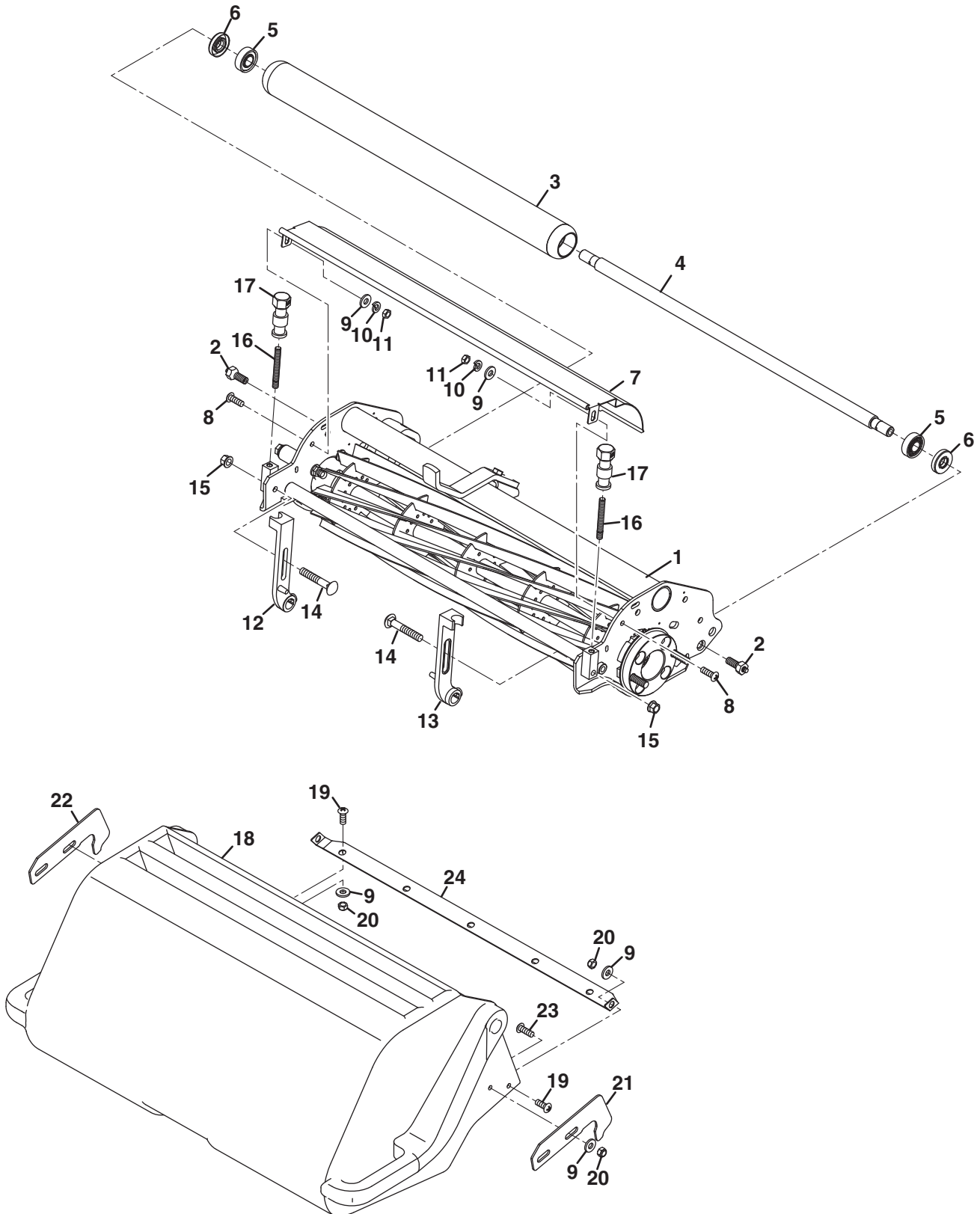
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811573	1	Harness, Main Wire	
2	1004908	1	Wire, Starter to Harness	
3	3003773	1	Clamp, 1/4"	See 5.1
4	345671	2	Clamp, 5/8"	See 11.1
5	345671	2	Clamp, 3/4"	See 27.1
6	345666	1	Clamp, 1/2"	See 20.1
7	345666	1	Clamp, 1/2"	See 4.1
8	354081	1	Clamp, 3/8"	See 12.1
9	345666	1	Clamp, 1/2"	See 12.1
10	3009544	1	Seat Time Delay Relay	
11	408889	2	Screw, #10-24 x 5/8" Thread Form	
12	4209367	1	Voltage Regulator	Included with Engine
13	400112	2	Screw, 1/4-20 x 1" Hex Head	
14	446130	2	Lockwasher, 1/4 Heavy	
15	443102	2	Nut, 1/4-20 Hex	
16	4263652	1	Harness, Brake Light Resistor	680 Ω , 0.25 Watt Resistor

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GREENS KING IV DIESEL

Serial No. All

32.1 Outer Reel Assembly

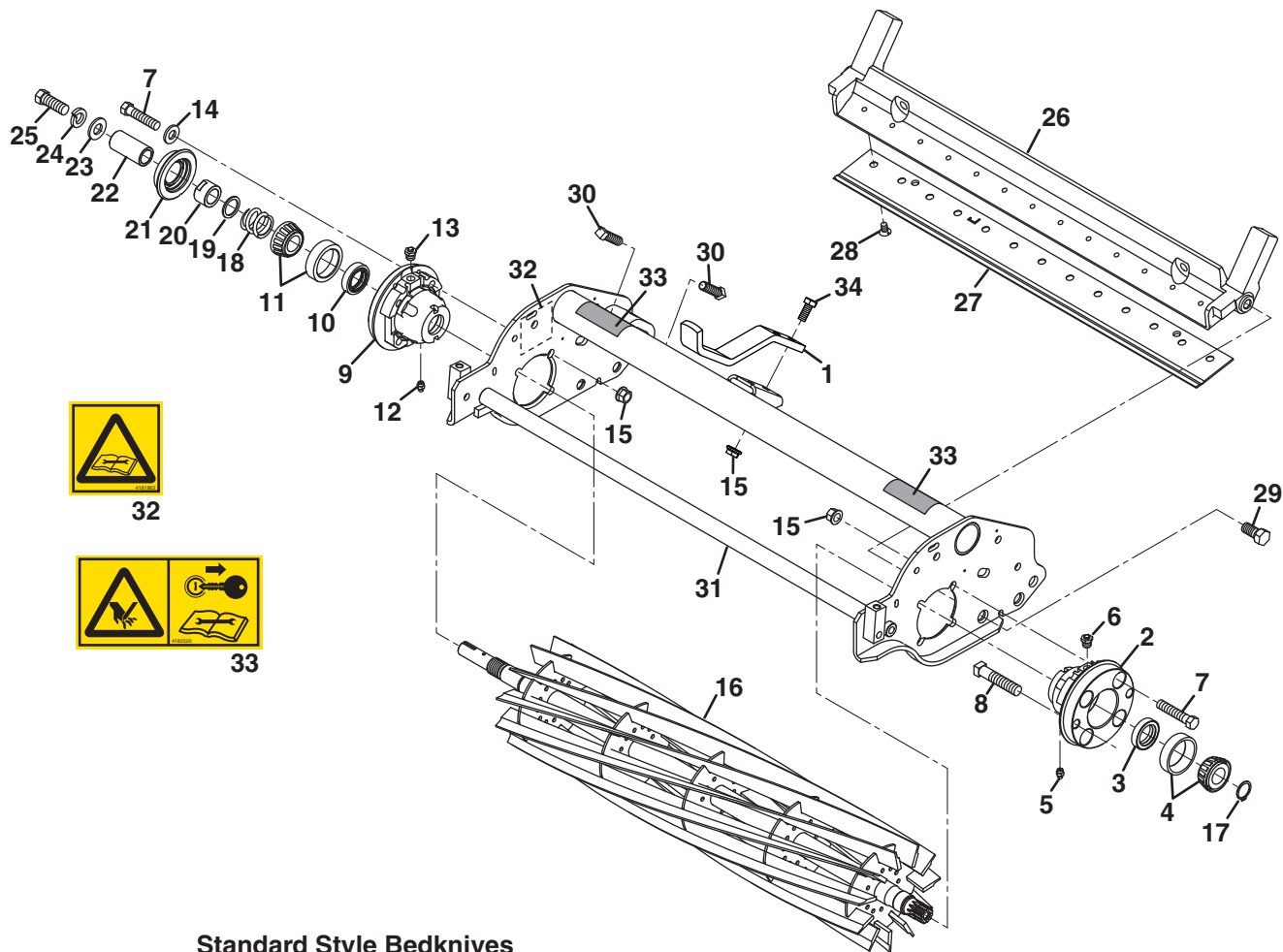


GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Inner Reel Assembly	See 33.1
2	1002224	2	Zerk Bolt	
3	1004990	1	Rear Roller	
4	3010422	1	• Roller Shaft	
5	3010712	2	• Bearing, Roller	
6	3010286	2	• Seal, Roller	
7	2810043	1	Shield, Grass	
8	403782	2	Screw, 1/4-20 x 3/4" Truss Head	
9	453023	13	Flat Washer, 1/4	
10	446130	2	Lockwasher, 1/4 Heavy	
11	443102	2	Nut, 1/4-20 Hex	
12	3008438	1	Bracket, Right Side Front Roller	
13	3008439	1	Bracket, Left Side Front Roller	
14	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
15	445795	2	Nut, 5/16-18 Spirallock Flange	
16	343616	2	Stud, Front Roller Adjuster	
17	3005692	2	Knob, Front Roller Adjuster	
18	67891	1	Grass Catcher Assembly	
19	404016	7	Screw, 5/16-18 x 5/8" Truss Head	
20	445770	11	Nut, 5/16-18 Nylon Insert	
21	4245011	1	Bracket, Left Side Catcher Stop	
22	4245010	1	Bracket, Right Side Catcher Stop	
23	404018	4	Screw, 1/4-20 x 3/4" Truss Head	
24	4141629	1	Bracket, Stop	

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33.1 Inner Reel Assembly



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Standard Style Bedknives (Secured with screws)

Part Number	Description
▲ 5003150	22" Medium Section
503477	22" High Profile
■ 503478	22" Low Profile
● 503479	22" Tournament
5002887	22" Super Tournament
4234900	22" Championship

- 11 Blade Reel Standard Bedknife
- 9 Blade Reel Standard Bedknife
- ▲ 7 Blade Reel Standard Bedknife

Optional MagKnife Bedknives

Part Number	Description
4131005	22" Medium Section
4131369	22" High Profile
4131001	22" Low Profile
4131370	22" Tournament
4131003	22" Super Tournament

GREENS KING IV DIESEL

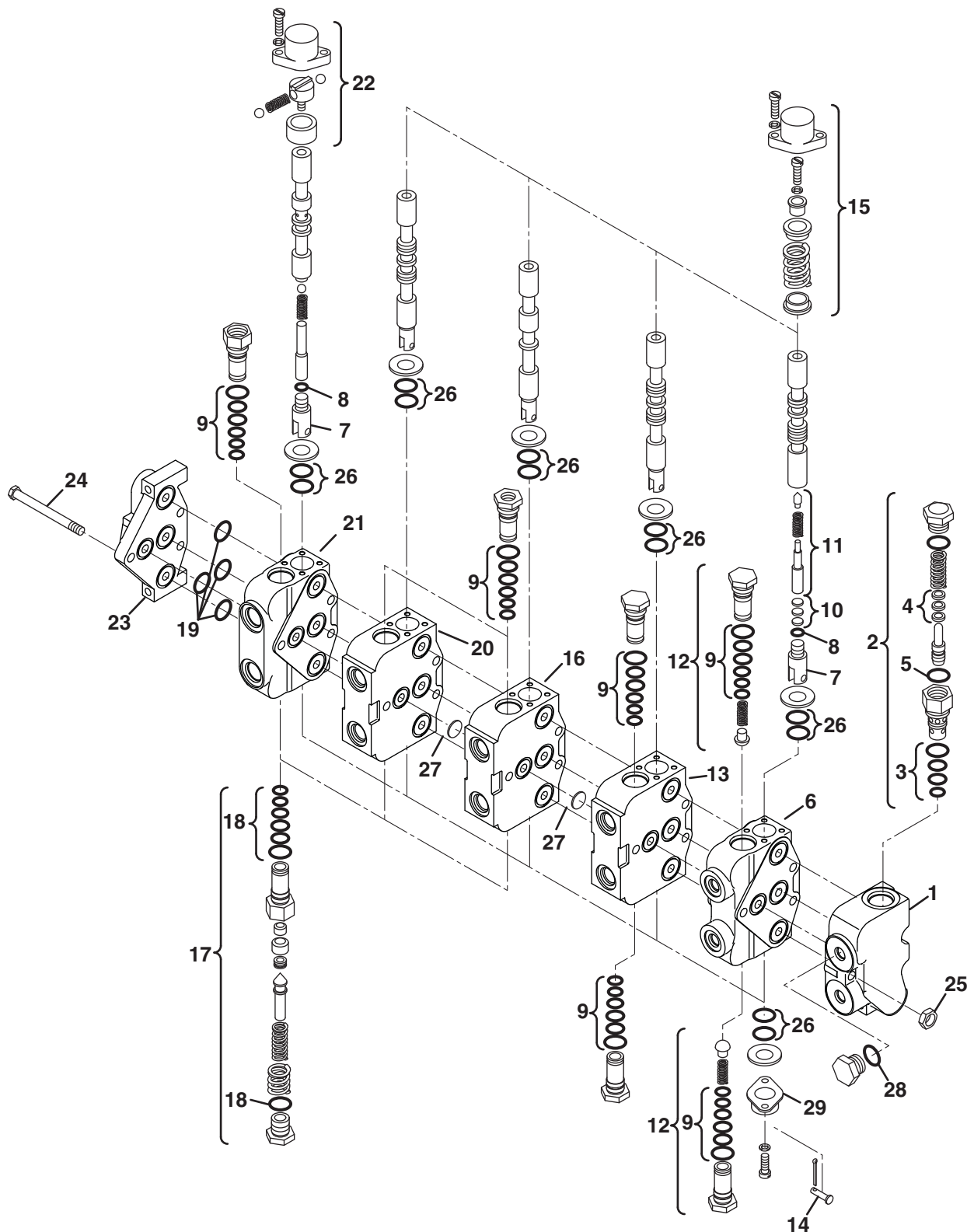
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3010293	1	Stop, Reel	
2	1002256	1	Bearing Housing	
3	336962	1	• Seal, Grease	
4	500534	1	• Bearing, Cup and Cone	
5	471214	1	• Grease Fitting, 1/4-28 Straight	
6	471240	1	• Vent Fitting	
7	400192	8	Screw, 5/16-18 x 1-1/2" Hex Head	
8	441814	2	Screw, 3/8-16 x 1-3/4" Square Head	
9	1000480	1	Bearing Housing	
	2000060	1	• Housing	
10	336962	1	• Seal, Grease	
11	500534	1	• Bearing, Cup and Cone	
12	471214	1	• Grease Fitting, 1/4-28 Straight	
13	471240	1	• Vent Fitting	
14	453011	4	Flat Washer, 5/16	
15	445795	10	Nut, 5/16-18 Spirallock Flange	
16	5003054	1	Reel, 7 Blade Left Hand	Used on 68588
16	5003053	1	Reel, 7 Blade Right Hand	Used on 68589
16	5001100	1	Reel, 9 Blade Left Hand	Used on 68599
16	5001099		Reel, 9 Blade Right Hand	Used on 68600
16	5001101		Reel, 11 Blade Left Hand	Used on 68621
16	5001102		Reel, 11 Blade Right Hand	Used on 68622
17	458013	1	Snap Ring, 3/4" Shaft External	
18	5002151	1	Spring, Compression	
19	304745	1	• Washer	
20	364900	1	Nut, 3/4-16 Reel	
21	163892	1	Seal	
22	367164	1	Spacer	
23	453011	1	Flat Washer, 3/8	
24	446142	1	Lockwasher, 3/8 Heavy	
25	400294	1	Screw, 3/8-24 x 1" Hex Head	
26	2000068	1	Backing, Bedknife	
27	See Chart	1	Bedknife	
28	4252470	AR	Screw, Bedknife (Pack of 100)	
29	315298	2	Bolt, 7/16-20 x 3/4" Wheel	
30	412503	4	Screw, 3/8-16 x 1-1/4" Square Head	
31	5002577	1	Frame, Reel	
32	4181863	1	Decal, Warning	
33	4182520	2	Decal, Danger	
34	400184	2	Screw, 5/16-18 x 3/4" Hex Head	

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34.1 5 Section Valve

Part No. 116536

Serial No. 62304 - 2018 and Up



GREENS KING IV DIESEL

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	—	Cover Plate	
2	2500568	1	Main Relief Cartridge	
3	2500567	1	• Relief Seal Kit	
4	2500795	AR	• Shim	0.020 Thick
5	549748	1	• O-Ring, Viton	
6	5000020	1	Section, 4 Way Complete	
7	549626	2	Clevis	
8	546711	2	O-Ring Clevis	
9	2500793	7	Check Plug Seal Kit	
10	2500794	AR	Shim, Washer	
11	2500538	1	Kit, Relief	
12	2500505	2	Check Plug Assembly	
13	5000021	1	Section, 4 Way Complete	
14	502751	1	Pin Kit	
	N/S		• Clevis Pin	
	N/S		• Cotter Pin	
15	548998	4	Positioner Spool	
16	5000022	1	Section, 4 Way Complete	
17	503151	3	Relief Assembly	
18	546709	3	• Seal Kit, Relief	
19	501352	6	Seal Kit, Midsection	
20	5000023	1	Section, 4 Way Complete	With Inlet
21	5000024	1	Section, 4 Way FF	
22	2500569	1	Positioner	
23	549000	1	Plate, Right Cover Complete	
24	2500570	1	Bolt, Hex Head Kit	Includes 3 Bolts
25	444744	3	Nut, 3/8-24 Centerlock	
26	4125776	5	Spool Seal Kit	
27	546712	2	Disc Seal	
28	339897	1	O-Ring, Plug	
29	4133016	5	Boot Heavy Duty Dust	

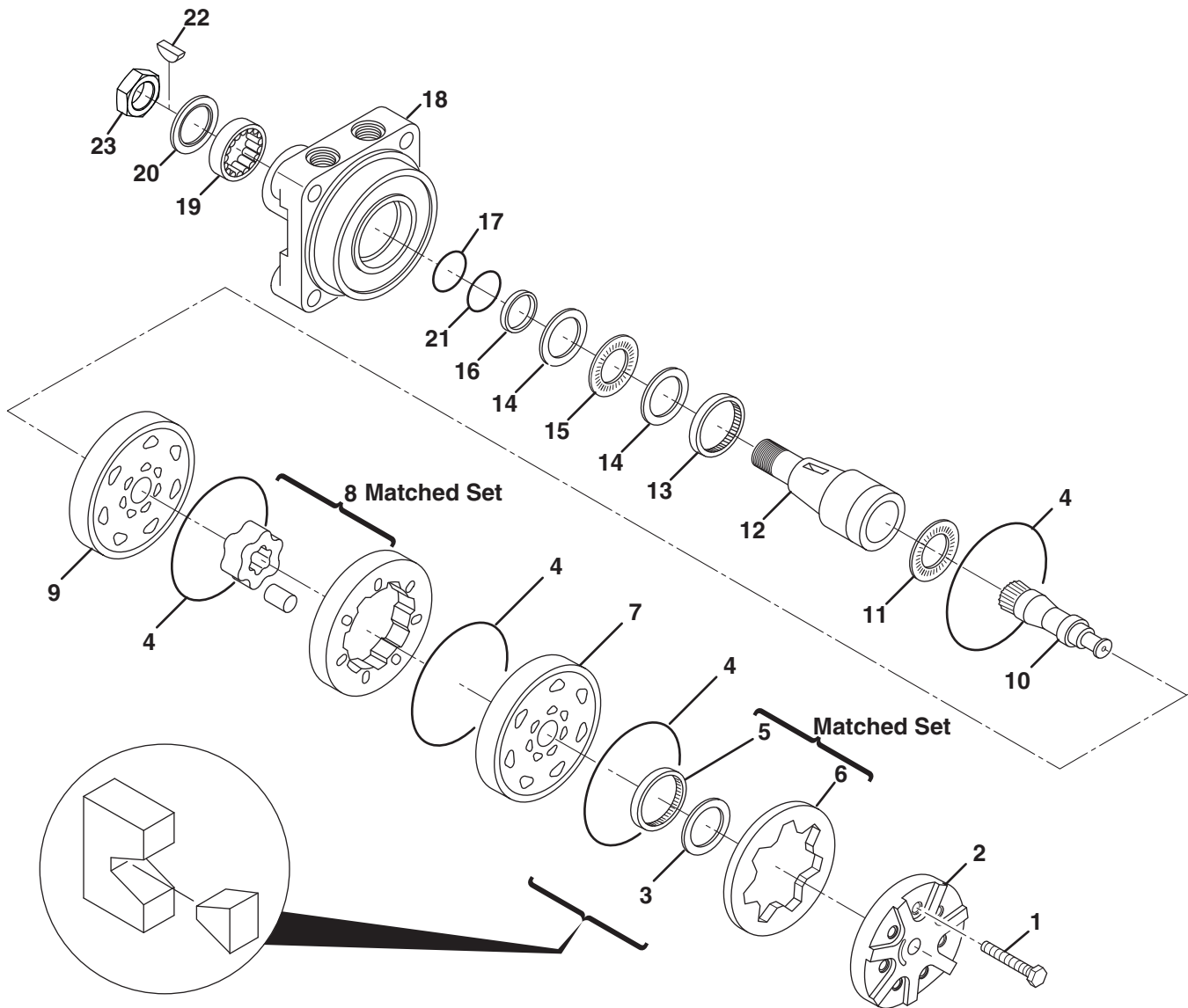
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GREENS KING IV DIESEL

Serial No. 62304 - 2018 and Up

35.1 Front Wheel Motor

Part Number 122675

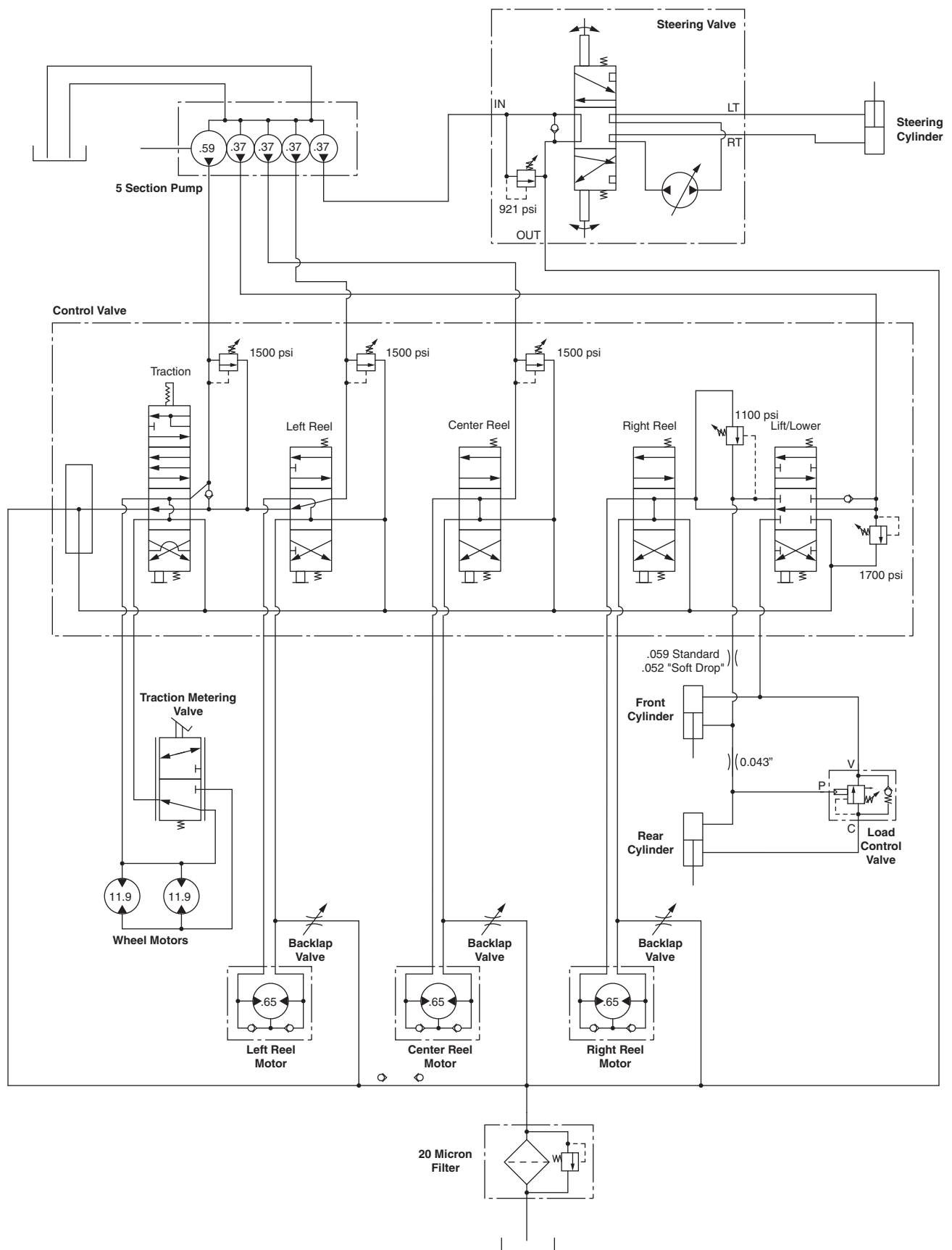


GREENS KING IV DIESEL

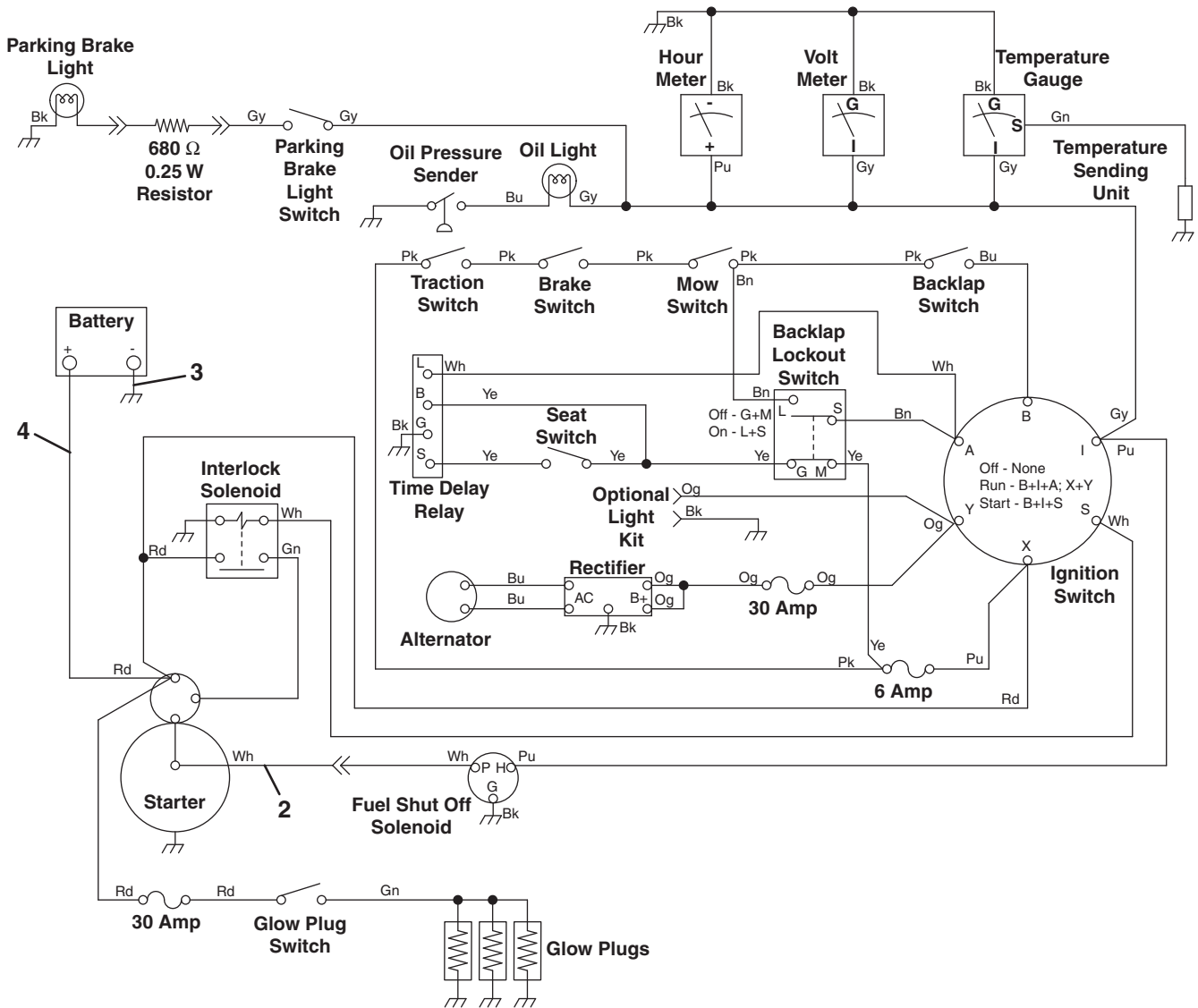
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	554513	7	Special Bolt	
2	N/S	1	End Cover	
3	★	1	Commutator Vespel Seal	Included in Seal Kit
4	★	5	Seal Ring	Included in Seal Kit
5	N/S	1	Commutator	
6	N/S	1	Commutator Ring	
7	N/S	1	Manifold	
8	N/S	1	Rotor Assembly	
9	N/S	1	Wear Plate	
10	N/S	1	Drive Link	
11	554514	1	Thrust Bearing	
12	554515	1	Coupling Shaft	
13	554516	1	Bearing	
14	554517	2	Thrust Washer	
15	554518	1	Thrust Bearing	
16	★	1	Shaft Seal	Included in Seal Kit
17	★	1	Backup Ring	Included in Seal Kit
18	N/S	1	Housing Assembly	
19	554519	1	Bearing	
20	★	1	Dirt and Water Seal	Included in Seal Kit
21	★	1	Backup Ring	Included in Seal Kit
22	463027	1	Key	
23	800778	2	Nut, 1-20 Hex	
	554753		Seal Kit	Includes Grease Pack

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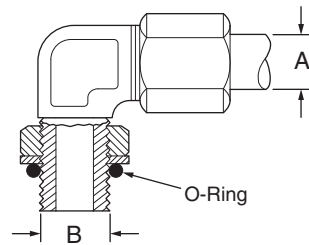
36.1 Hydraulic Schematic



37.1 Electrical Schematic



38.1 O-Ring Seal Chart



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

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Equipment from Jacobsen is built to exacting standards ensured by ISO 9001 and ISO 14001 registration at all of our manufacturing locations.

A worldwide dealer network and factory trained technicians backed by Genuine Jacobsen Parts provide reliable, high-quality product support.



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