



Parts & Maintenance Manual

Lightweight Fairway Mower with ROPS

- 67971 – LF 3400[™], Kubota V1505-E3B, 5 Gang, 2WD
- 67972 – LF 3400[™], Kubota V1505-E3B, 5 Gang, 4WD
- 67958 – LF 3800[™], Kubota V1505-E3B, 5 Gang, 2WD
- 67959 – LF 3800[™], Kubota V1505-E3B, 5 Gang, 4WD
- 67960 – LF 3400[™] Turbo, Kubota V1505-T-E3B, 5 Gang, 4WD
- 67961 – LF 3800[™] Turbo, Kubota V1505-T-E3B, 5 Gang, 4WD

 **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.

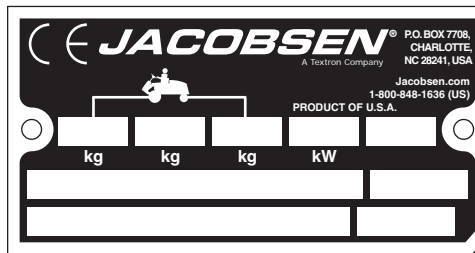
FOREWORD

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

Before you operate your machine, 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 equipment and maintain its maximum efficiency.

If additional information is needed, contact your Jacobsen Dealer.

The serial plate is located on the left rear frame rail. Jacobsen recommends you record these numbers below for easy reference.



Suggested Stocking Guide

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

To order any of the following material:

1. Write your full name and complete address on your order form.

2. Explain where and how to make shipment:

- UPS 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
	557759	Engine Oil Filter		556418	Charge Filter
	5000919	Element, Engine Air Filter		557772	Return Filter
	2500809	Element, Engine Fuel Filter		4131618	Ignition Key
	5002785	Engine Fan Belt		4123183	Headlight Bulb

Service Support Material

Qty.	Part No.	Description
	4179105	Safety & Operation Manual
	4179107	Parts & Maintenance
	5003094	Video, Operator Training
	4179104	Diesel Engine Parts Manual

Qty.	Part No.	Description
	4171661	Service Manual

Proposition 65 Warning

This product contains or emits chemicals known to 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 (Parts and Maintenance 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. Operate the machine up and down the face of slopes (vertically), not across the face (horizontally).
21. 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.
22. 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.
Accessory operator protective structures will continue to be offered for all equipment currently covered. This allows for the outfitting of any machines without previous ROPS installations or replacement of damaged structures.
23. Keep legs, arms, and body inside the seating compartment while the vehicle is in motion.
24. Disconnect battery and controller electrical connectors before performing any welding on this 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 brake lever is engaged, reel switch is off, and traction pedal is in Neutral. The system will stop the engine if the operator leaves the seat without engaging the parking brake or setting the reel switch off.

NEVER operate mower unless the Interlock System is working.



WARNING

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

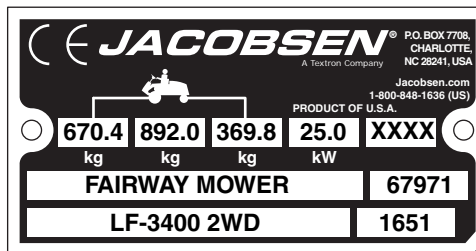
By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized 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

67971	LF 3400, 2WD with ROPS, uses 5 in. (127 mm) diameter reel
67972	LF 3400, 4WD with ROPS, uses 5 in. (127 mm) diameter reel
67958	LF 3800, 2WD with ROPS, uses 7 in. (178 mm) diameter reel
67959	LF 3800, 4WD with ROPS, uses 7 in. (178 mm) diameter reel
67960	LF 3400 Turbo, 4WD with ROPS, uses 5 in. (127 mm) diameter reel
67961	LF 3800 Turbo, 4WD with ROPS, uses 7 in. (178 mm) diameter reel
Serial Number	An identification plate, like the one shown, listing the serial number, is attached to the frame of the mower and is located on the operator's right just over the rear axle.



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

Product	EEC Sound Power	Vibration M/S ²	
		Arms	Body
67958	102 dba	2.65	.0406
67959	102 dba	2.65	.0406
67960	102 dba	2.65	.0406
67961	102 dba	2.65	.0406
67971	102 dba	2.65	.0406
67972	102 dba	2.65	.0406

2.2 V1505-E3B ENGINE

Make	Kubota
Model	V1505-E3B diesel, 4 cycle, liquid Cooled
Horsepower	35.5 Hp (26.4 Kw) @ 3000 rpm
Displacement	91.4 in. ³ (1498 cm ³)
Torque	73 ft. lbs. (99 Nm) @ 2100 rpm
Fuel:	
Type	#2, low or ultra-low sulfur, diesel
Rating	Min. cetane rating 45
Capacity	17 U.S. gal. (64.3 liters)

Governor Setting:	
High Idle	3150 rpm
Low Idle	1200 rpm
Lubrication:	
Capacity	5.5 U.S. qts. (5.2 liter)
Type	SAE 10W30
API Classification	CD/CE
Air Filter	Donaldson, dry type with evacuator valve and service indicator
Alternator	40 Amp

2.3 V1505-T-E3B ENGINE

Make	Kubota
Model	V-1505T-E3B diesel, 4 cycle, liquid cooled
Horsepower	44.2 Hp (33.0 Kw) @ 3000 rpm
Displacement	91.4 in. ³ (1498 cm ³)
Torque	93 ft. lbs. (1357 Nm)
Fuel:	
Type	#2, low or ultra-low sulfur, diesel
Rating	Min. cetane rating 45
Capacity	17 U.S. gal. (64.3 liters)

Governor Setting:	
High Idle	3150 rpm
Low Idle	1200 rpm
Lubrication:	
Capacity	5.5 U.S. qts. (5.2 liter)
Type	SAE 10W30
API Classification	CD/CE
Air Filter	Donaldson, dry type with evacuator valve and service indicator
Alternator	40 Amp

2.4 MOWER

<p>Tires:</p> <p>Front26.5 x 14 - 12: (4 ply)</p> <p>Rear20 x 10 - 8: (2 ply)</p> <p>Pressure10-12 psi (69 - 83 kPa)</p> <p>Battery:</p> <p>Type12V, 600 Cold Cranking Amps</p> <p>GroupBCI 24</p> <p>Brakes:</p> <p>ServiceDynamic braking through traction circuit.</p> <p>Parking9.25 in. (235 mm) front disc</p>	<p>Speed:</p> <p>Mow0 - 7 mph (0 - 11 kph)</p> <p>Transport - 2 WD.....0 - 12 mph (0 -19 kph)</p> <p>Reverse0 - 5 mph (0 - 8 kph)</p> <p>Production.....5.7 acres/hr. @ 7 mph</p> <p>Hydraulic System:</p> <p>Capacity14 U.S. gal. (53 liter)</p> <p>Fluid Type.....10W30 or Greens Care 68</p> <p>Cooling.....Oil Cooler</p> <p>Charge Filter10 micron</p> <p>Return Line Filter10 micron</p> <p>SteeringHydrostatic power steering</p>
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2.5 WEIGHTS AND DIMENSIONS

LF 3400, LF 3400 Turbo

Dimensions:	Inches	(mm)
Length - With Grass Catchers.....	120	(3048)
Height - Top of Steering Wheel	58.7	(1491)
Width - Mow	115	(2921)
Width - Transport.....	87	(2209)

Weights (Mower with reels):	Lbs.	(kg)
67971 Overall (less operator).....	2571	(1166)
67972 Overall (less operator).....	2771	(1257)
67960 Overall (less operator).....	2771	(1257)

LF 3800, LF 3800 Turbo

Dimensions:	Inches	(mm)
Length - With Grass Catchers.....	121	(3073)
Height - Top of Steering Wheel	58.7	(1491)
Width - Mow	115	(2921)
Width - Transport.....	87	(2209)

Weights (Mower with reels):	Lbs.	(kg)
67958 Overall (less operator).....	3056	(1386)
67959 Overall (less operator).....	3256	(1477)
67961 Overall (less operator).....	3256	(1477)

2.6 LF 3400, LF3400 TURBO CUTTING UNITS

<p>Overall cutting Width:</p> <p>5 Gang.....100 in. (2.54 m)</p> <p>Number of reels:</p> <p>5 Gang.....Five - three front, two rear</p>	<p>Reel Diameter5 in. (127 mm)</p> <p>Reel Width22 in. (559 mm)</p> <p>Number of Blades/Reel...7</p> <p>Height of Cut.....3/8 to 3/4 in. (9.5 to 19 mm)</p> <p>Frequency of Cut.....0.074 in. / 1 mph (1.88 mm / 1 kph)</p>
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2.7 LF 3800, LF 3800 TURBO CUTTING UNITS

<p>Overall cutting Width:</p> <p>5 Gang.....100 in. (2.54 m)</p> <p>Number of reels:</p> <p>5 Gang.....Five - three front, two rear.</p> <p>Reel Diameter7 in. (178 mm)</p> <p>Reel Width.....22 in. (559 mm)</p> <p>Number of Blades/Reel ...9 or 11</p> <p>Height of Cut3/8 to 1-1/8 in. (9.5 to 29 mm)</p> <p>Frequency of Cut :</p> <p>9 Blade Reel.....0.079 in. / 1 mph (2.02 mm / 1 kph)</p>	<p>11 Blade Reel0.065 in. / 1 mph (1.65 mm / 1 kph)</p>
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2 SPECIFICATIONS

2.8 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-KONFORMITĀ • DEKLARACJA ZGODNOŚCI •
DECLARAÇÃO DE CONFORMIDADE • DECLARAȚIE DE CONFORMITATE • VYHLÁSENIE 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 • Tootja äranimi ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmenname und vollständige Adresse des Herstellers • Εταιρεία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzhēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerčjali u indirizz sħiħ tal-fabbrikant • 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 kods • Kodicí tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod	67971 67972 67958 67959 67960 67961
Machine Name • Наименование на машината • Název stroje • Maskinavn • 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	LF 3400 2WD LF 3400 4WD LF 3800 2WD LF 3800 4WD LF 3400 Turbo 4WD LF 3800 Turbo 4WD
Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyypimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenie • Namen stroja • Descripción • Beteckning	Lawnmower, Article 12, Item 32
Serial Number • Сериал номер • Sériové číslo • Seriennummer • Seriennummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sērijas numurs • Serijos numeris • Numru Serjali • Numer seryjny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Seriennummer	6797101651-6797102500 6797201651-6797202500 6795801651-6795802500 6795901651-6795902500 6796001651-6796002500 6796101651-6796102500
Engine • Двигател • Motor • Motor • Motor • Mootor • Moottori • Moteur • Motor • Μηχανή • Modulnėv • Motore • Dzinējs • Variklis • Sahha Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Motor	Kubota V1505-E3B Diesel Kubota V1505-E3B Diesel Kubota V1505-E3B Diesel Kubota V1505-E3B Diesel Kubota V1505-T-E3B Diesel Kubota V1505-T-E3B Diesel
Net Installed Power • Нетна инсталирана мощност • Čistý inštalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó beépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Wisa' tal-Qtugh • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt	26,5 kW @ 3000 RPM 26,5 kW @ 3000 RPM 26,5 kW @ 3000 RPM 26,5 kW @ 3000 RPM 33 kW @ 3000 RPM 33 kW @ 3000 RPM
Cutting Width • Широчина на рязане • Šírka řezu • Skærebredde • Maaibreedte • Löikelaius • Leikkuleveys • Largeur de coupe • Schnittbreite • Μήκος μισιπέδας • Vágási szélesség • Larghezza di taglio • Griėšanas platumis • Pjovimo plotis • Tikkonforma mad-Direttivi • Szerokość ciecica • Largura de Corte • Lājiņmea de tāiere • Širka zāberu • Širina reza • Anchura de corte • Klippbredd	254 cm
Conforms to Directives • В съответствие с директивите • Spñiņuje podmĩny smērnĩc • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθήστε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atiņinka direktīvu reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpre as Directivas • Respectă Directivile • Je v sūlāde so smernicām • Skladnost z direktivami • Cumpre con las Directivas • Uppfyller direktiv	2004/108/EC 2006/42/EC 2004/14/EC, 2005/88/EC 2006/66/EC
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmĩnek • Overensstemmelsesvurdering • 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 • Ištautuotas garso stiprumo lūgis • Livell tal-Qawwa tal-Foss Iggarranti • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hladina akustiskāho výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå	101 dB(A) LWA
Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garanteertud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garanterter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotais garso stiprumo lūgis • Livell tal-Qawwa tal-Foss Iggarranti • Moc akustyczna gwarantowana • Nivel sonoro garantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå	102 dB(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 arviointimenetely (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 (nível 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

<p>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 Isonsa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/ΕΚ • 2000/14/ΕΚ – egysült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK registrētā organizācija • JK notifikatiosios īstaigos 2000/14/EC • Korp Notifikat tar-Renju Unit ghal 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 priglášeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien</p>	<p>Number: 1088 Sound Research Laboratories Limited Holbrook House, Little Walsingham Sudbury, Suffolk CO10 0TH</p>
<p>Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurer • Műratase operátori kõrvas • Melutaso käyttöajan korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επίπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Trokšņa līmenis pie operatora auss • Dirbančiojo su mašina patiriamio triukšmo lygis • Livell tal-Hoss fil-Widna tal-Operatur • Dopuszczalny poziom hałasu dla operatora • Nivel sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiacu na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivá vid förarens öra</p>	<p>82 dB(a) Leq (2006/42/EC)</p>
<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 • Standards armonizzati uzati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni 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 specifikacijas • Panaudoti techniniai standartai ir techninė informacija • Standards u specifikacijonijiet techniķi uzati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice și specificațiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används</p>	<p>B71.4 ISO 2631-1 SAE J1194</p>
<p>The place and date of the declaration • Место 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 • Local și data declarației • Miesto a dátum vyhlásenia • 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 March 26th, 2010</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 ta-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer</p>	<p>4179107 Rev B</p>

2 SPECIFICATIONS

2.9 ACCESSORIES

Refer to the Parts Catalog and contact your area Jacobsen Dealer for a complete listing of accessories and attachments.



CAUTION

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

MOWER

Orange Touch-up Paint (12 oz. spray)	554598
2-Post ROPS with Seat Belt (SAE J1194)	67844
Canopy / Sunshade.....	68095
Transport Lock Bars	2812147
Hood Locking Latch	1004049
Cruise Control	67846
Grass Catcher	67891
4WD Conversion Kit (Field Installed)	67860

REELS

LF 3400, LF 3400 Turbo

7 Blade, 5in. Diameter Reel - LH	67877
7 Blade, 5 in. Diameter Reel - RH	67879
Vertical Mower -LH	67894
Vertical Mower -RH.....	67895
Rear Throw Shields	67918
Front Grooved Roller Scrapers	67779
Rear Roller Scrapers	67778
High Cut Kit - 1-3/16 in.	67917
Turfgroomer - LH	67913
Turfgroomer - RH	67914
Powered Rear Roller Cleaning Brush.....	68643

LF 3800, LF 3800 Turbo

9 Blade, 7 in.diameter Reel	67858
11 Blade, 7 in. Diameter Reel	67848
Vertical Mower Assembly, 7 in. Diameter	67854
Front Grooved Roller Scrapers	67831
Powered Rear Roller Cleaning Brush	67832
RH Catcher Mounting Hardware.....	67919
LH Catcher Mounting Hooks.....	67920
Turf Groomer - LH.....	67954
Turf Groomer - RH	67973

2.10 SUPPORT LITERATURE

Contact your Jacobsen Dealer for a complete listing of literature.

Safety & Operation Manual	4179105
Parts & Maintenance.....	4179107
Engine Parts Catalog	4179104
Operator Training Video ..	5003094
Service & Repair Manual	4171661

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. Do not wear jewelry or loose fitting clothing when making adjustments or repairs.

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

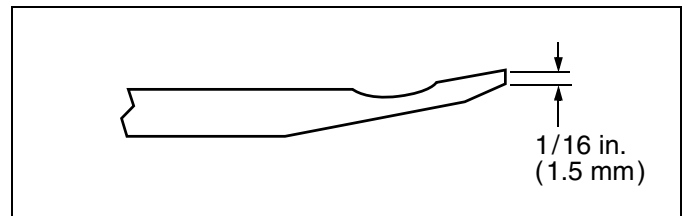


Figure 3A

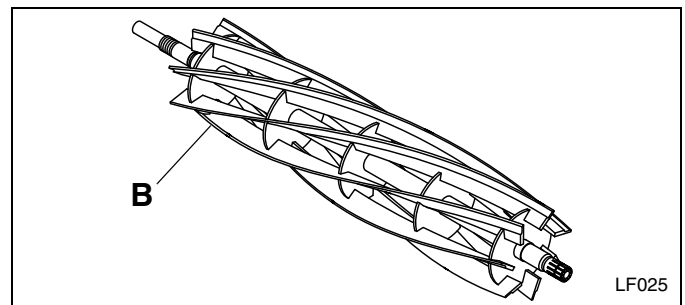


Figure 3B

3 ADJUSTMENTS

3.3 BEDKNIFE ADJUSTMENT

Read **Section 3.2** before making the adjustment.



CAUTION

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

Start adjustment at leading end of reel, followed by the trailing end. The leading end of the reel blade is that end which passes over the bedknife first during normal reel rotation. (**B-Figure 3B**)

1. Set leading edge of reel. On 7 in. reels use adjuster (**A**), to set the bedknife-to-reel gap. Screw adjuster down (clockwise) to reduce gap.

On 5 in. reels use adjusters (**C, D**) to adjust gap. Loosen bottom screw and turn top screw down to reduce gap.
2. Slide a feeler gauge or shim stock - 0.001 in. to 0.003 in. (0.025 to 0.076 mm) - between the reel blade and the bedknife (**B**). Do not turn the reel.
3. Adjust the trailing end of the reel in the same manner then recheck the adjustment at the leading end.
4. 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.

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

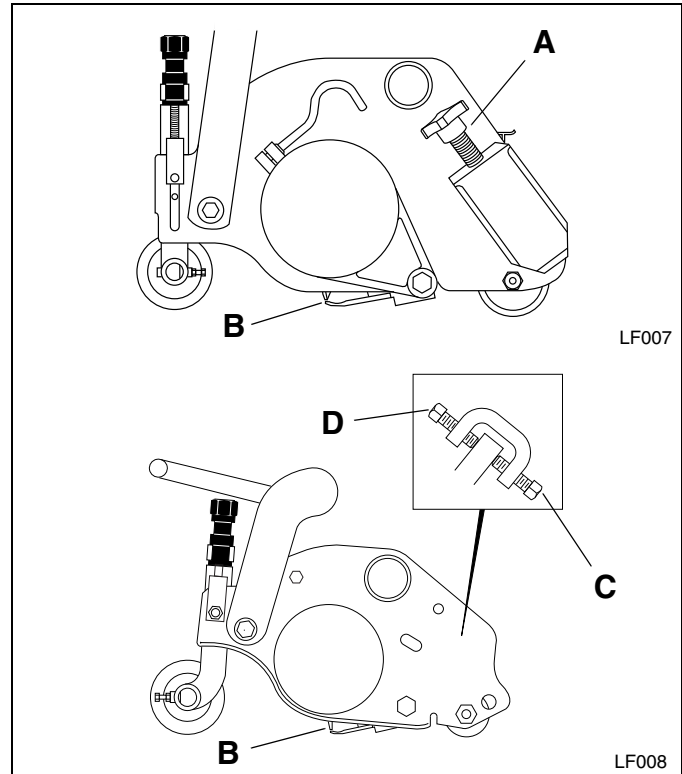


Figure 3C

3.4 CUTTING HEIGHT

Note: Always make the reel-to-bedknife adjustment before adjusting height of cut, **Section 3.2 and 3.3**.

1. Raise mowers to transport position, engage the parking brake, stop engine, and remove key from ignition switch.
2. Set desired cutting height on the gauge (**I**).
 - a. Measure distance between underside of screw head and gauge block surface (**J**).
 - b. Adjust screw (**F**) to obtain desired height then tighten the wing nut.
3. Loosen the hardware on the front roller brackets (**E**) just enough to allow the adjuster to raise or lower the 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 hand knob (**H**) to close the gap between the screwhead and bedknife.

Tighten locknut (**E**). Repeat Steps 4 and 5 on opposite end. Complete adjustment to one end before adjusting opposite end.

6. Tighten hardware and recheck each end.

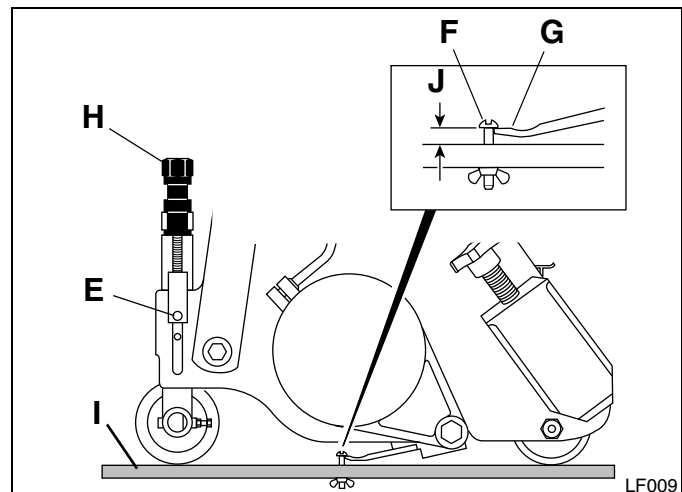


Figure 3D

3.5 FLASH ATTACH

Installing Cutting units

1. Place each cutting unit in front of its respective lift arm. Raise lift arm and position cutting unit so that yoke (T) is in line with swivel housing (S). Carefully lower arm onto yoke. Insert pin (K) through hole in yoke, fasten retaining clip (L), and install cap (M).
2. Assemble motors (N), with hoses attached, to the cutting units. Clean motor splines and coupling. Apply Moly 2 EP grease to the female spline on reel. Thoroughly clean the motor mounting surface. Slide motor into bearing housing. On 5 in. reels lock motor in place by inserting two motor clips (O), with loops facing center of motor, into mounting pins (P). On 7 in. reels hand tighten key (Q) on bearing housing.
3. Raise reels and install down pressure spring pins (V, Figure 3F). If cutting height has not changed, set pins in same position they were in when reels were removed.

Removing Cutting Units

1. Lower reels to the ground and remove down pressure spring pins (V, Figure 3F). Make note of where springs are set.
2. On 5 in. reels, remove motor clips (O). On 7 in. reels loosen key (Q) on motor housing. Pull motor straight out from cutting unit.
3. Carefully place motor and its hoses away from the cutting unit. To prevent contamination and damage to internal components cover or cap off bearing housing cavity (R).
4. Remove cap (M) on lift arm. Unfasten retaining clip (L) from pin (K) and remove pin.

5. Carefully raise arm until cutting unit can be removed.

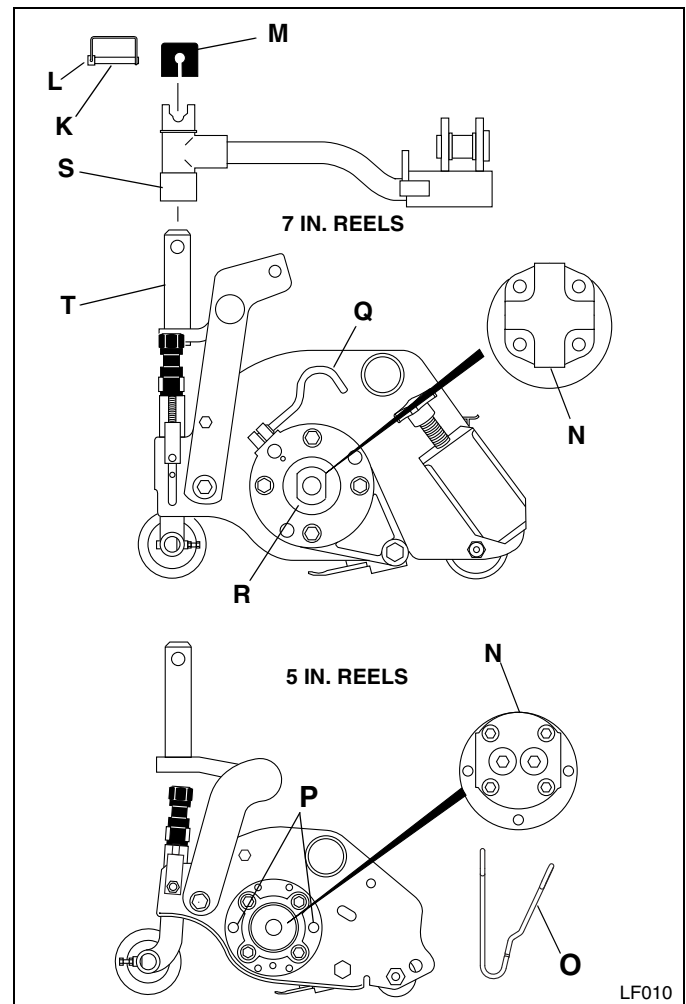


Figure 3E

3.6 DOWN PRESSURE

Each reel is equipped with a down pressure spring. Down pressure improves cutting quality by ensuring consistent contact between the reel and ground. Check and adjust down pressure any time cutting height has been changed or to optimize the cut for best performance.

1. With reels raised, place pin (V) in 4th hole from ball joint. Lower reels onto a flat surface before measuring down pressure.
2. Initially set distance between ball joint center and rod cross pin center to 8-15/16 in. \pm 1/16 in. (227 mm \pm 2 mm). To adjust length, loosen lock nut (W) and turn rod (U) in or out of ball joint.
3. Measure length of spring as shown on all 5 reels. Record the shortest spring dimension and set the other springs by adjusting rods (U) to that dimension \pm 1/16

in. (2 mm). The rod cross pin must be horizontal, then tighten locknut (W).

4. To adjust down pressure, move pin one hole towards spring to increase pressure, or one hole away from spring to decrease pressure on rear roller.

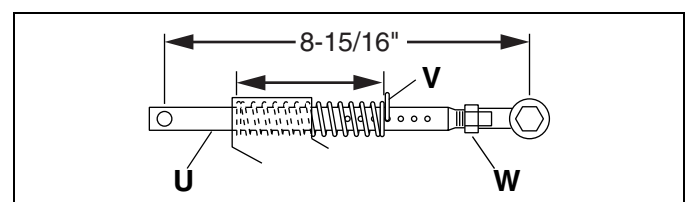


Figure 3F

3 ADJUSTMENTS

3.7 MOW SPEED

Cutting quality is better at speeds well below the transport speed of the mower. An initial mow speed of five to six mph is set at the factory and should be satisfactory for most cutting conditions. Local turf conditions however may respond better to a different speed.

To set mow speed, loosen jam nut **(A)**, and adjust stop screw up to reduce speed, down to increase speed. Tighten nut to hold adjustment in place.

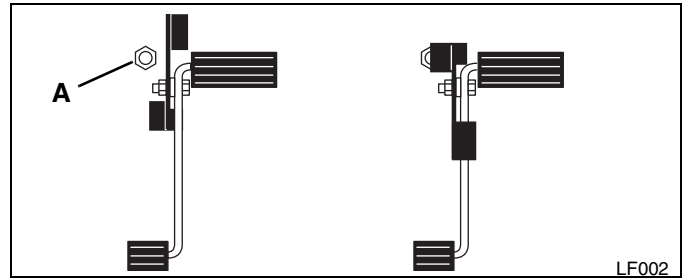


Figure 3G

3.8 BELT

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

Adjust alternator pulley so belt deflects 1/4 to 5/16 in. (6 -8 mm) with a 20 lb. push at midpoint between pulleys. See engine manual.

If tension is incorrect, loosen alternator mounting bolts **(B)** and adjust alternator until proper belt tension is achieved.

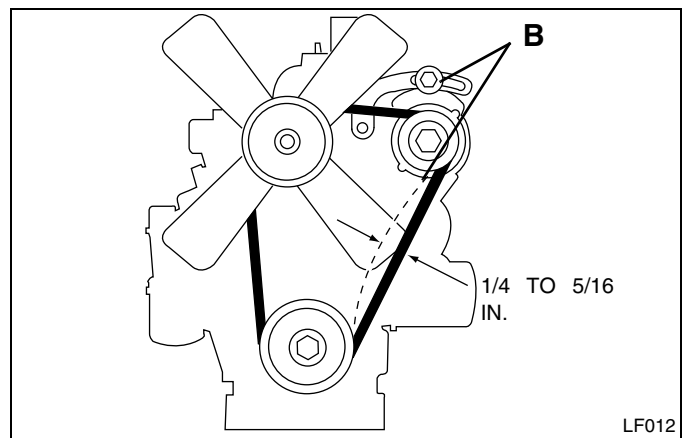


Figure 3H

3.9 BRAKES

Adjust brakes after replacing or servicing brake assembly, or if pedal travel becomes excessive.

1. When installing new brake pads, burnish pads by driving mower at mowing speed while applying a slight pressure on brake pedal for about 5 seconds. Release and repeat five times before making the final adjustment.
2. Fully loosen adjusting nut **(E)**.
3. Disconnect brake return spring **(See Item 14, Illustration 7.1)** at caliper.
4. By hand, pull cable behind adjusting nut **(C)** away from pedal until brake pads just contact brake disk. Thread adjusting nut **(C)** up until it contacts the mounting plate. Tighten nut **(E)** to lock adjustment in place. Torque nut **(E)** to 20 ft lb (27 Nm). Do not overtorque or turn cable.
5. Connect brake return spring. Repeat for second cable.
6. If brakes wear beyond point where they can be adjusted by the cable, move brake bracket into second set of holes provided **(D)**, and complete adjustment procedure.

7. Start mower and check operation of brakes. Park mower on an incline (approx. 16.7° slope) and engage parking brake. Brake must prevent mower from rolling. Adjust nut **(C)** as required.

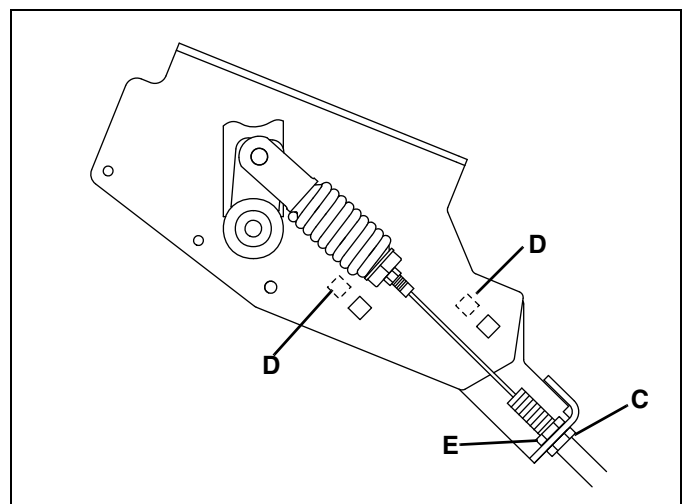


Figure 3I

3.10 NEUTRAL ADJUSTMENT

Neutral adjustment can only be made at the drive pump.

The neutral adjustment is preset at the factory on all new mowers and replacement pumps. Further adjustment is not required unless the pump has been disassembled for repair or service.

To adjust neutral:

1. Disconnect traction pedal linkage from pump.
2. Place mower securely on jack stands so **All** wheels are raised off ground.
3. Check that tow valve (**H**) is closed.
4. Engage parking brake and set mow switch to neutral. Make sure neutral switch at traction pedal is closed. (Figure 3K - **M**). Distance between the switch and metal pointer "M" must be between 1/16 and 1/8 in. (1.5 and 3 mm).
5. Loosen screws (**G**) holding pump lever bracket just enough so it can be moved. Start engine and observe wheels. Adjust bracket (**F**) in slotted holes until wheels do not turn. Turn off engine and tighten bracket in place.

6. Connect traction linkage. When connecting linkage at traction pedal, make sure pointer on traction pedal bracket is centered over neutral switch (**M** - Figure 3K).
7. Start engine and check operation of traction pedal. Wheels must not turn when pedal returns to neutral and lamp 5 on controller should light, see **Section 5.2**.

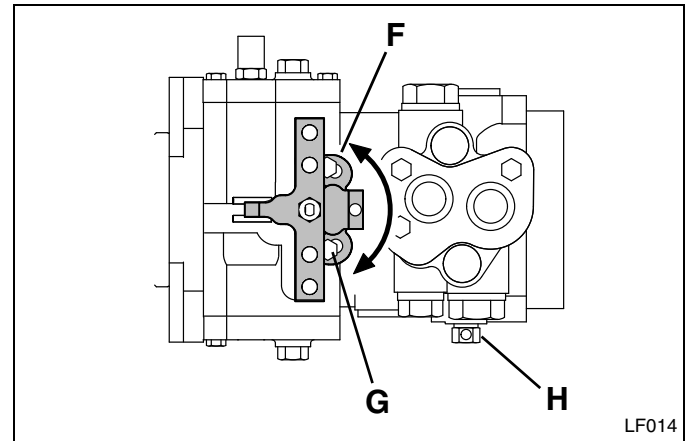


Figure 3J

3.11 FORWARD / REVERSE SPEED

Forward and reverse speeds are adjusted at the traction pedal. Set forward speed before adjusting reverse.

To adjust forward speed:

1. Make sure drive pump has been set to neutral and engine throttle is adjusted correctly.
2. Start engine and check forward travel speed with engine at full throttle and mower in two wheel drive (2WD). Forward transport speed should measure 12 mph (19 kph).
3. Stop engine. To adjust speed, disconnect eye bolt (**K**) from pedal and loosen jam nut. Turn eye bolt in to reduce speed, out to increase speed. Tighten jam nut to hold adjustment in place and connect eye bolt.
4. With traction pedal in neutral, check position of neutral switch (**J**). Adjust switch up or down so pointer (**M**) on traction pedal bracket is centered over it. When adjusted correctly lamp 5 on controller will light when ignition switch is turned to on.
5. Start engine and check speed. Repeat procedure until 12 mph (19 kph) forward transport speed is attained.

To adjust reverse speed:

1. Set forward speed.

2. Start engine and check reverse travel speed with engine at full throttle. Reverse speed should measure 4-5 mph (6-8 kph).
3. Stop engine. To adjust speed, loosen nut on reverse travel stop bolt (**L**). Slide bolt forward in slotted hole to increase speed, back to reduce speed. Tighten nut to hold adjustment in place.
4. Start engine and check speed. Repeat procedure until 4-5 mph (6-8 kph) reverse speed is attained.

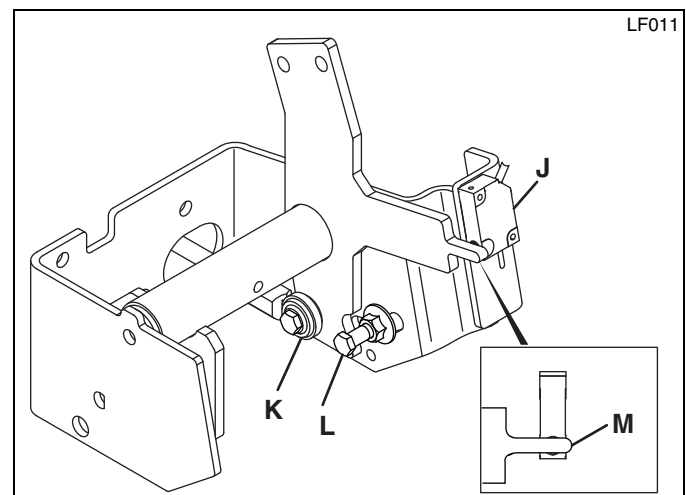


Figure 3K

3 ADJUSTMENTS

3.12 FRONT REEL LIMIT SWITCH

The front left and right lift arms are equipped with proximity switches, which signal the controller to turn off the reels. The switches are mounted to the mower frame directly behind the lift arms. If reels continue to run when lifted, or do not run when lowered, inspect switch. Adjust or replace switch as needed.

To adjust switch:

1. Park mower on a flat, level surface.
2. Remove reel from lift arm.
3. Turn ignition key to the RUN position to activate controller. Do not run reels or start engine.
4. Adjust switch as required to obtain air gap between switch and arm of 1/8 to 3/16 in. (3 to 5 mm).
5. Lift arm manually until it is at an angle of 17°.
6. With lift arm at 17°, adjust switch **(I)** up or down, until switch contacts close. Secure switch in this position.
7. Repeat procedure for lift arm on opposite side.

8. Start engine and check that reels turn off when raised.

NOTICE

The reed switches set the point where the reels turn off, not how high they will raise. The reels will actually raise to a position slightly above 17°.

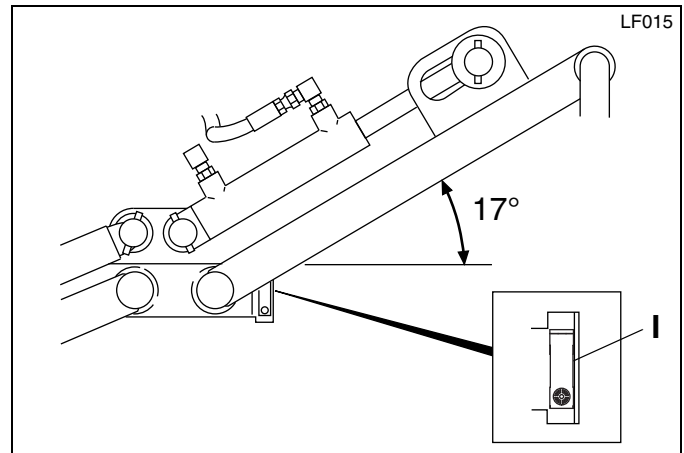


Figure 3L

3.13 STEERING TOE-IN

1. Turn wheels to straight ahead position.
2. Loosen jam nuts **(J)** on both sides of tie rod **(M)**.
3. Turn tie rod **(M)** to provide proper toe-in. Toe-in must not exceed +1/16 in. (1.5 mm) **(K)**. Retighten jam nuts.
4. After adjusting tie rod, adjust steering cylinder by threading the rod **(N)** in or out of ball joint so spindle arm **(L)** clears the stop on the axle by 1/32 to 3/32 in. (0.8 to 2 mm) **(O)** when cylinder is fully extended.

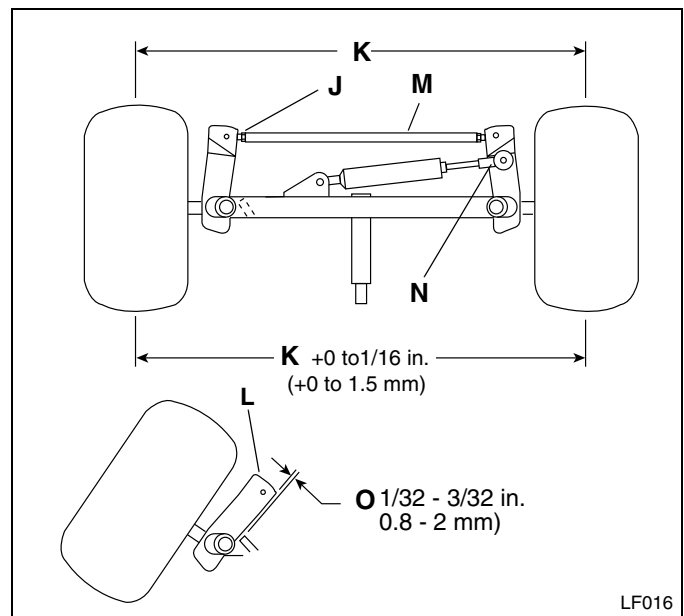






Figure 3M





3.14 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				
		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
		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. Do not wear jewelry or loose fitting clothing when making adjustments or repairs.
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 replacement engine manuals contact the engine manufacturer.

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

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 6.2** and Engine Manual for specific maintenance intervals.

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

NOTICE

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.

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 100 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

4.4 AIR FILTER

Check the service indicator daily. If red band appears in the window **(B)** 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, 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 **(A)**.

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.

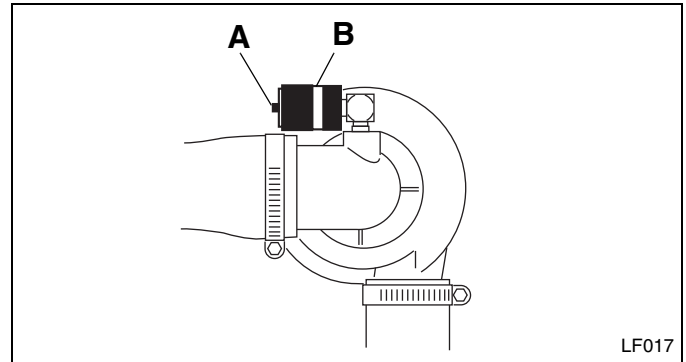



Figure 4A

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
<p>Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.</p> <p>Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.</p> <p>Do not spill fuel and clean spilled fuel immediately.</p> <p>Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.</p> <p>Be sure to reinstall and tighten fuel cap securely.</p>

- Fill the fuel tank to within 1 in. (25 mm) below the filler neck.
- Use clean, fresh, #2, low or ultra-low sulfur diesel fuel. Minimum Cetane Rating 45. Refer to Engine Manual for additional information.
- Check fuel lines and clamps every 50 hours. Replace fuel lines and clamps at the first sign of damage.
- Store fuel according to local, state, or federal ordinances and recommendations from your fuel supplier.
- Never overfill or allow the tank to become empty.

4.6 FUEL SYSTEM

Refer to **Section 6.2** 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.

Bleed the fuel system after the fuel filter and lines have been removed, or the fuel tank has become empty. See Engine Manual.

To change fuel filter:

1. Close fuel valve on tank and remove and discard the existing filter.
2. Apply a light coat of oil to the gasket and hand tighten new filter.
3. Fill fuel tank. Open fuel valve on tank and bleed the filter. See Engine Manual.

4 MAINTENANCE

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.

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.

Disconnect battery cables and controller connections before performing welding operations on mower.

Verify battery polarity before connecting or disconnecting the battery cables.

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

WARNING

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

4.8 JUMP STARTING

Before attempting to "jump start" the mower, check the condition of the discharged battery. **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 vehicle with 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 mower with 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.

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.

1. Refer to **Section 4.7**. Read the Battery and Charger's manual for specific instructions.

4.10 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.

4.11 HYDRAULIC HOSES


WARNING

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

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

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

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

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

4.12 HYDRAULIC OIL

Refer to **Section 6.2** for specific maintenance intervals.

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

Always replace both hydraulic filters when oil filter light stays on or when changing oil.

To change hydraulic oil:

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
2. Remove drain plug from bottom of tank.

3. After oil has drained install drain plug and fill with Jacobsen Hydraulic oil.
4. Purge air from system.
 - a. To prevent reels from overheating, disconnect motors from reels.
 - b. Operate all mower functions for about 5 minutes to purge air out of the system and stabilize the oil level. During this time, the oil level alarm may sound.
 - c. Once the level has stabilized and the air is purged, fill the tank to the full mark on dipstick. Start engine and check that oil alarm remains off.

4 MAINTENANCE

4.13 HYDRAULIC FILTERS

The hydraulic system is protected by two 10 micron filters, a charge filter **(B)** and return line filter **(A)**. Flow through the filters is monitored during operation. When pressure drop across the filters is too high the hydraulic oil filter warning light will come on. To ensure continued protection to the hydraulic system, replace both filters as soon as possible after light comes on.

NOTICE

During cold weather the warning light may come on until oil has warmed up to operating temperature. Wait until oil has warmed up and light goes out before operating mower.

To replace hydraulic filters:

1. Remove the old filters.
2. Install new filters. 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.
4. Check hydraulic oil level in reservoir and fill to full mark on dipstick.

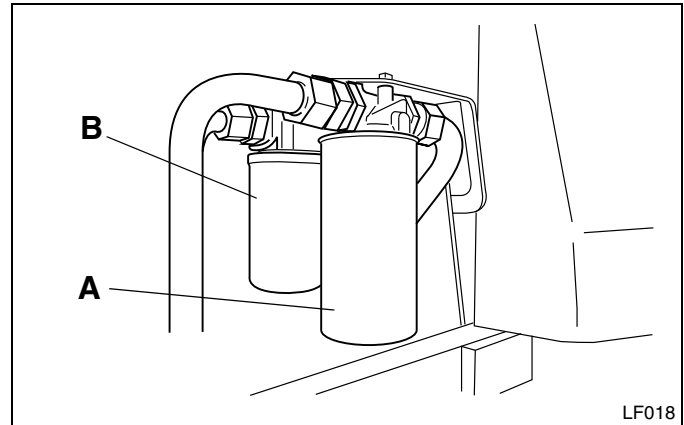


Figure 4B

4.14 ELECTRICAL SYSTEM

CAUTION

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

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

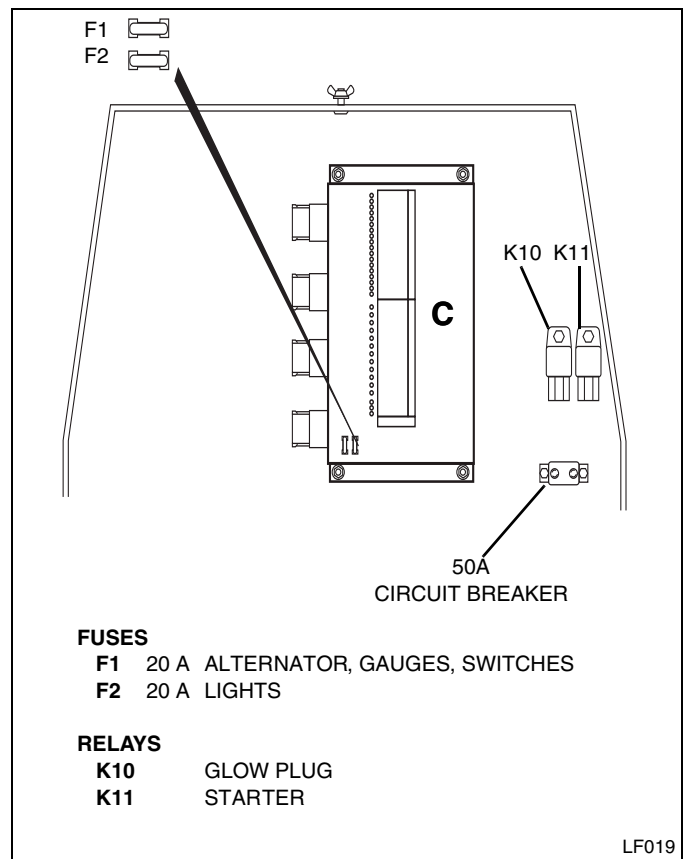
1. Make certain all terminals and connections are clean and properly secured.
2. Check the interlock system, fuses, and circuit breakers regularly.

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

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

The electrical system is monitored and controlled by the electronic controller **(C)** located behind the operator's area. The controller is equipped with two banks of LED's which can be used when troubleshooting the electrical system, see **Section 5.2**.

Circuits are protected by a circuit breaker, fuses, and relays mounted next to the controller.



FUSES

- F1 20 A ALTERNATOR, GAUGES, SWITCHES
- F2 20 A LIGHTS

RELAYS

- K10 GLOW PLUG
- K11 STARTER

Figure 4C

4.15 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.

4.16 ROLL OVER PROTECTIVE STRUCTURE (ROPS)


A Roll Over Protective Structure (ROPS), designed for this mower, is available as an optional accessory. If your mower is equipped with this device, 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 structure.

4.17 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
2. Check pressure every 50 hours or once a month. Use an accurate, low pressure tire gauge.
3. Keep tires inflated to 10-12 psi (69 -87 kPa).

 **CAUTION**

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

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 and hydraulic oil cooler air passages clean. Use compressed air (30 psi maximum) to clean the fins.

1. Use a blow gun to clean the radiator and oil cooler fins.

NOTICE

A sliding panel located under the frame can be loosened and pulled back to allow dirt and debris to fall through frame.

2. Check and tighten the fan belt. Replace clamps and hoses every two years.
3. If you have to add coolant more than once a month, or add more than one quart at a time, have a Jacobsen Dealer check the cooling system.

1. The seat, the seat belt, mounting hardware, and any accessories within the ROPS, should be inspected regularly and all damaged parts replaced 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 Catalog.

4 MAINTENANCE

4.18 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 insure full contact between mounting surface of wheel and hub or brake drum.
3. Finger tighten all hardware then torque hardware in criss-cross order; always tighten nuts in the top position.
4. Check and retorque daily until torque is maintained, 85-95 ft.lbs. (115-128 Nm).

4.19 CARE AND CLEANING

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

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 affluent 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, controller, 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.
5. To maintain the original high luster of the fiberglass, periodically wax with a good grade of One-Step cleaner wax.

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.

4.20 REEL BACKLAPPING

WARNING

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

Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the 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. Lower the reels to the ground, disengage all drives, engage parking brake, and stop engine.
2. Loosen locknut **(D)** at valve stem.
3. Start the engine and set throttle to low idle speed.
4. Open hood and place back-lap switch **(B)** to ON. **Reels will begin rotating immediately.**
5. Both the front and rear reel valves contain an adjustable valve **(C)** to control the speed of the reels. The front valve controls the front three reels. The back valve controls the two rear reels. Turn valve counter-clockwise to reduce reel speed. Repeat for both valves.
6. After the desired speed is set, turn backlap switch **(B)** to OFF and stop engine. Tighten nut **(D)** to lock adjustment in place. Start engine and set backlap switch to ON to begin backlapping.
7. Apply lapping compound, with a long handled brush, along the entire length of the reel.
8. When the blades have been evenly honed, carefully, and thoroughly wash off the remaining mixture.
9. Repeat the entire process on the other reels.
10. After backlapping set backlap switch **(B)** to OFF.

Important: The speed control valves limit reverse speed only. Once the desired backlapping speed has been set the valves can remain in this position for normal mowing. If full reverse speed is needed, for instance during operation of vertical mowers, the valve can be fully closed (turn clockwise).

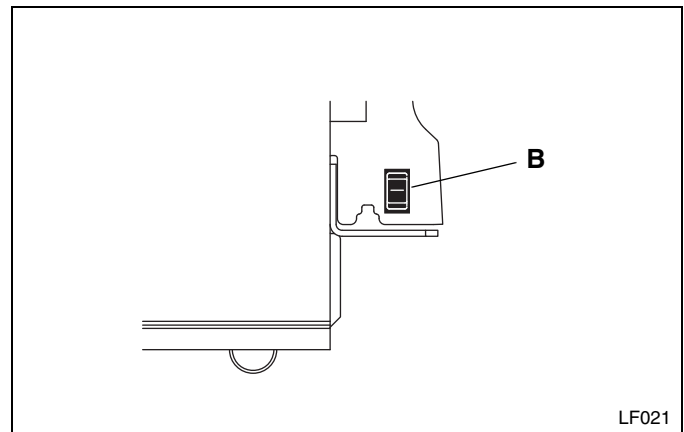


Figure 4D

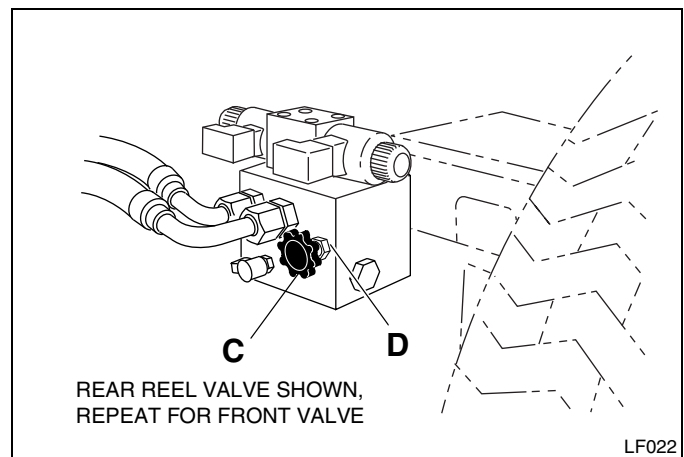


Figure 4E

4 MAINTENANCE

4.21 STORAGE

General

1. Wash the mower thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the mower, tighten all hardware, and 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. Keep the machine and all its accessories clean, dry, and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

Battery

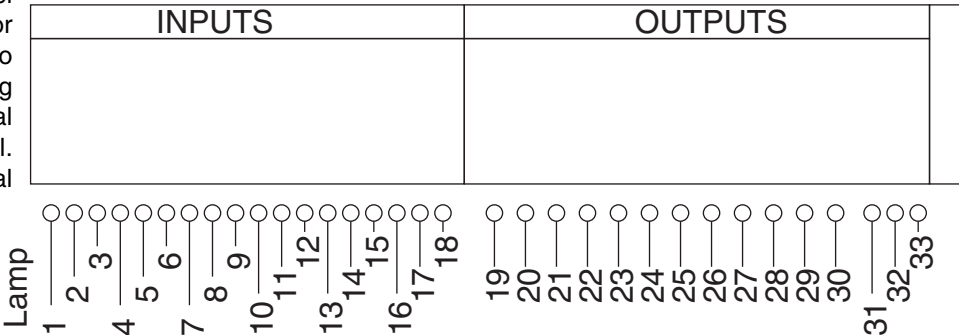
1. Remove, clean, and store battery in upright position in a cool, dry place.
2. Check and recharge battery every 60 to 90 days while in storage.
3. Store batteries in a cool, dry place. To reduce the self discharge rate, room temperature should not be above 80°F (27°C) or fall below 20°F (-7°C) to prevent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

Engine

1. While the engine is warm, remove drain plug, drain the oil from the crankcase, and change the oil filter. Install drain plug and refill with fresh oil. Torque drain plug to 22 ft. lb. (30 Nm).
2. Clean exterior of engine. Paint exposed metal or apply a light coat of rust preventative oil.
3. 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. 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 pedal not in Neutral or mow switch on. 2. Glow plug has not timed out. 3. Battery low on charge or defective. 4. Fuel tank empty or dirty. 5. Fuse blown. 6. Relay defective. 7. Neutral switch on traction pedal out of adjustment or defective. 	<ol style="list-style-type: none"> 1. Check interlock system and start-up procedure. 2. Reset ignition switch and allow glow plug to time out before cranking engine. 3. Inspect condition of battery and battery connections. 4. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 5. Replace fuse. 6. Test and replace relay. 7. Adjust or replace switch.
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 and set mow switch to OFF.
Engine overheating.	<ol style="list-style-type: none"> 1. Coolant level low. 2. Air intake restricted. 3. Water pump belt broken or loose. 	<ol style="list-style-type: none"> 1. Inspect and add coolant. 2. Clean air intake at radiator. 3. Tighten or replace belt.
Battery not holding charge. Battery light on.	<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. Mow speed not adjusted for turf conditions. 4. Mow switch set in reverse. 5. Not enough rear roller pressure. 6. Front roller not following undulations adequately. 	<p>Inspect bedknife-to-reel adjustment.</p> <p>Check engine speed. Run engine at full throttle.</p> <p>Adjust mow speed for best cut.</p> <p>Set for forward rotation.</p> <p>Move down pressure spring one hole towards spring.</p> <p>Move down pressure spring one hole away from spring.</p>

5 TROUBLESHOOTING

5.2 CONTROLLER LAMPS

The controller is a solid state device that monitors and controls electrical functions. The controller receives input signals from various switches and sensors throughout the machine and transmits output signals to operate relays, solenoids, and warning lights. It controls and resets timers and contains built in logic to control certain machine functions.

Each input and output signal is displayed through lamps located on top of the controller. A closed input switch indicates

an active circuit and will turn an input lamp on, an open switch an inactive circuit and will turn a lamp off. Outputs are active when their lights are on.

It is important to note that in some cases a lamp or group of lamps must be on or off for a condition to be true. For example, to start the mower the Mow Switch must be off (lamp 8 off) while the Neutral Start Switch (lamp 12), Brake Switch (lamp 6), and Fuel Valve Hold coil (lamp 27) must be on.

Controller Functions by Lamp Number

Lamp On - Circuit is active

Lamp Off - Circuit is inactive

INPUTS		OUTPUTS	
Lamp	Circuit	Lamp	Circuit
1,2,3,4	Program Select (2, 3 and 4 are not used)	19	Hydraulic Filter Light
5	Brake Switch	20	Hydraulic Oil Level Light
6	Seat Switch	21	Not Used
7	Reel Level Switches	22	Glowplug Light
8	Mow Switch	23	Lower Solenoid
9	Joystick - Lower	24	Raise Solenoid
10	Joystick - Raise	25	Glowplug Relay
11	Hydraulic Oil Level Switch	26	Start Relay
12	Neutral Switch	27	Fuel Solenoid - Hold
13	Backlap Switch	28	4WD Solenoid
14	Keyswitch - Glowplug	29	Audible Alarm
15	Keyswitch - Start	30	Mow Solenoid
16	Joystick Active	31	Fuel Solenoid - Pull
17	Hydraulic Filter Switch	32	Power-Ignition
18	Engine Oil Pressure Switch	33	Power-Lights

5.3 ELECTRICAL CIRCUITS

When troubleshooting the machine using the controller always check that Program Active lamp (1) is on. These indicate that the controller has power and the program is active.

NOTICE

The controller requires a minimum of six volts to operate.

Individual circuits can be tested by operating an input switch, checking for the required input signal, and looking for a corresponding output. Keep in mind that not all switches are located on the instrument panel. The traction pedal, reel lift limit, and brakes are controlled by small reed switches mounted on the frame of the mower.

If an input lamp does not light an inactive condition is indicated. This could be caused by a fuse, faulty switch, or poor connection.

The electrical connections to the solenoids on the hydraulic valves are also equipped with small indicator lamps. When lit these lamps indicate that the output signal has reached the connection. If lamps do not come on, check wires to and from connector.

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 grease fittings before and after lubrication.
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.
3. For smooth operation of pivot points and other friction points, apply several drops of SAE 30 oil every 50 hours or as required.
4. Remove wheels and repack bearings once a year.

6.2 MAINTENANCE CHART

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Every 400 Hours	Every 500 Hours	Every 1000 Hours	Yearly	See Section	Lubricant Type
Air Cleaner			AR					R	4.4	
Battery Charge			I						4.9	
Belt	I-A*		I-A			R			3.8	
Brake		I-A*		A					3.9	
Cooling System	I-C-A							R	4.15	
Engine Oil	I	R*	R						4.2	III
Engine Oil Filter		R*	R						4.3	
Fuel Lines and Clamps		I								
Fuel Filter					R				4.6	
Grease Fittings - F1		L							6.3	II
Grease Fittings - F2			L						6.3	II
Grease Fittings - F3				L					6.3	II
Hydraulic Hoses and Tubes	I***			I					4.11	
Hydraulic Oil		I-A				R**			4.12	IV
Hydraulic Oil Filters		R*				R-AR			4.13	
Muffler and Exhaust				I					4.10	
Radiator Screens	I-C/AR								4.15	
Tires		I-A							4.17	
Steering System		I*		I-A						
Wheel Bearings								L		I
Wiring		I*		I					4.14	

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

* Indicates initial service for new machines.

** Or Yearly whichever comes first.

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

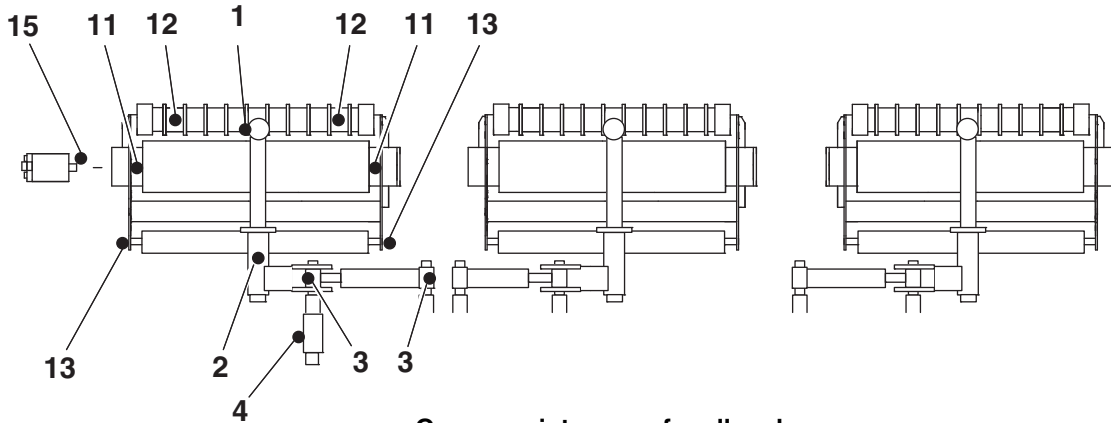
I Pack bearings with NLGI Grade 2 (Service Class GB)

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

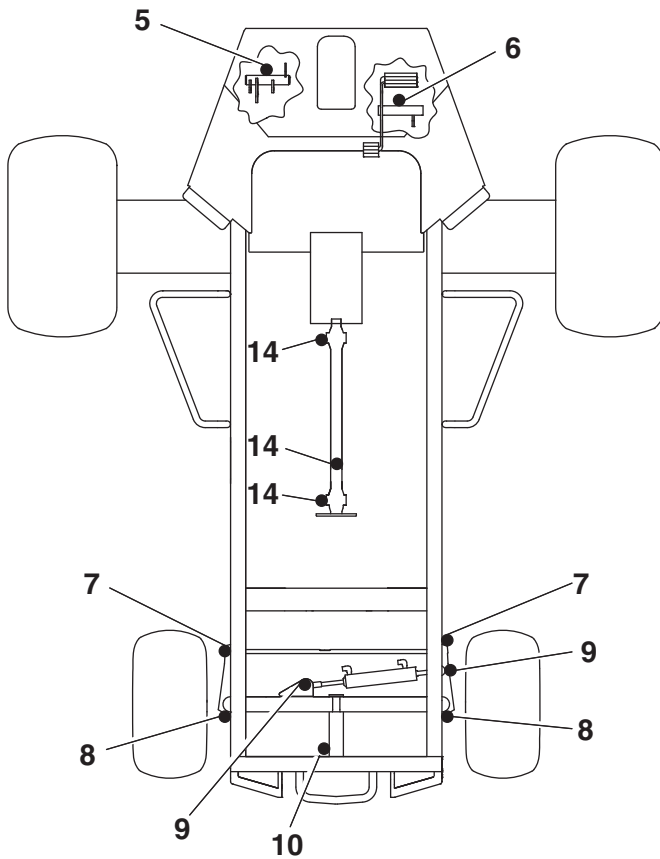
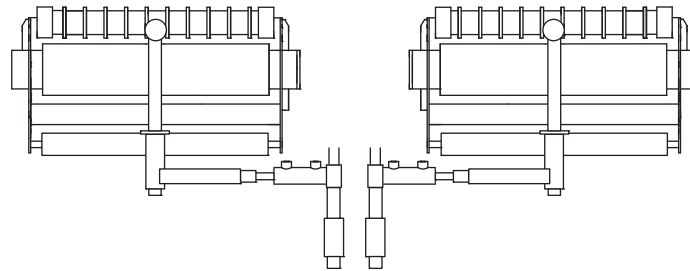
III Engine Oil - See Section 4.3

IV Jacobsen Hydraulic Oil - SAE 10W30 or Greens Care 68

6.3 LUBRICATION CHART



Grease points same for all reels



Grease Fittings

F1 - 50 Hours (Every Week)

- 1 Swivel Housing
- 2 Lift Arm
- 3 Lift Cylinders
- 4 Lift Arm Pivot
- 5 Brake Pedal Pivot
- 6 Traction Pedal Pivot
- 7 Ball Joint
- 8 Steering Pivot
- 9 Steering Cylinder
- 10 Axle Pivot

F2 - 100 Hours

- 11 Reel Bearing Cavity
- 12 Front Roller
- 13 Rear Roller
- 14 U-joint Driveshaft

F3 - 250 Hours

- 15 Motor Spline

7 PARTS CATALOG

7.1 HOW TO USE THE PARTS CATALOG

Abbreviations

N/S -Not serviced seperately, 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 seperately or as part of the main component.

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

7.2 TO ORDER PARTS

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

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

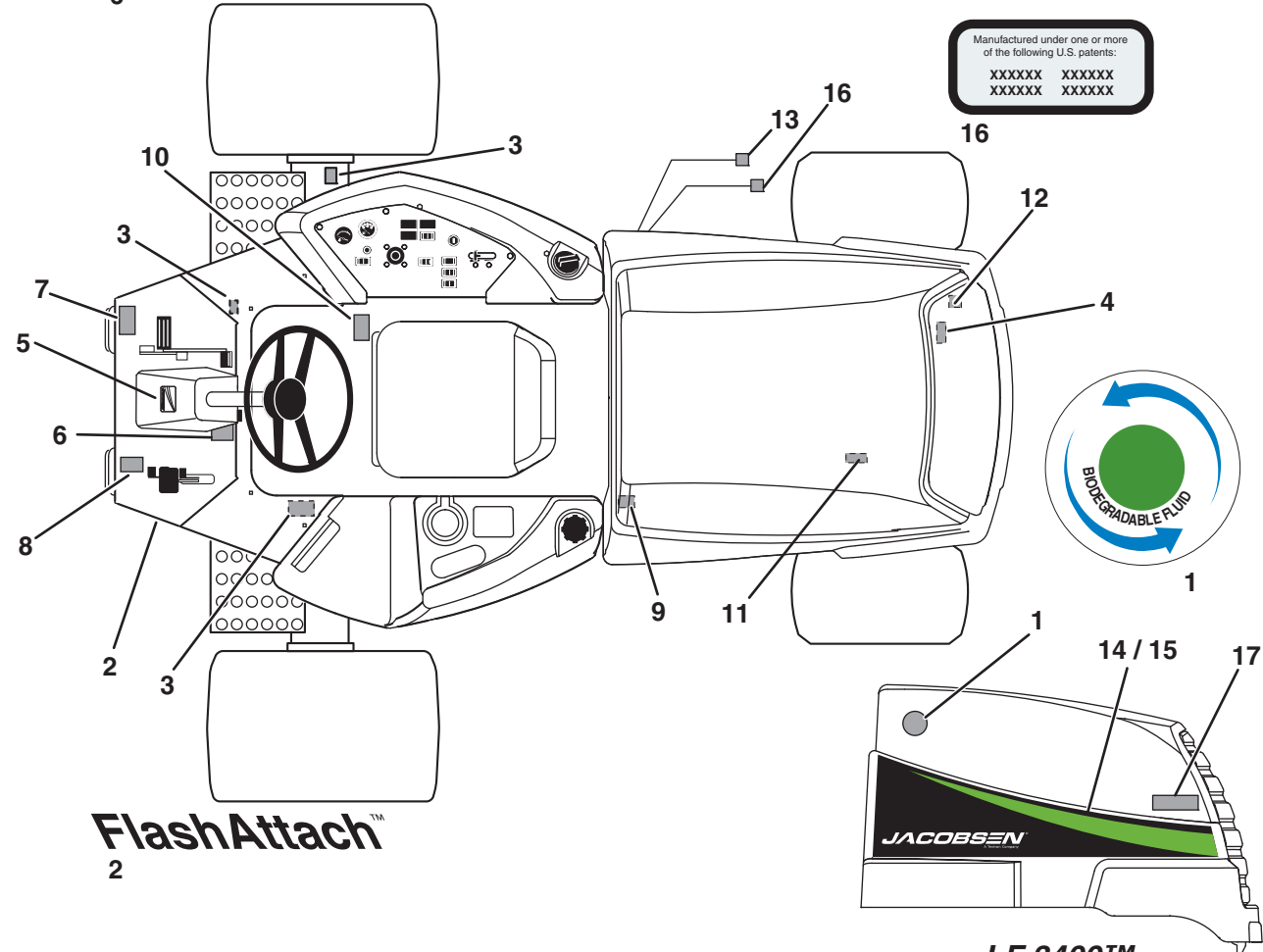
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1.1 Decals



6



Manufactured under one or more of the following U.S. patents:
 XXXXXX XXXXXX
 XXXXXX XXXXXX

FlashAttach™
2

LF 3400™
LF 3400™ 4WD
LF 3800™
LF 3800™ 4WD
LF 3400™ Turbo 4WD
LF 3800™ Turbo 4WD
 19



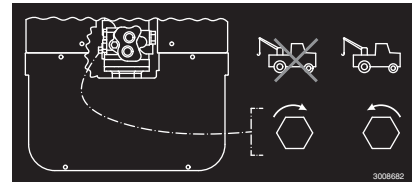
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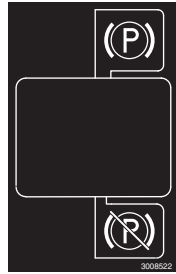
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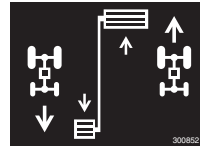
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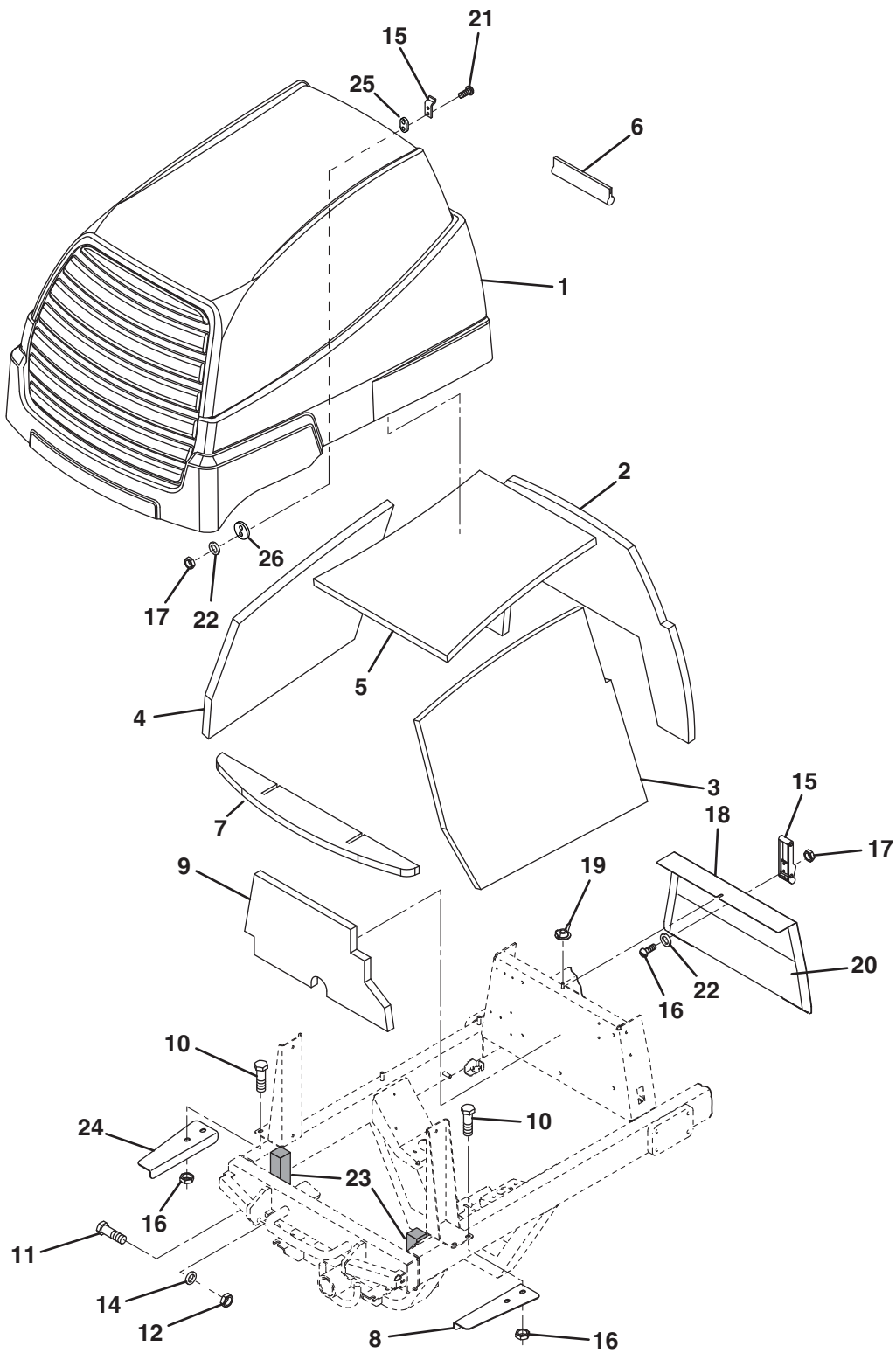


3

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4111408	1	Decal, Bio Fluid	
2	3008930	1	Decal, Flash Attach	
3	3008683	2	Decal, Backlap	Located on Front Axle
4	4181862	1	Decal, Radiator Cap Warning	Located on top of Radiator
5	4182386	1	Decal, Jacobsen Emblem	
6	4181865	1	Decal, Instruction	
7	3008521	1	Decal, Traction Pedal	
8	3008522	1	Decal, Brake	
9	4181864	1	Decal, Battery Warning	Located on Controller Housing
10	3008682	1	Decal, Tow Valve	
11	4181861	1	Decal, Start Fluids	
12	4131663	1	Decal, Backlap	Located on Radiator Shroud
13	4117468	1	Decal, Noise 105 dB	Located on Frame
14	4156720	1	Decal, Left Side Stripe	
15	4156721	1	Decal, Right Side Stripe	
16	4194325	1	Decal, Patent	Located on Frame. 67971, 67972, 67960
16	4194326	1	Decal, Patent	Located on Frame. 67958, 67959, 67961
17	4124693	2	Decal, LF 3400	67971 Only
17	4124694	2	Decal, LF 3400 4WD	67972 Only
17	4124695	2	Decal, LF 3800	67958 Only
17	4124696	2	Decal, LF 3800 4WD	67959 Only
17	4124697	2	Decal, LF 3400 Turbo 4WD	67960 Only
17	4124698	2	Decal, LF 3800 Turbo 4WD	67961 Only

> Change from previous revision

2.1 Hood



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4139087	1	Hood Assembly, LF 3400/3800	Includes Items 13 ~ 16 on Illustration 1.1
2	4124443	1	• Foam, Front	
3	4124437	1	• Foam, Right Side	
4	4124436	1	• Foam, Left Side	
5	4124442	1	• Foam, Top	
6	557620	4	• Molding	
7	4196102	1	• Foam	
8	4129680	1	Seal, Right Side Air	
9	3007548	1	Foam, Control Module	
10	800794	4	Screw, 5/16-18 x 3/4 Hex Flange	
11	400408	2	Screw, 1/2-13 x 1-1/2" Hex Head	
12	444758	2	Locknut, 1/2-13 Center	
13	800907	4	Nut, 5/16-18 Hex Flange	
14	453017	2	Flat Washer, 1/2	
15	366883	1	Over Center Latch	
16	402056	2	Screw, #8-32 x 3/8" Slotted Head	
17	444306	4	Nut, #8-32 Hex	
18	3006873	1	Cover, Front Mount	
19	3008195	1	Wing Nut, 1/4-20 Steel	
20	3009210	1	Foam (Cut To Length)	
21	402066	2	Screw 8-32 x 3/8" Slotted Head	
22	446110	4	Lockwasher, #8	
23	4138359	2	Foam	
24	4129679	1	Seal, Left Side Air	
25	4184080	1	Spacer, Front Hood	
26	4184081	1	Spacer, Rear Hood	

> Change from previous revision

LF 3400 / LF 3800

3.1 Seat Pan

Michigan Seat

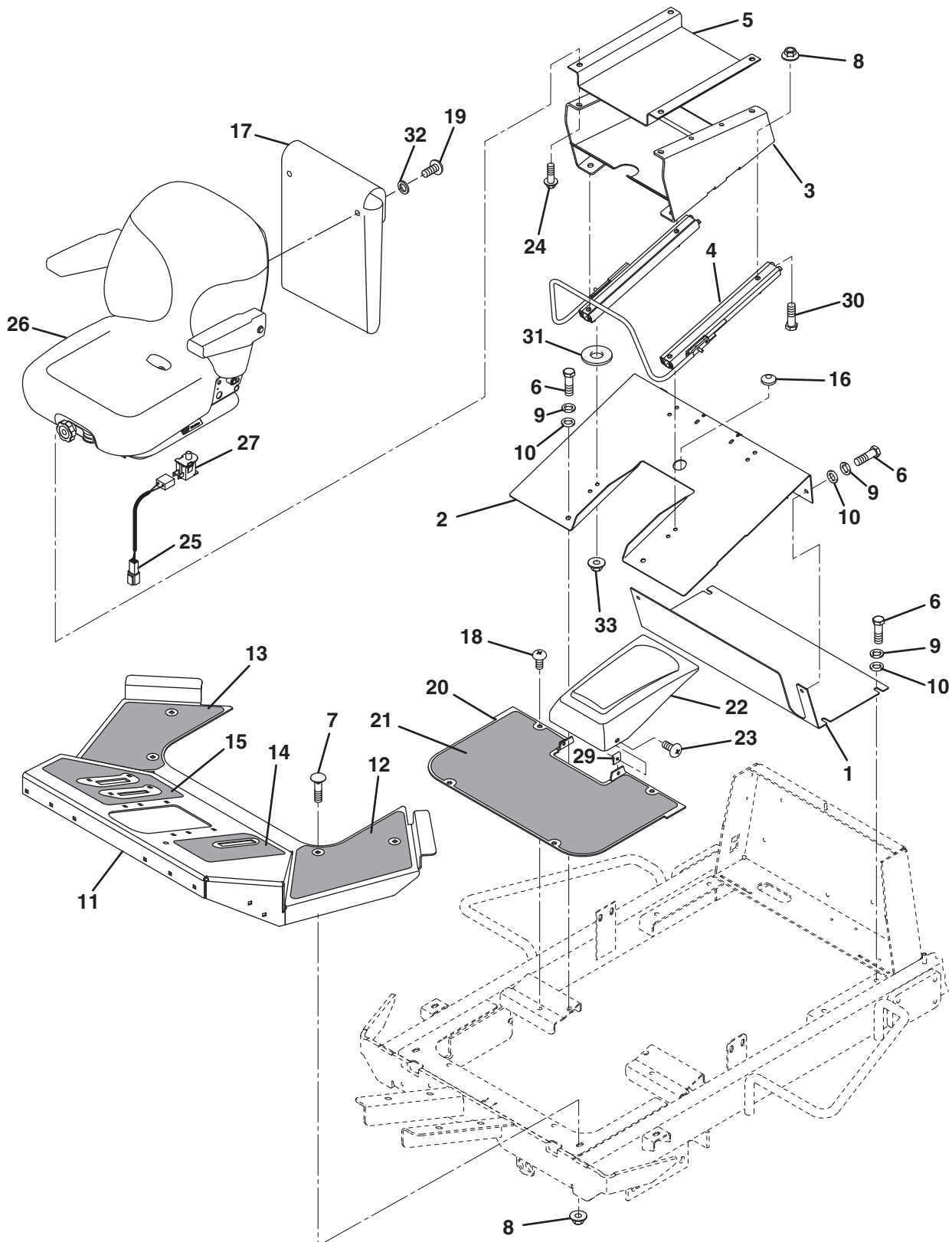
Serial No. 67958 - 1651 ~ 1678

Serial No. 67972 - 1651 ~ 1709

Serial No. 67959 - 1651 ~ 1695

Serial No. 67961 - 1651 ~ 1671

Serial No. 67971 - 1651 ~ 1713



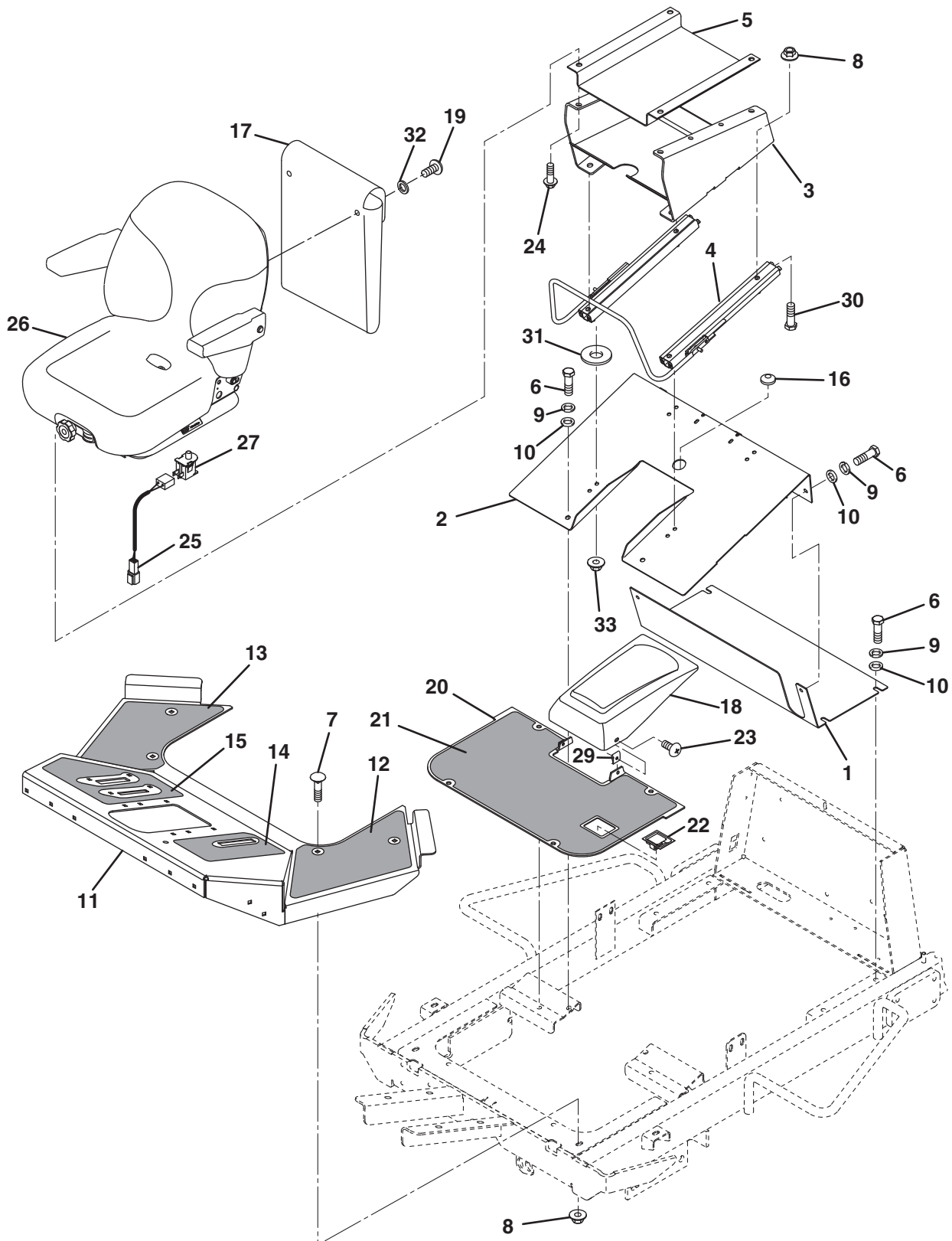
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004279	1	Floorpan	
2	3009292	1	Seat Pan	
3	4139241	1	Support, Seat	
4	4131137	1	Adjuster, Double Latching	
5	4139237	1	Base, Seat	
6	400258	9	Screw, 3/8-16 x 3/4" Hex Head	
7	441602	4	Carriage Bolt, 5/16-18 x 3/4"	
8	445795	12	Nut, 5/16-18 Spiralock Flange	
9	446142	9	Lockwasher, 3/8 Heavy	
10	452008	9	Flat Washer, 3/8	
11	5003162	1	Platform	Includes Items 6 - 8, Illustration 1.1
12	3007609	1	• Pad, Left Floorboard	
13	3007610	1	• Pad, Right Floorboard	
14	3007611	1	• Pad, Left Foot	
15	3007612	1	• Pad, Right Foot	
16	315387	1	Grommet	
17	3003928	1	Pouch, Literature	
18	404118	4	Screw, 3/8-16 x 7/8" Truss Head	
19	800943	2	Screw, #10-16 x 3/4" Plastic Tapping	
20	5003191	1	Floorboard	
21	3007608	1	• Pad, Center Floorboard	
22	3008218	1	Cover, Hydro	
23	404016	2	Screw, 1/4-20 x 5/8" Truss Head	
24	409812	4	Screw, 5/16-18 x 3/4" Self Tapping	
25	5003769	1	Harness, Seat Switch	
26	4139433	1	Seat, Suspension	
27	4139450	1	• Seat Switch	REFERENCE SW-10, See 46.1
28	4139436	1	• Kit, Arm Rest	
29	445245	2	Tinnerman Nut	
30	403751	4	Screw, 5/16-18 X 3/4" Serr Washer	
31	831053	4	Spacer, Seat	
32	452004	2	Flat Washer, 1/4	
33	64246-02	4	Nut, M8-1.25 Whizlock Flange	

> Change from previous revision

LF 3400 / LF 3800

3.2 Seat Pan

Michigan Seat



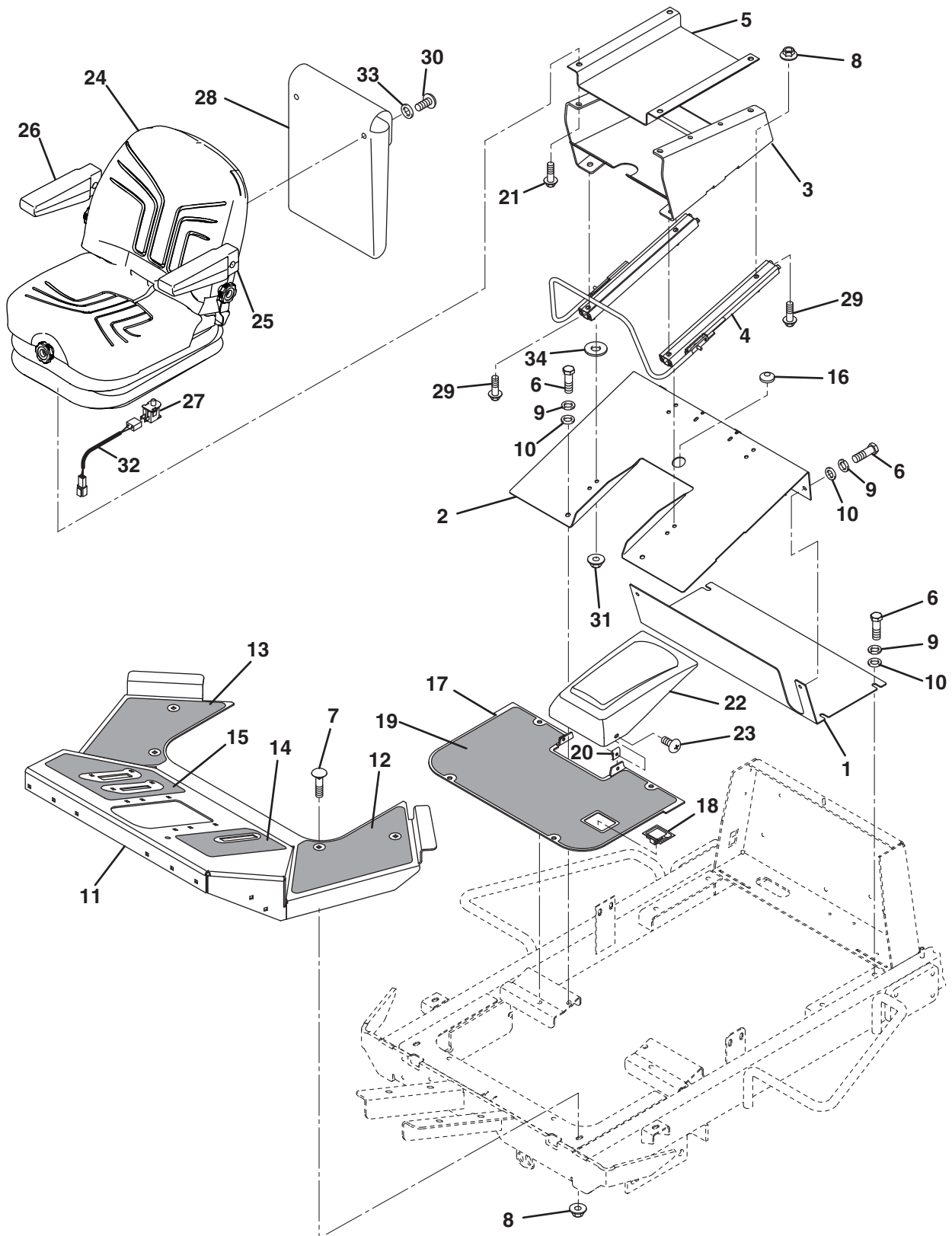
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9	446142	9	Lockwasher, 3/8 Heavy	
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11	5003162	1	Platform	Includes Items 6 - 8, Illustration 1.1
12	3007609	1	• Pad, Left Floorboard	
13	3007610	1	• Pad, Right Floorboard	
14	3007611	1	• Pad, Left Foot	
15	3007612	1	• Pad, Right Foot	
16	315387	1	Grommet	
17	3003928	1	Pouch, Literature	
18	3008218	1	Cover, Hydro	
19	800943	2	Screw, #10-16 x 3/4" Plastic Tapping	
20	4133119	1	Floorboard	
21	4123725	1	• Pad, Center Floorboard	
22	4123723	1	• Latch, Panel	
23	404016	2	Screw, 1/4-20 x 5/8" Truss Head	
24	409812	4	Screw, 5/16-18 x 3/4" Self Tapping	
25	5003769	1	Harness, Seat Switch	
26	4139433	1	Seat, Suspension	
27	4139450	1	• Seat Switch	REFERENCE SW-10, See 46.1
28	4139436	1	• Kit, Arm Rest	
29	445245	2	Tinnerman Nut	
30	403751	4	Screw, 5/16-18 X 3/4" Serr Washer	
31	831053	4	Spacer, Seat	
32	452004	2	Flat Washer, 1/4	
33	64246-02	4	Nut, M8-1.25 Whizlock Flange	

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LF 3400 / LF 3800

3.3 Seat Pan

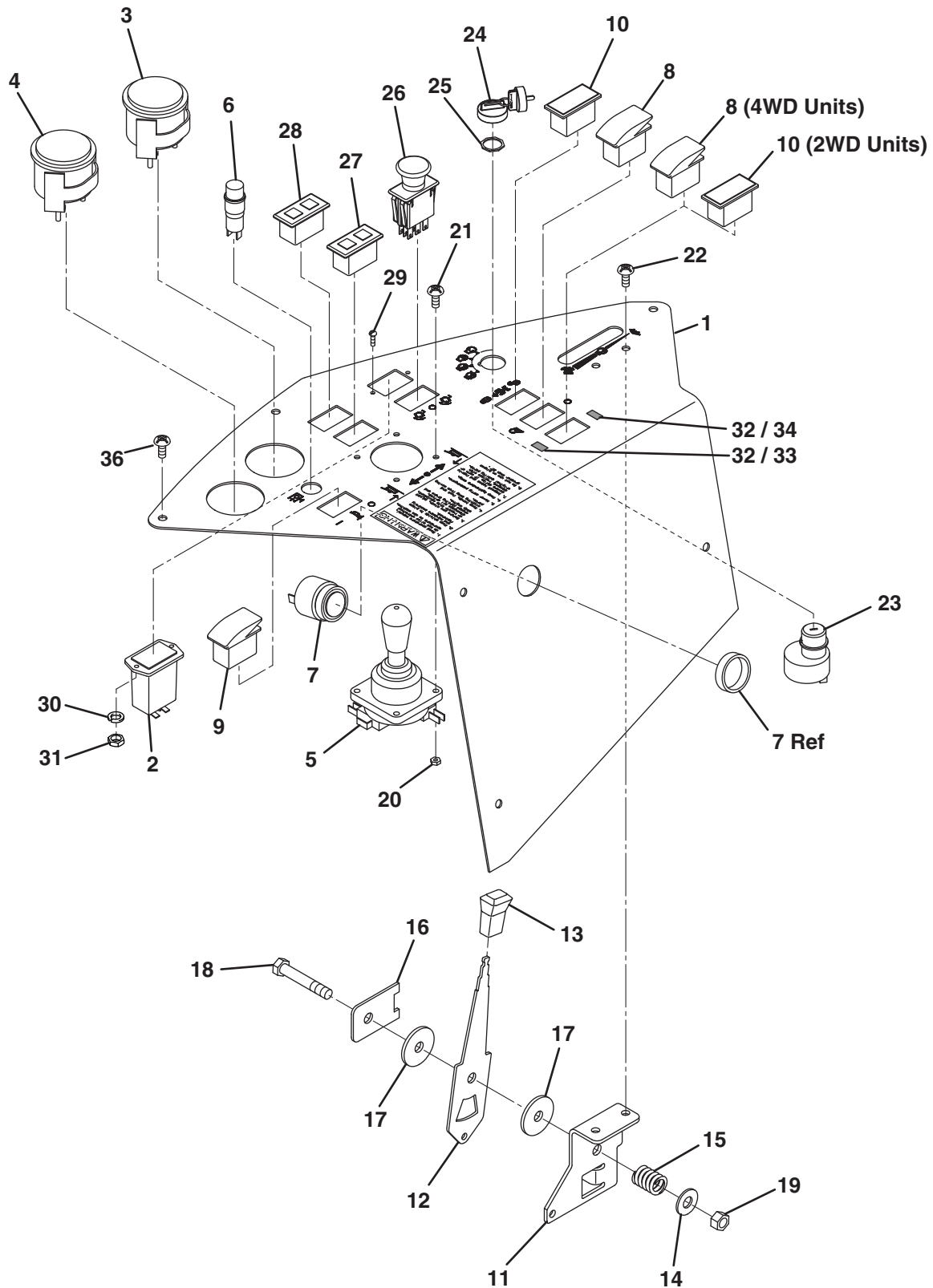
Harita Seat



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004279	1	Floor Pan	
2	3009292	1	Seat Pan	
3	4185267	1	Support, Seat	
4	4131137	1	Adjuster, Double Latching	
5	4221081	1	Base, Seat	
6	400258	9	Screw, 3/8-16 x 3/4" Hex Head	
7	441602	4	Carriage Bolt, 5/16-18 x 3/4"	
8	445795	8	Nut, 5/16-18 Spiralock Flange	
9	446142	9	Lockwasher, 3/8 Heavy	
10	452008	4	Flat Washer, 3/8	
11	5003162	1	Platform	Includes Items 6 - 8, Illustration 1.1
12	3007609	1	• Pad, Left Floorboard	
13	3007610	1	• Pad, Right Floorboard	
14	3007611	1	• Pad, Left Foot	
15	3007612	1	• Pad, Right Foot	
16	315387	1	Grommet	
17	4133119	1	Floorboard	
18	4123723	1	• Latch, Panel	
19	4123725	1	• Pad, Center Floorboard	
20	445245	2	• Tinnerman Nut	
21	452388	4	Screw, M8-1.25 x 20 mm	
22	3008218	1	Cover, Hydro	
23	404016	2	Screw, 1/4-20 x 5/8" Truss Head	
24	4182762	1	Suspension Seat Assembly	
	4210685	1	• Arm Rest Kit	
25	4210682	1	• • Arm Rest, L.H.	
26	4210683	1	• • Arm Rest, R.H.	REFERENCE SW-10, See 46.1
	4211101	1	• Seat Bottom	
27	4210500	1	• Switch, Seat	
28	3003928	1	Pouch, Literature	
29	403751	2	Screw, 5/16-18 X 3/4" Serr Washer	
30	800943	2	TScrew, #10-16 x 3/4" Plastic	
31	64246-02	4	Nut, M8-1.25 Whizlock Flange	
32	5003769	1	Seat Switch Harness	
33	452004	2	Flat Washer, 1/4	
34	831053	4	Spacer, Seat	
35				
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43				

> Change from previous revision

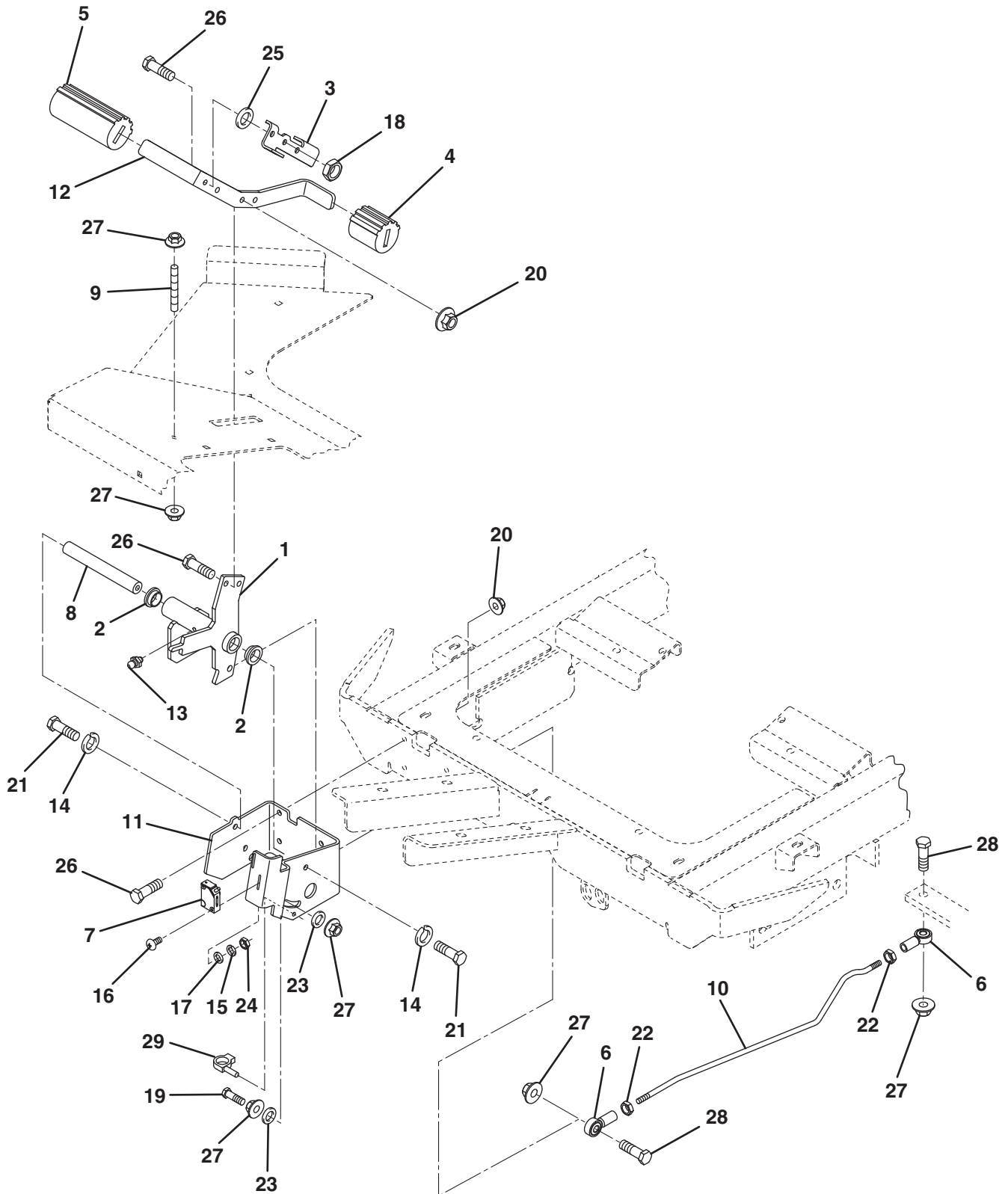
4.1 Instrument Panel



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4130114	1	Instrument Panel	Includes silk screen decals
2	4129683	1	Hour Meter, Quartz	REFERENCE U-3, See 46.1
3	365943	1	Fuel Gauge	REFERENCE U-2, See 46.1
4	3005121	1	Water Temperature Gauge	REFERENCE U-1, See 46.1
5	1004290	1	Joystick, 1 Axis	REFERENCE SW-12, See 46.1
6	366751	1	Indicator Light, Yellow	REFERENCE L-7, See 46.1
7	366670	1	Horn	REFERENCE U-4, See 46.1
8	4130132	1	Switch, Rocker (2WD Units)	REFERENCE SW-3, See 46.1
8	4130132	2	Switch, Rocker (4WD Units)	REFERENCE SW-3 & SW-6, See 46.1
9	4130133	1	Switch, Rocker	REFERENCE SW-5, See 46.1
10	4130134	2	Hole Plug	2WD Units
10	4130134	1	Hole Plug	4WD Units
11	1002810	1	Bracket, Throttle	
12	3006036	1	Lever, Throttle	
13	366768	1	Knob	
14	452008	1	Flat Washer, 3/8"	
15	351956	1	Spring, Compression	
16	3006035	1	Plate, Friction	
17	360885	2	Washer, Friction	
18	400272	1	Screw, 3/8-16 x 2-1/4" Hex Head	
19	444762	1	Locknut, 3/8-16 Center	
20	444310	4	Nut, #10-24 Hex	
21	403912	4	Screw, #10-24 x 5/8" Truss Head	
22	404016	2	Screw, 1/4-20 x 5/8" Truss Head	
23	4128888	1	Switch Assembly, Key	REFERENCE SW-2, See 46.1
24	4131618	1	• Key	
25	N/S	1	• Nut	
26	4174684	1	Switch, PTO	REFERENCE SW-11, See 46.1
27	4130148	1	Light, Indicator Electric	REFERENCE L3 & L4, See 46.1
28	4130149	1	Light, Indicator Fluids	REFERENCE L5 & L6, See 46.1
29	402006	2	Screw, #6-32 x 1/2 SL RD HD	
30	446106	2	Lockwasher, #6 Heavy	
31	444304	2	Nut, #6-32 Hex	
32	4131772	2	Decal, Blank	2WD Units
33	4120211	1	Decal, 4WD Position	4WD Units
34	4120212	1	Decal, 2WD Position	4WD Units
35	3001376	2	Bulb, Lamp	Not Shown
36	403908	6	Screw, #10-24 x 3/8" Truss Head	

> Change from previous revision

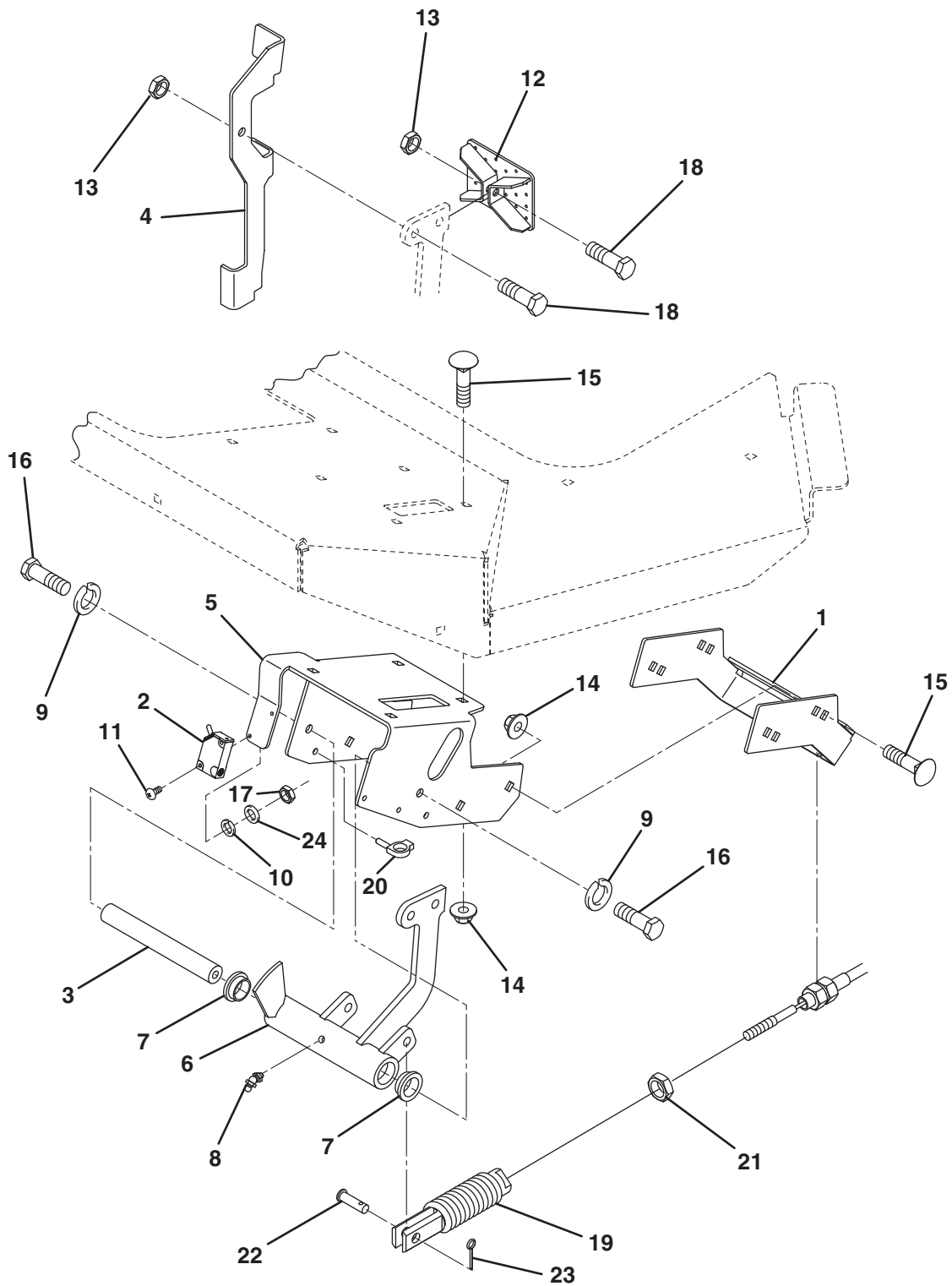
5.1 Traction Pedal Linkage



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003288.7	1	Hydro Pivot Assembly	REFERENCE SW-7, See 46.1
2	352726	2	• Bushing	
3	3007230	1	Stop, Mow Speed	
4	3003474	1	Grip, Pedal	
5	3003475	1	Grip, Pedal	
6	366974	2	Rod End	
7	4125831	1	Switch, Proximity	
8	3006327	1	Shaft, Turn Assist	
9	333542	1	Tie Stud	
10	3006998	1	Rod, Hydro	
11	4129465	1	Bracket, Hydro Mount	
12	3007001	1	Pedal, Hydro	
13	471216	1	Fitting, Grease 1/4 - 28	
14	446136	2	Lockwasher, 5/16 Heavy	
15	446102	2	Lockwasher, #4	
16	800440	2	Screw, #4-40 X 1" Truss Head	
17	308404	2	Flat Washer, #4	
18	444718	1	Locknut, 5/16-18 Center	
19	400272	1	Screw, 3/8-16 x 2-1/4" Hex Head	
20	445795	6	Nut, 5/16-18 Spiralock Flange	
21	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
22	443112	2	Nut, 3/8-24 Hex	
23	452008	2	Flat Washer, 3/8	
24	444302	2	Nut, #4-40 Hex	
25	3002695	1	Washer	
26	400188	7	Screw, 5/16-18 x 1" Hex Head	
27	445796	6	Nut, 3/8-16 Spiralock Flange	
28	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
29	3008383	1	Clip, Wire Harness	

> Change from previous revision

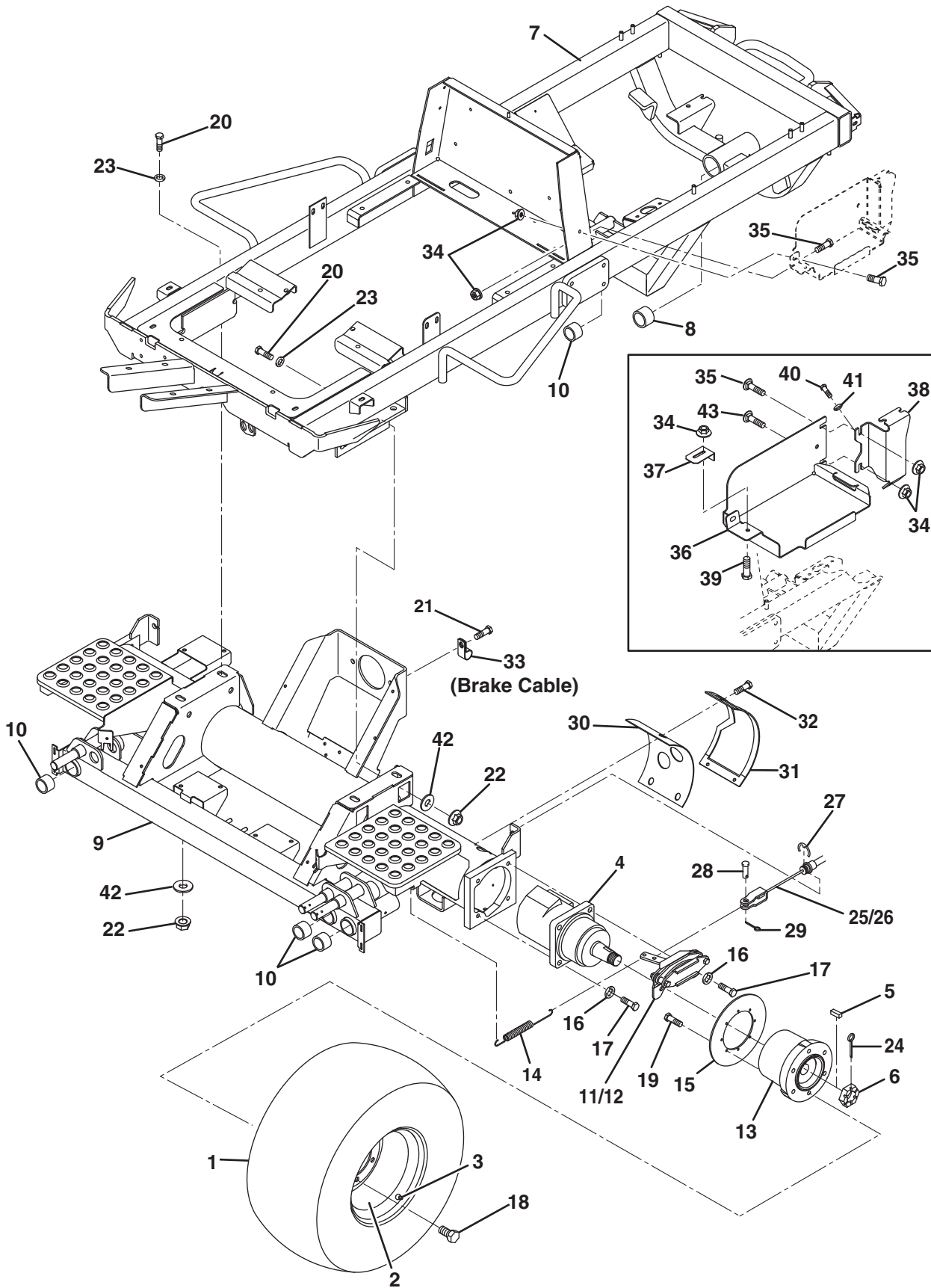
6.1 Brake Pedal Linkage



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4142455	1	Bracket, Brake	REFERENCE SW-8, See 46.1
2	4125831	1	Switch, Proximity	
3	3006327	1	Shaft, Turn Assist	
4	3007606	1	Lever, Parking Brake	
5	4129466	1	Mount, Brake	
6	1003616	1	Brake Arm	
7	352726	2	• Bushing	
8	471227	1	Grease Fitting, 1/4-28 45°	
9	446136	2	Lockwasher, 5/16 Heavy	
10	446102	2	Lockwasher, #4	
11	800440	2	Screw, #4-40 X 1" Truss Head	
12	1003872	1	Pedal	
13	444718	2	Locknut, 5/16-18 Center	
14	445795	8	Nut, 5/16-18 Spirallock Flange	
15	441602	8	Carriage Bolt, 5/16-18 x 3/4"	
16	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
17	444302	2	Nut, #4-40 Hex	
18	400188	2	Screw, 5/16-18 x 1" Hex Head	
19	4108161	2	Brake Spring Assembly	
20	3008383	1	Clip, Wire Harness	
21	443812	2	Nut, 3/8-24 Hex Jam	
22	461451	2	Clevis Pin, 5/16 x 15/16"	
23	460014	2	Cotter Pin, 3/32 x 3/4"	
24	308404	2	Flat Washer, #4	

> Change from previous revision

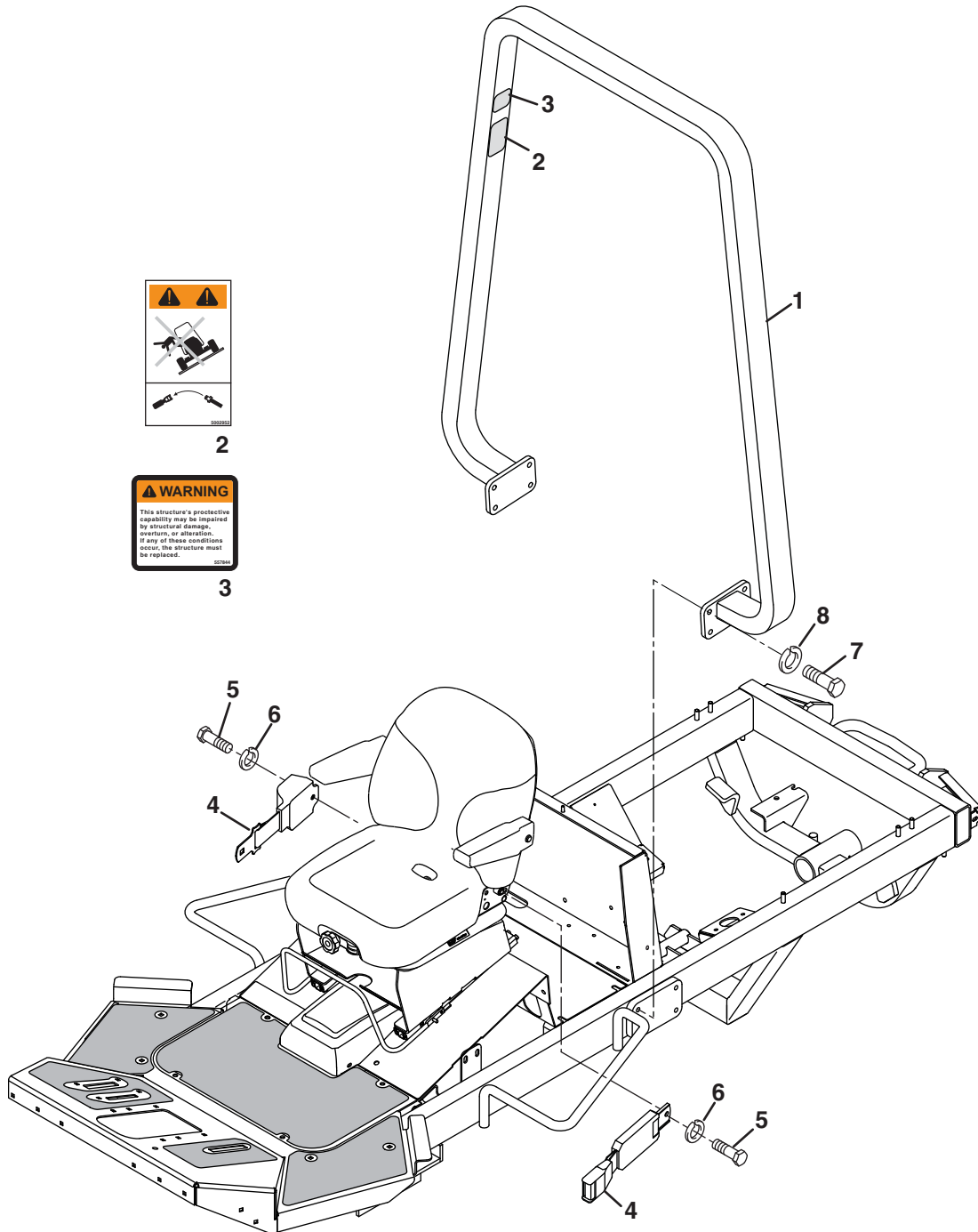
7.1 Frame and Front Axle



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002573	2	Tire	
2	5002574	2	Rim	
3	360111	2	Valve, Inflation	
4	1001757	2	Wheel Motor	See 40.1
5	557623	2	• Key	
6	557624	2	• Nut, Hex	
7	4130197	1	Frame	Includes Four (4) of Item 10
8	366871	2	• Bushing	
9	4132465	1	Front Axle	Includes Six (6) of Item 10
10	366870	10	• Bushing	
11	-	1	Brake Assembly	See 38.1
12	-	1	Brake Assembly	See 38.1
13	2000141	2	Hub, Wheel	
14	319212	2	Spring, Extension	
15	340486	2	Disk Brake	
16	446154	8	Lockwasher, 1/2 Heavy	
17	400410	8	Screw, 1/2-13 x 1-3/4" Hex Head	
18	353914	12	Wheel Bolt	
19	400108	16	Screw, 1/4-20 x 3/4" Hex Head	
20	4113047	6	Screw, 5/8-18 x 1-1/2" Hex Head	Grade 8 Bolt
21	409811	1	Screw, 5/16-18 x 5/8" Thread Cutting	
22	443128	6	Nut, Hex 5/8-18 UNF	
23	452016	6	Flat Washer, 5/8 1.75 x .688 x .1	
24	460093	2	Cotter Pin, 1/8 x 2-1/2"	
25	1003047	1	Cable, Left Brake	
26	1003048	1	Cable, Right Brake	
27	557771	2	• Clip, Brake Cable	
28	461493	2	Clevis Pin, 5/16 x 3/4"	
29	460014	2	Cotter Pin, 3/32 x 3/4"	
30	3007970	2	Seal, Tube	
31	3008193	2	Retainer, Seal	
32	409804	6	Screw, 1/4-20 x 5/8" Thread Cutting	
33	345666	1	Clamp	
34	445795	5	Nut, 5/16-18 Spiralock Flange	
35	441602	5	Bolt, 5/16-18 x 3/4" Carriage	
36	4103060	1	Battery Tray	
37	2810553	1	Clamp, Battery	
38	4103061	1	Bracket, Fuel Filter	
39	400188	1	Screw, 5/16-18 x 1" Hex Head	
40	400258	1	Screw, 3/8-16 x 3/4" Hex Head	
41	446142	1	Lockwasher, 3/8 Heavy	
42	4140094	6	Washer .688 x 1.313 x .150 Hard	
43	441614	1	Carriage Bolt, 5/16-18 x 1"	

> Change from previous revision

8.1 ROPS



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	67844	1	ROPS	
2	5002952	1	• Decal, Seat Belt Warning	
3	557844	1	• Decal, Warning	
4	4139437	1	• Seat Belt Kit	
5	N/S	2	• • Screw, 7/16-20 Hex Head	
6	N/S	2	• • Flat Washer	
7	5000465	8	• Screw, 1/2-13 x 1-1/4" Hex GR 8	
8	446154	8	• Lockwasher, 1/2 Heavy	

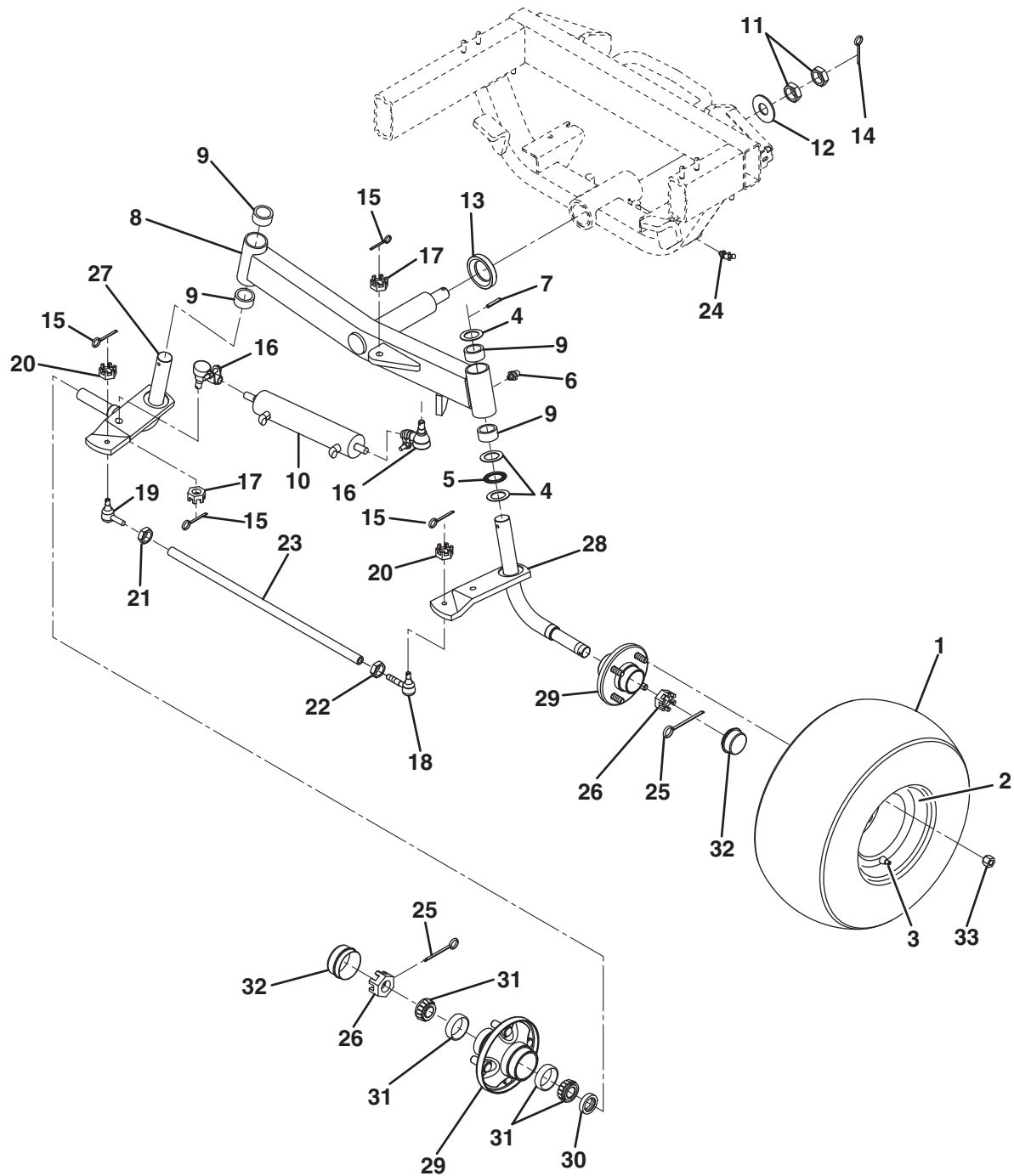
> Change from previous revision

LF 3400 / LF 3800

9.1 2WD Steering

2WD Units Only

Serial No. 67945 - All
Serial No. 67947 - All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3006981	2	Tire	
2	1003638	2	Rim	
3	360111	2	Inflation Valve	
4	361648	6	Washer, Thrust	
5	361647	2	Bearing, Thrust	
6	471214	2	Fitting, Grease	
7	461393	2	Pin, Spring 1/4 x 2"	
8	117139	1	Steering Axle	
9	3010489	4	• Bushing	
10	4137137	1	Cylinder, Steering	
	4137139	1	• Seal Kit	
11	443840	2	Nut, 1-12 Hex Jam	
12	452022	1	Flat Washer, 1	
13	366789	1	Spacer, Axle	
14	460064	1	Cotter Pin, 1/4 x 1-1/2"	
15	460026	4	Cotter Pin, 1/8 x 3/4"	
16	153234	2	Ball Joint	
	400194	2	• Screw, 5/16-18 x 1-3/4"	
	444718	2	• Locknut, 5/16-18 Hex	
	471214	2	• Grease Fitting	
17	445666	2	• Nut, 1/2-20 Slotted Hex	
18	1002032	1	Ball Joint, Right Hand Thread	
19	1002031	1	Ball Joint, Left Hand Thread	
	471214	2	• Grease Fitting	
20	445647	2	• Nut, 3/8-24 Slotted Hex	
21	443120	1	Nut, 1/2-20 Hex Right Hand Thread	
22	445664	1	Nut, 1/2-20 Hex Left Hand Thread	
23	3009378	1	Tie Rod	
24	471227	1	45° Grease Fitting	
25	460050	2	Cotter Pin, 3/16 x 1-1/4"	
26	445710	2	Nut, 1-14 Slotted Hex	
27	2812269	1	Spindle, Right	
28	2812270	1	Spindle, Left	
29	5002910	2	Wheel Hub	
30	554329	2	• Seal, Grease	
31	500596	2	• Bearing, Cup and Cone	
32	545692	2	• Dust Cap	
33	354807	8	• Wheel Nut	

> Change from previous revision

LF 3400 / LF 3800

10.1 4WD Steering

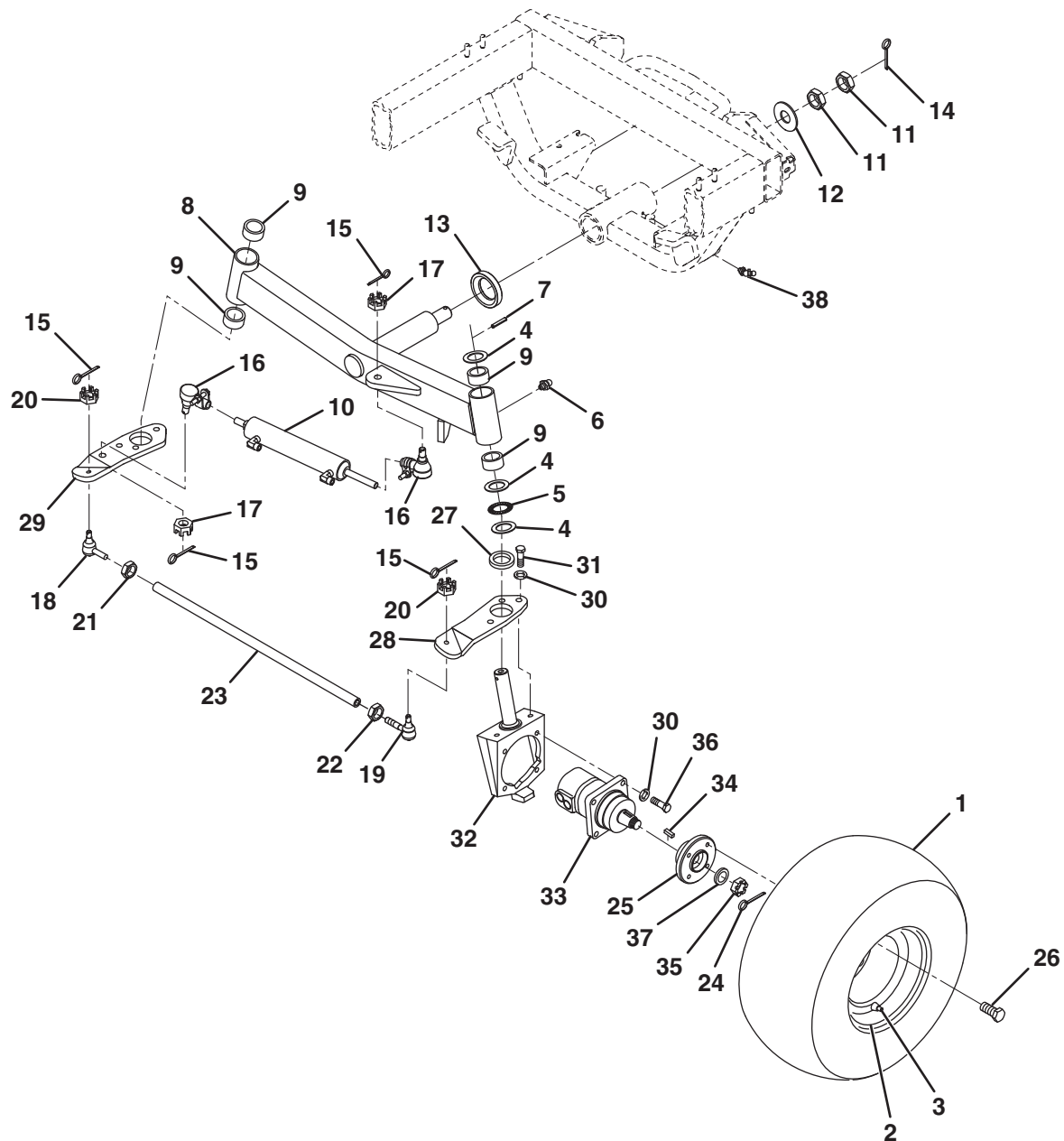
4WD Units Only

Serial No. 67946 - All

Serial No. 67948 - All

Serial No. 67949 - All

Serial No. 67950 - All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3006981	2	Tire	
2	1003638	2	Rim	
3	360111	2	Inflation Valve	
4	361648	6	Washer, Thrust	
5	361647	2	Bearing, Thrust	
6	471214	2	Fitting, Grease	
7	461393	2	Pin, Spring 1/4 x 2"	
8	117139	1	Steering Axle	
9	3010489	4	• Bushing	
10	4137137	1	Cylinder, Steering	
	4137139	1	• Seal Kit	
11	443840	2	Nut, 1-12 Hex Jam	
12	452022	1	Flat Washer, 1	
13	366789	1	Spacer, Axle	
14	460064	1	Cotter Pin, 1/4 x 1-1/2"	
15	460026	4	Cotter Pin, 1/8 x 3/4"	
16	153234	2	Ball Joint	
	400194	2	• Screw, 5/16-18 x 1-3/4"	
	444718	2	• Locknut, 5/16-18 Hex	
	471214	2	• Grease Fitting	
17	445666	2	• Nut, 1/2-20 Slotted Hex	
18	1002032	1	Ball Joint, Right Hand Thread	
19	1002031	1	Ball Joint, Left Hand Thread	
	471214	4	• Grease Fitting	
20	445647	2	• Nut, 3/8-24 Slotted Hex	
21	443120	1	Nut, 1/2-20 Hex Right Hand Thread	
22	445664	1	Nut, 1/2-20 Hex Left Hand Thread	
23	3009378	1	Tie Rod	
24	460032	2	Cotter Pin, 1/8 x 1-1/2"	
25	2000012	2	Hub, Wheel	
26	353914	8	Wheel Bolt	
27	367350	2	Washer, Thrust	
28	2812202	1	Arm, Left Steering	
29	2812201	1	Arm, Right Steering	
30	446154	14	Lockwasher, 1/2 Heavy	
31	400406	6	Screw, 1/2-13 x 1-1/4" Hex Head	
32	2000057	2	Motor Mount	
33	390859	2	Wheel Motor, 2000 Series	See 41.1
34	554780	2	• Key	
35	554779	2	• Nut	
36	400410	8	Screw, 1/2-13 x 1-3/4" Hex Head	
37	361451	2	Washer, Thrust	
38	471227	1	45° Grease Fitting	

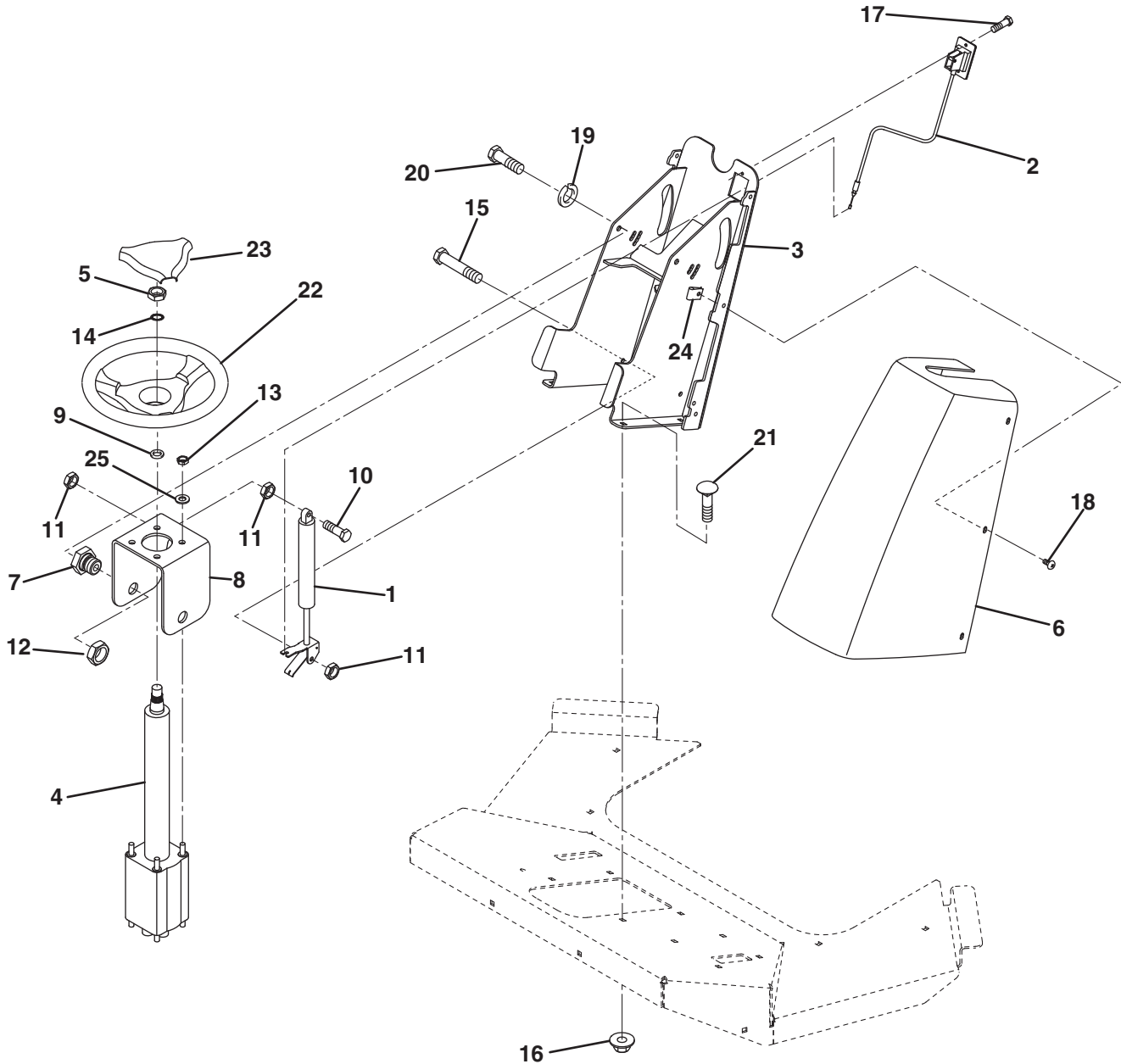
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11.1 Tilt Steering

Serial No. 67958 - 1651 ~ 1766
Serial No. 67959 - 1651 ~ 1840
Serial No. 67960 - 1651 ~ 1654
Serial No. 67961 - 1651 ~ 1693

Serial No. 67971 - 1651 ~ 1835
Serial No. 67972 - 1651 ~ 1863



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002918	1	Actuator, Gas Spring	See 45.1
2	5002919	1	Cable, Actuator	
3	2811346	1	Tower, Steering	
4	4146775	1	Pump, Steering	
	339979	3	• Adapter, Straight	
	339974	2	• Adapter, Straight	
5	443828	1	• Nut, 5/8-18 Hex Jam	
6	3010651	1	Cover, Steering Tower	
7	3005934	2	Bolt, Shoulder	
8	3005981	1	Bracket, Steering Pump	
9	2811547	1	Washer	
10	400192	1	Screw, 5/16-18 x 1-1/2" Hex Head	
11	444718	3	Locknut, 5/16-18 Center	
12	444849	2	Locknut, 3/4-10 Center Jam	
13	444754	4	Locknut, 5/16-24 Center	
14	447224	4	Lockwasher, 5/8 Internal	
15	400216	1	Screw, 5/16-18 x 2-3/4" Hex Head	
16	445795	5	Nut, 5/16-18 Spiralock Flange	
17	416911	2	Screw, #10-24 x 1/2" Thread Cutting	
18	404016	6	Screw, 1/4-20 x 5/8" Truss Head	
19	446142	2	Lockwasher, 3/8 Heavy	
20	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
21	441614	4	Carriage Bolt, 5/16-18 x 1"	
22	2811364	1	Steering Wheel	
23	2811365	1	• Cap, Steering Wheel	
24	445245	6	Tinnerman Clip	
25	453009	4	Washer ,Flat	

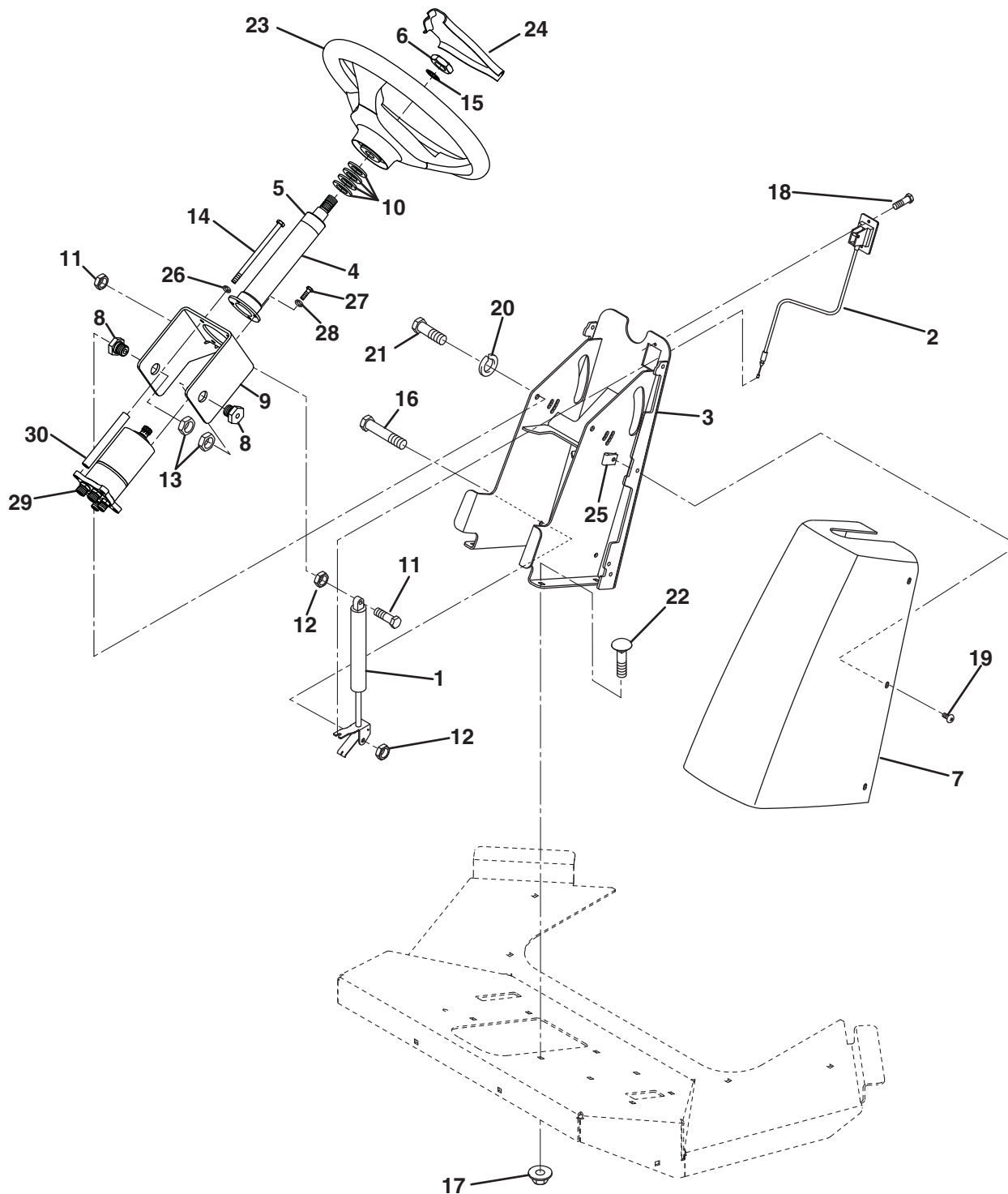
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LF 3400 / LF 3800

11.2 Tilt Steering

Serial No. 67958 - 1767 and Up
Serial No. 67959 - 1841 and Up
Serial No. 67960 - 1655 and Up
Serial No. 67961 - 1694 and Up

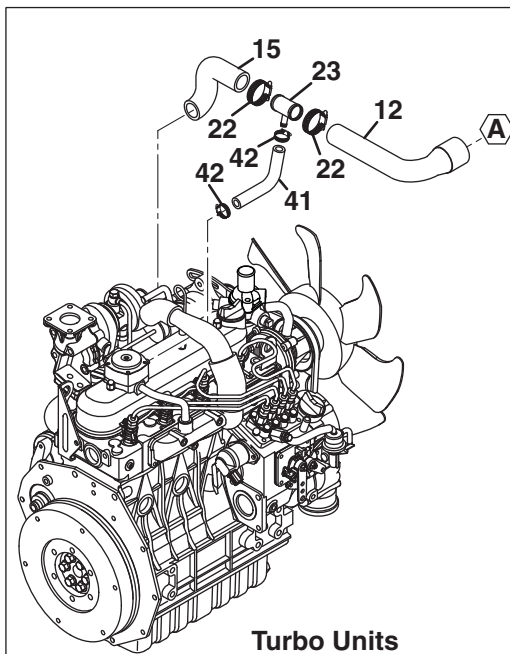
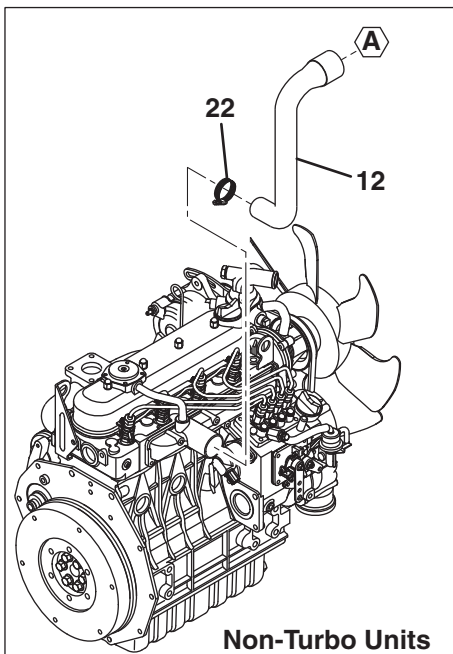
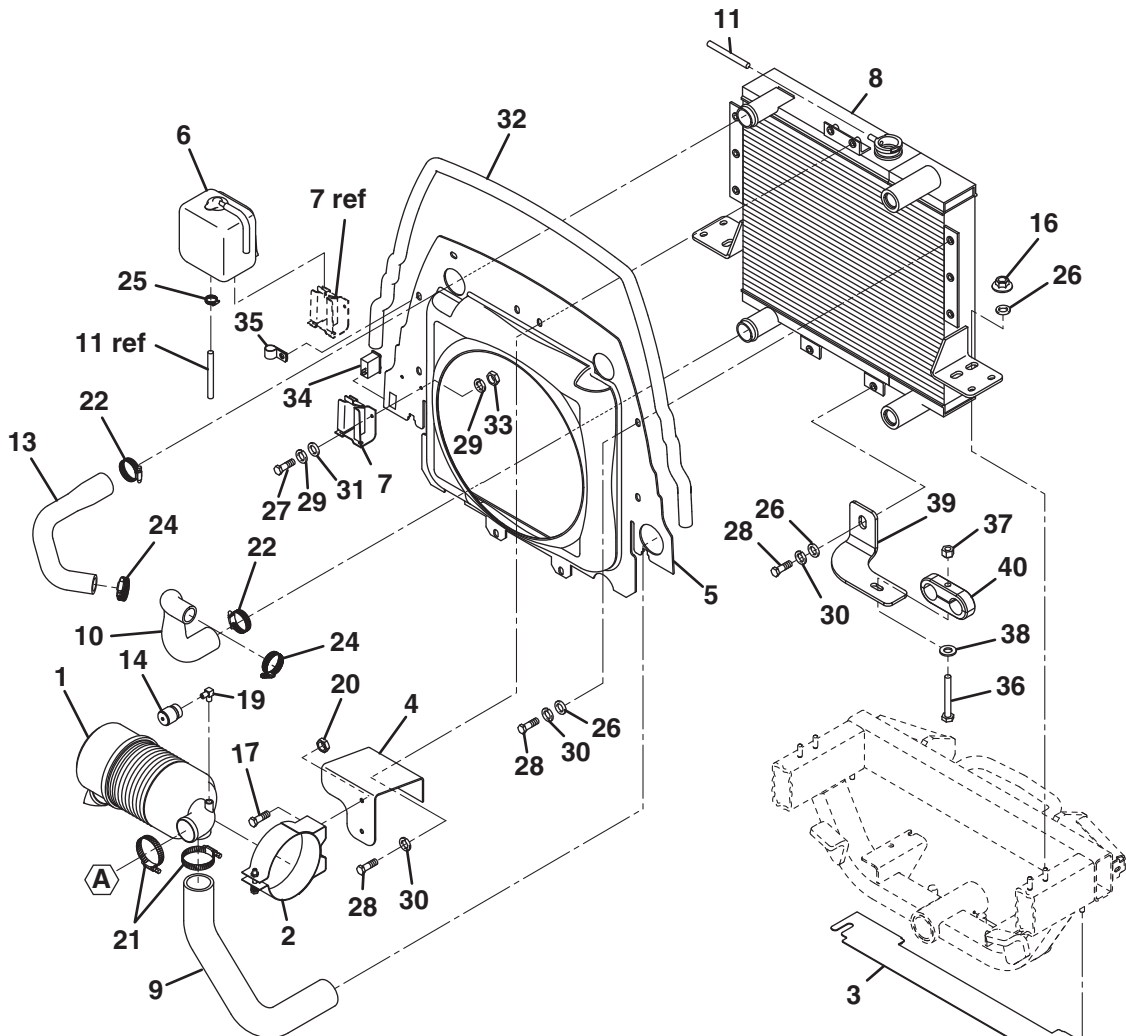
Serial No. 67971 - 1836 and Up
Serial No. 67972 - 1864 and Up



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002918	1	Actuator, Gas Spring	
2	5002919	1	Cable, Actuator	
3	2811346	1	Tower, Steering	
4	4212980	1	Shaft, Steering	
5	4201840	1	• Seal, Steering Shaft	
6	443828	1	• Nut, 5/8-18 Hex Jam	
7	3010651	1	Cover, Steering Tower	
8	3005934	2	Bolt, Shoulder	
9	4211401	1	Bracket, Steering Pump	
10	2811547	4	Washer	
11	400192	1	Screw, 5/16-18 x 1-1/2" Hex Head	
12	444718	3	Locknut, 5/16-18 Center	
13	444849	2	Locknut, 3/4-10 Center Jam	
14	64205-054	4	Screw, M8-1.25 x 130 mm Hex Head	
15	447224	1	Lockwasher, 5/8 Internal	
16	400216	1	Screw, 5/16-18 x 2-3/4" Hex Head	
17	445795	4	Nut, 5/16-18 Spiralock Flange	
18	416911	2	Screw, #10-24 x 1/2" Thread Cutting	
19	404016	6	Screw, 1/4-20 x 5/8" Truss Head	
20	446142	2	Lockwasher, 3/8 Heavy	
21	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
22	441614	4	Carriage Bolt, 5/16-18 x 1"	
23	2811364	1	Steering Wheel	
24	2811365	1	• Cap, Steering Wheel	
25	445245	6	Tinnerman Nut	
26	450411	4	Lockwasher, M8	
27	64205-013	4	Screw, M6-1 x 12 mm Hex Head	
28	450410	4	Lockwasher, M6 x 9.6 x 1.5	
29	4212981	1	Valve, Steering	
	4197940	1	• Seal Kit	
	339908	2	• O-Ring, -4 ORFS	
	339909	3	• O-Ring, -6 ORFS	
30	4211400	4	Spacer, Steering Cylinder	

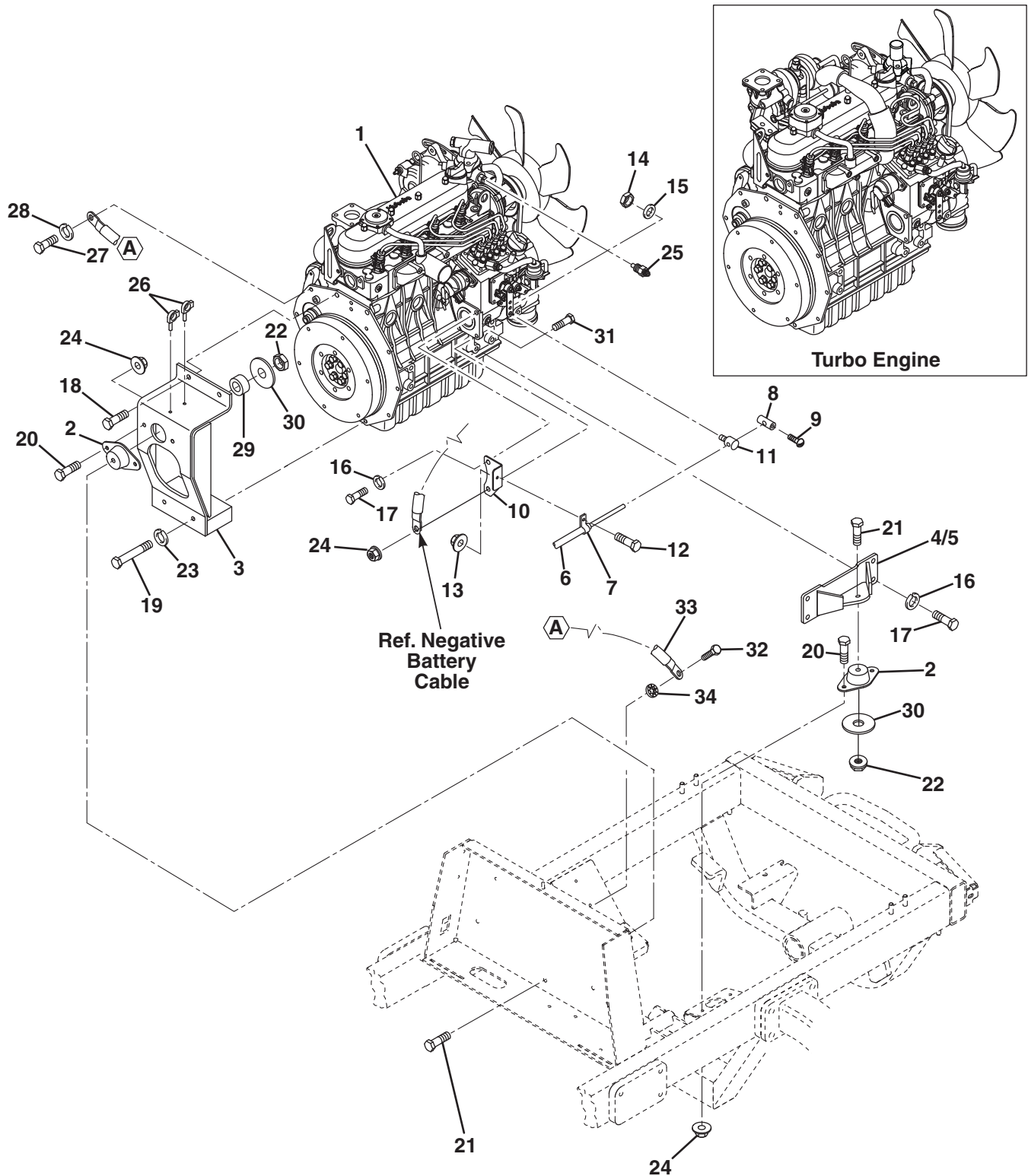
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12.1 Radiator and Air Cleaner



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001965	1	Air Filter	
	5000919	1	• Air Cleaner Element	
	5000920	1	• Cover	
	5000921	1	• Valve	
2	3001388	1	Bracket, Air Filter	
3	4119873	1	Shroud, Rear Frame	
4	4121722	1	Bracket, Air Cleaner Mounting	
5	4131951	1	Shroud, Radiator Fan	Includes Decal 4131663
6	557367	1	Recovery Tank	
7	557374	1	Tank, Stay	
8	4120720	1	Radiator / Hydraulic Oil Cooler	Includes Decal 365956
	550863	1	• Radiator Cap	
9	4121686	1	Hose, Air Cleaner Intake	
10	4121684	1	Hose, Radiator Outlet	
11	5003442	1	Hose, Radiator Overflow, Bulk	
12	3006635	1	Hose, Air Cleaner to Engine	Non Turbo Units
12	4169424	1	Hose, Air Cleaner to Pipe	Turbo Units
13	4121683	1	Hose, Radiator Inlet	Non Turbo Units
13	4183402	1	Hose, Radiator Inlet	Turbo Units
14	365398	1	Indicator, Air Cleaner	
15	4169423	1	Hose, Pipe to Turbo Intake	Turbo Units Only
16	445796	4	Nut, 3/8-16 Spirallock Flange	
17	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
18	445640	2	Nut, 3/8-16 Steel Wing	
19	3002195	1	Elbow, 90°	
20	445795	2	Nut, 5/16-18 Spirallock Flange	
21	359615	2	Clamp, Hose	
22	326112	AR	Clamp, Hose	
23	4168440	1	Pipe, Hose Connection	
24	367458	2	Clamp, Hose	
25	48540-01	1	Clamp, Hose	
26	452008	12	Flat Washer, 3/8	
27	400108	2	Screw, 1/4-20 x 3/4 Hex Head	
28	400264	8	Screw, 3/8-16 x 1-1/4 Hex Head	
29	446128	2	Lockwasher, 1/4	
30	446140	8	Lockwasher, 3/8	
31	452004	2	Flatwasher, 1/4	
32	4130360	AR	Seal	
33	443102	2	Nut, 1/4-20 Hex	
34	3006434	1	Switch, Backlap	REFERENCE SW-4, See 46.1
35	345671	1	Clamp, Overflow Hose	
36	400120	1	Screw, 1/4-20 UNC x 2.00 Hex Head	4WD Units Only
37	445770	1	Nut, 1/4-20 Hex Nylon Insert	4WD Units Only
38	453023	1	Flat Washer, 1/4	4WD Units Only
39	4136508	1	Clamp, Bracket	4WD Units Only
40	367186	2	Clamp, Pipe	4WD Units Only
41	7332	AR	Hose, 7/16" Fuel	
42	10894-02	2	Clamp, Hose	

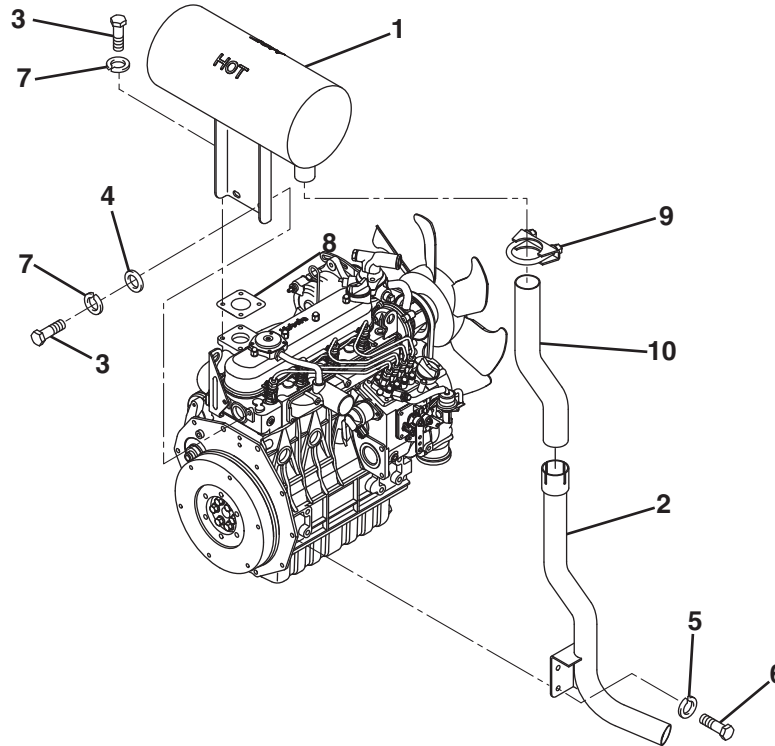
13.1 Engine Assembly and Mounting



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4162400	1	Engine, Kubota V1505-E3B	LF 3400, LF 3800
1	4162421	1	Engine, Kubota V1505-T-E3B	LF 3400 Turbo, LF 3800 Turbo
2	366879	3	Isolator, Engine	
3	1003239	1	Front Engine Mount	
4	1003260	1	Left Side Engine Mount	
5	1003261	1	Right Side Engine Mount	
6	4174241	1	Cable, Throttle	
7	558021	1	• Clip	
8	5003460	1	• Wire Stop	
9	403740	1	• • Screw, #8-32 x 1/2" Hex Head	
10	3006797	1	Bracket, Cable Mounting	
11	3007719	1	Pivot, Throttle Cable	
12	400108	1	Screw, 1/4-20 x 3/4" Hex Head	
13	445794	1	Nut, 1/4-20 Spirallock Flange	
14	444718	1	Locknut, 5/16-18 Center	
15	452006	3	Flat Washer, 5/16	
16	363485	12	Lockwasher, M10 Heavy	
17	366884	9	Screw, M10-1.25 x 20mm Hex Head	
18	362263	2	Screw, M10-1.25 x 25mm Hex Head	
19	361695	2	Screw, M801.25 x 110mm Hex Head	
20	400188	8	Screw, 5/16-18 x 1" Hex Head	
21	400272	3	Screw, 3/8-16 x 2-1/4" Hex Head	
22	444762	3	Locknut, 3/8-16 Center	
23	446136	2	Lockwasher, 5/16 Heavy	
24	445795	7	Nut, 5/16-18 Spirallock Flange	
25	364501	1	Temperature Sender	REFERENCE R-2, See 46.1
26	3008383	2	Clip, Wire Harness	
27	363586	1	Screw, M8-1.25 x 20 mm Hex Head	Replaces 361898
28	446134	1	Lockwasher, 5/16	
29	3010575	1	Spacer, Isolator	
30	367031	3	Washer, Isolator	
31	400190	1	Screw, 5/16-18 x 1-1/4" Hex Head	
32	409811	1	Screw, 5/16-18 x 3/4" Thread Cutting	
33	2810424	1	Cable, Ground	
34	447214	1	Lockwasher, 5/16 Internal Tooth	

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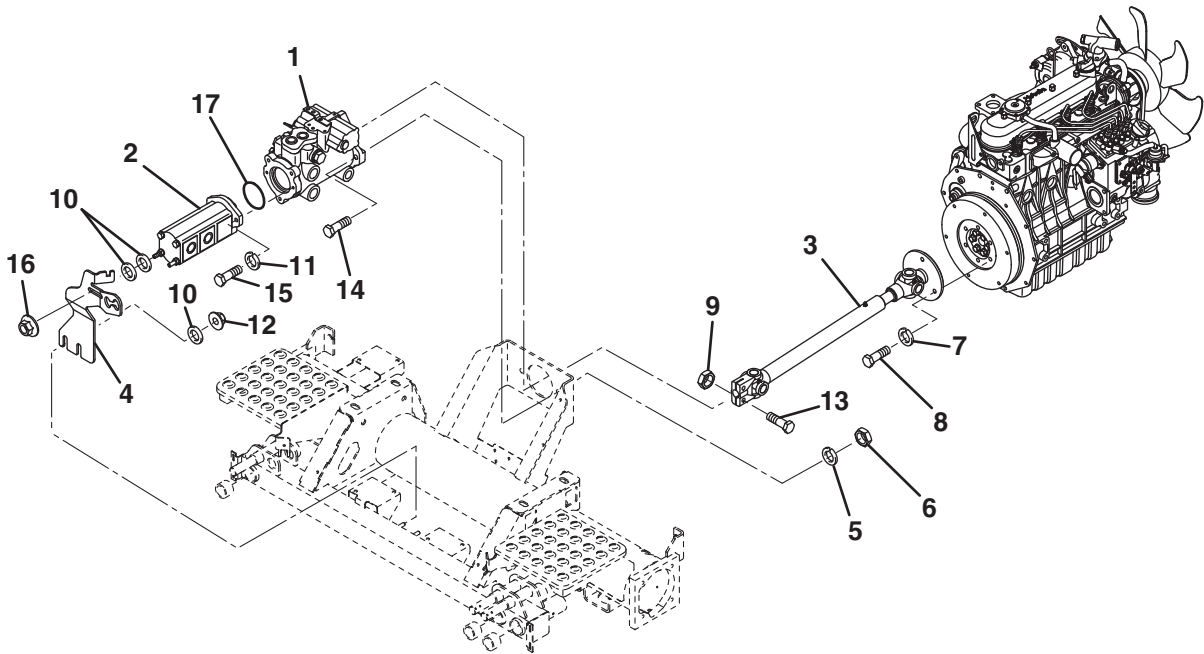
14.1 Engine Exhaust



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004653	1	Muffler	LF 3400 & 3800 Only
1	1002931	1	Muffler	LF 3400 Turbo, LF 3800 Turbo
2	1004598	1	Tailpipe	
3	363586	6	Screw, M8-1.25 x 20mm Hex Head	
4	452006	2	Flat Washer, 5/16	
5	363485	2	Lockwasher, M10 Heavy	
6	366884	2	Bolt, M10-1.25 x 25mm Hex Head	
7	446136	6	Lockwasher, 5/16 Heavy	
8	553020	1	Gasket, Exhaust	
9	348856	1	Clamp, Exhaust	
10	3007889	1	Sleeve Insulating	

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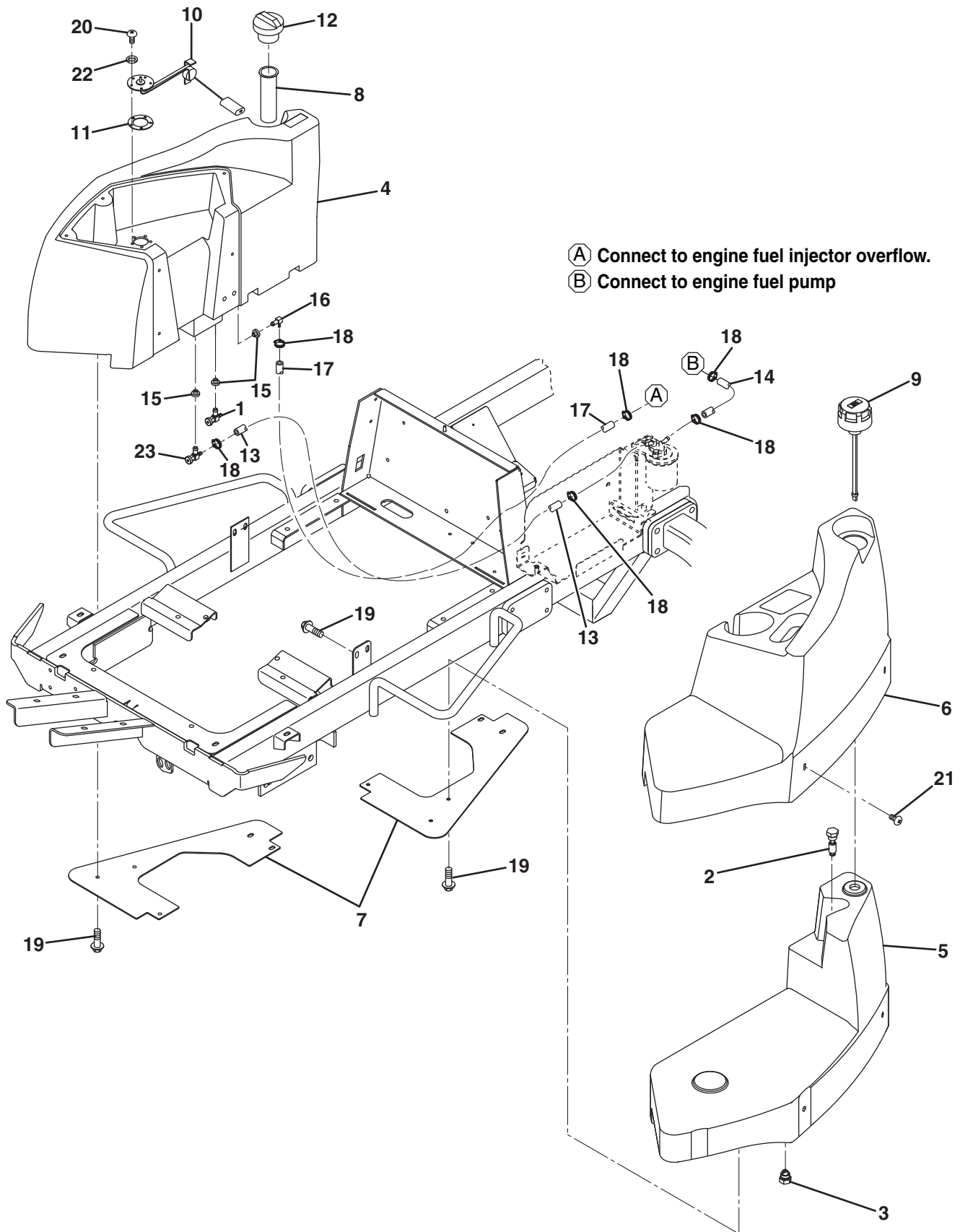
15.1 Pump Mounting



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810006	1	Pump, Traction	
	5003034	1	• Seal Kit	
	5003432	1	• Control Kit	
	5003433	1	• Shaft Seal Kit	
	5003434	1	• System Relief Kit	
	2810440	1	• Sleeve, Control Arm	
	2	1002154	1	Pump, 3 Section Gear
2	5003036	1	• Seal Kit	
	3	1002854	1	Driveshaft
3	554663	2	• Cross and Bearing Kit	
	4	3008819	1	Mount, Gear Pump
5	446154	2	Lockwasher, 1/2 Heavy	
6	443118	2	Nut, 1/2-13 Hex	
7	363485	3	Lockwasher, M10 Heavy	
8	362263	3	Screw, M10-1.25 x 20mm Hex Head	
9	444762	2	Locknut, 5/16-18 Center	
10	452008	4	Flat Washer, 3/8	
11	446142	2	Lockwasher, 3/8 Heavy	
12	445796	2	Nut, 3/8-16 Spirallock Flange	
13	400266	2	Screw, 3/8-16 x 1-1/2" Hex Head	
14	400410	2	Screw, 1/2-13 x 1-3/4" Hex Head	
15	400264	2	Screw, 3/8-16 x 1-1/4" hex Head	
16	2809907	1	Nut, M10 Spirallock Flange	
17	362743	1	O-Ring Seal	

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16.1 Fuel and Hydraulic Tanks

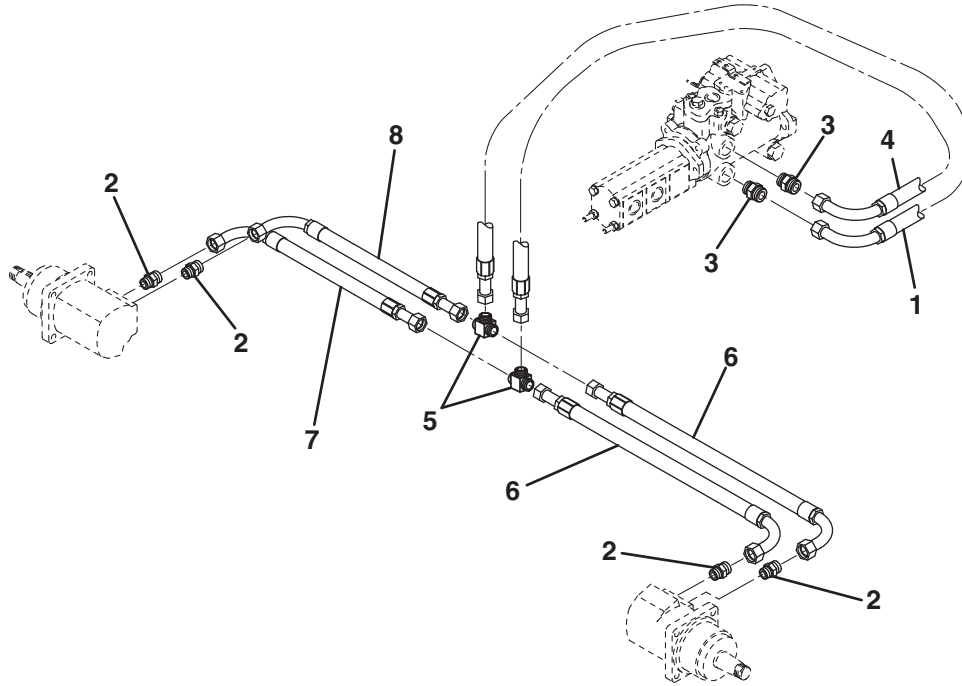


Item	Part No.	Qty.	Description	Serial Numbers/Notes	
1	132647	1	Valve, Shut Off	REFERENCE SW-9, See 46.1	
2	3001279	1	Switch, Float		
3	3002397	1	Plug, Magnetic		
	339899	1	• O-Ring		
4	3009204	1	Fuel Tank		
5	3005871	1	Hydraulic Tank		
6	3005872	1	Shell, Tank Cover		
7	3006243	2	Plate, Tank Mounting		
8	3009347	1	Strainer, Fuel Filler		
9	3006332	1	Breather Filter		
10	3006337	1	Fuel Sender		REFERENCE R-1, See 46.1
11	5003374	1	• Gasket		
12	2721806	1	Cap, Fuel Tank		
13	554748	1	Fuel Line, 5/16" I.D. Cut to 72 Inches		
14	554748	1	Fuel Line, 5/16" I.D. Cut to 18 Inches		
15	361117	3	Bushing, Fuel Tank		
16	361748	1	Valve, Overflow		
17	554752	1	Fuel Line, 3/16 I.D. Cut to 70 Inches		
18	366526	6	Clamp, Hose		
19	403769	14	Screw, 1/4-20 x 1/2" Hex Flange		
20	403910	5	Screw, #10-24 x 1/2" Truss Head		
21	404016	5	Screw, 1/4-20 x 5/8" Truss Head		
22	446118	5	Lockwasher, #10 Heavy		
23	2810702	1	Valve, Needle		
24	473142	2	Cable Tie4 .19 x 14-16 UV Black	Not Shown	
25	3007558	2	Clamp, Double Tube	Not Shown	

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17.1 2WD Traction Hydraulics

Serial No. 67945-1601 and Up
 Serial No. 67947-1601 and Up
 Serial No. 67951-1601 and Up

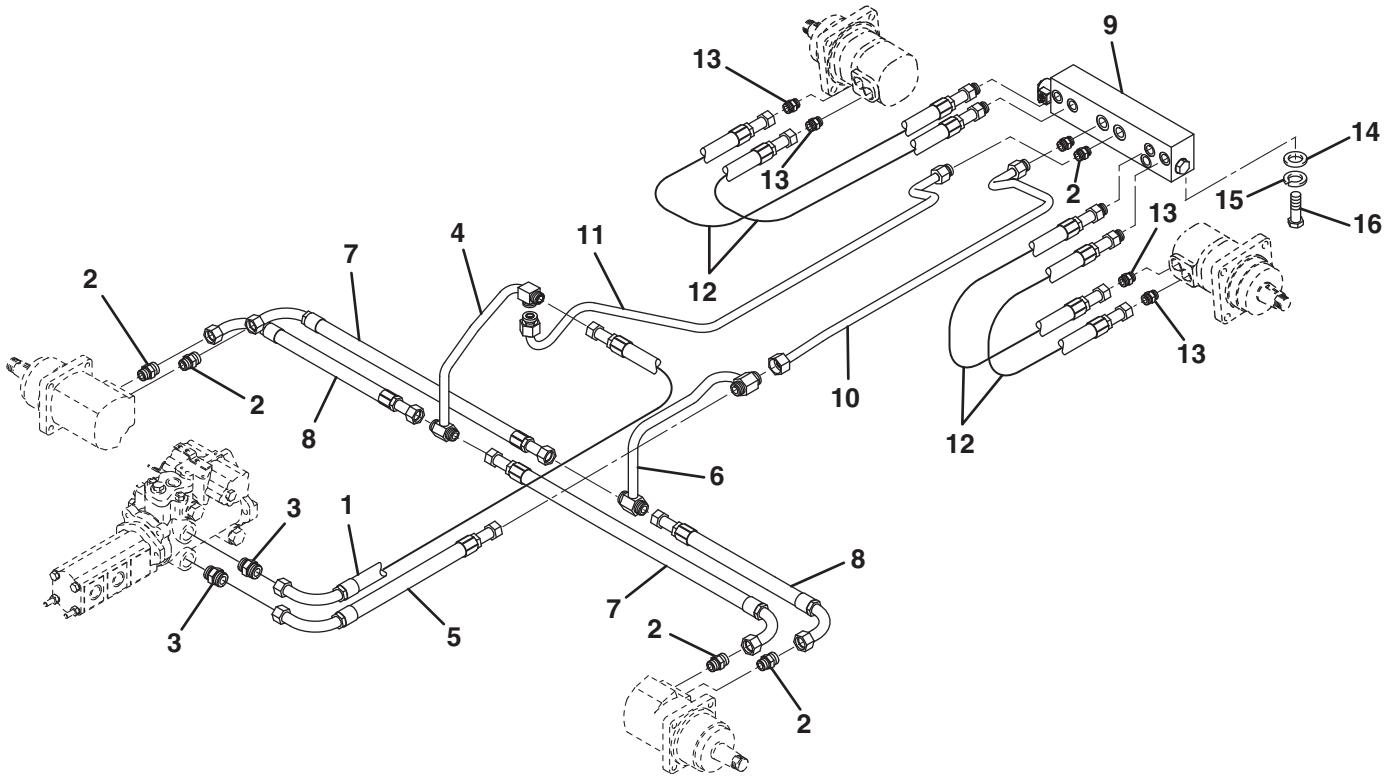


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003462	1	Hose, Pump to Upper Traction Tee	
2	339994	4	Adaptor, Straight	
3	339999	2	Adaptor, Straight	
4	1003463	1	Hose, Pump to Lower Traction Tee	
5	340339	2	Tee, Union	
6	1003442	2	Hose, Motor To Tee	
7	1003441	1	Hose, Lower Motor Port To Tee	
8	1003930	1	Hose, Upper Motor Port To Tee	

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18.1 4WD Traction Hydraulics

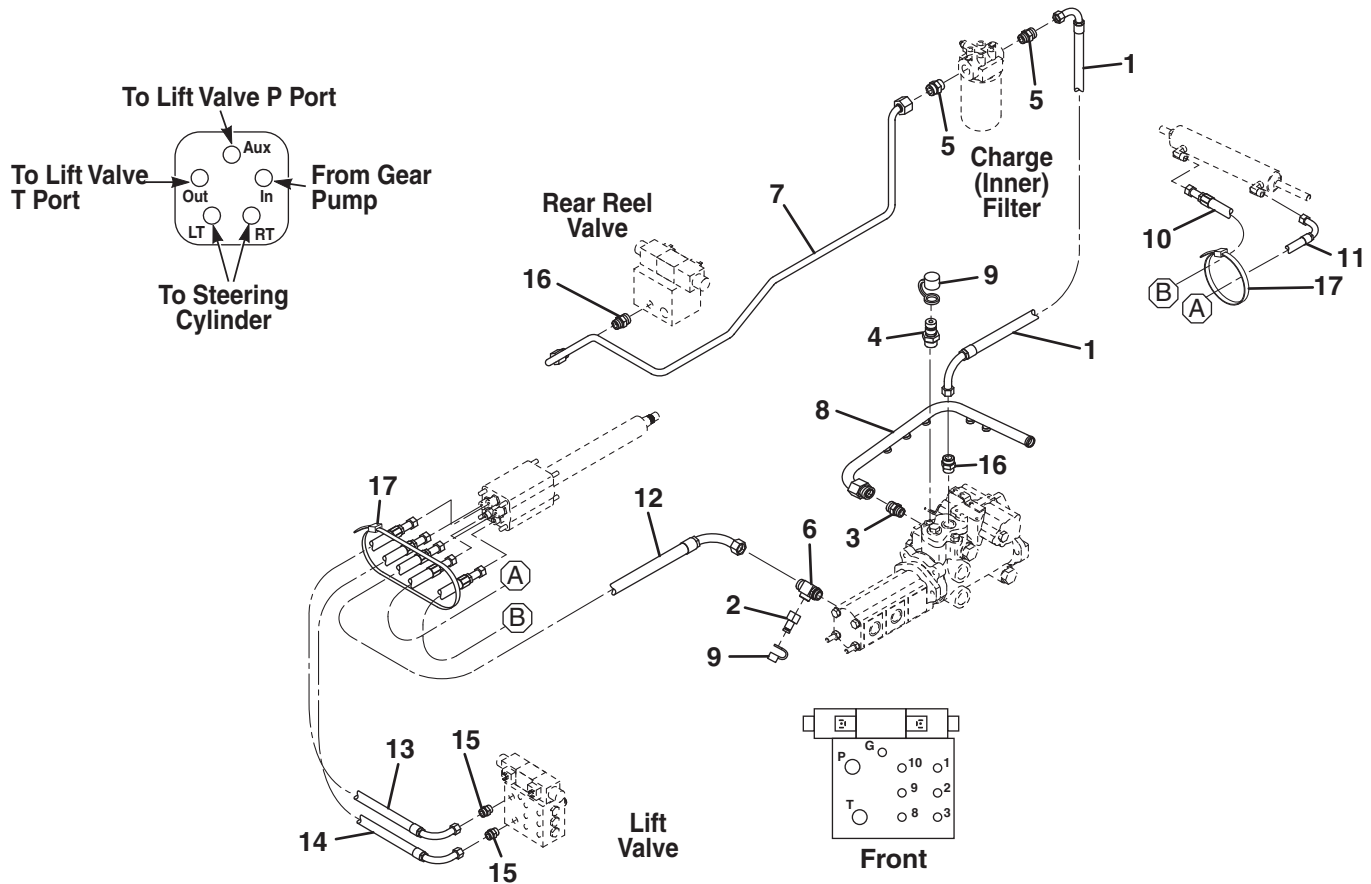
Serial No. 67946-1601 and Up
 Serial No. 67948-1601 and Up
 Serial No. 67949-1601 and Up
 Serial No. 67950-1601 and Up



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003440	1	Hose, Pump To Reverse 4WD Tee	See 43.1
2	339994	6	Adapter, Straight	
3	339999	2	Adapter, Straight	
4	1003457	1	Tube, Reverse 4WD Tee	
5	1003439	1	Hose, Pump To Forward 4WD Tee	
6	1003456	1	Tube, Forward 4WD Tee	
7	1003442	2	Hose, Tee To Wheel Motor	
8	1003441	2	Hose, Tee To Wheel Motor	
9	4135554	1	Valve, 4WD	
10	1003094	1	Tube, Forward 4WD Tee To Valve	
11	1003095	1	Tube, Reverse 4WD Tee To Valve	
12	1003455	4	Hose, 4WD Valve To Motors	
13	339989	4	Adapter, Straight	
14	400258	4	Screw, 3/8-16 x 3/4" Hex Head	
15	446142	4	Lockwasher, 3/8 Heavy	
16	452008	4	Flat Washer, 3/8	

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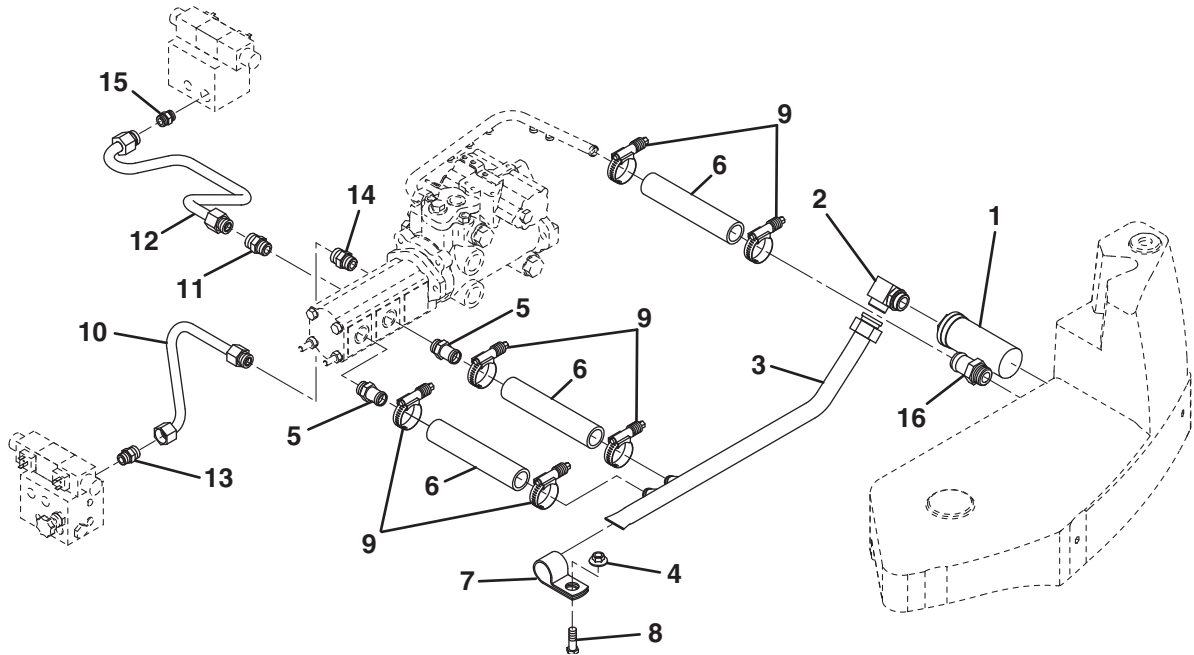
19.1 Charge Pressure and Steering Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003461	1	Hose, Charge Pressure Inlet	
2	364945	1	Fitting, Diagnostic	
3	339998	1	Adaptor, Straight	
4	365466	2	Fitting, Diagnostic	
5	339996	2	Adaptor, Straight	
6	340274	1	Adaptor, Tee	
7	2812272	1	Tube, Rear Reel Valve to Filter	Rear Reel Valve Port T
8	4113601	1	Tube, Case Drain	
9	363030	3	Cover, Dust	
10	1003342	1	Hose, LT Port To Steering Cylinder	
11	1003341	1	Hose, RT Port To Steering Cylinder	
12	1003334	1	Hose, Gear Pump To In Port	
13	1003339	1	Hose, Aux Port To Lift Valve P Port	
14	1003340	1	Hose, Out Port To Lift Valve T Port	
15	339985	2	Adaptor, Straight	
16	339989	2	Adaptor, Straight	
17	473142	2	Tie Wrap	

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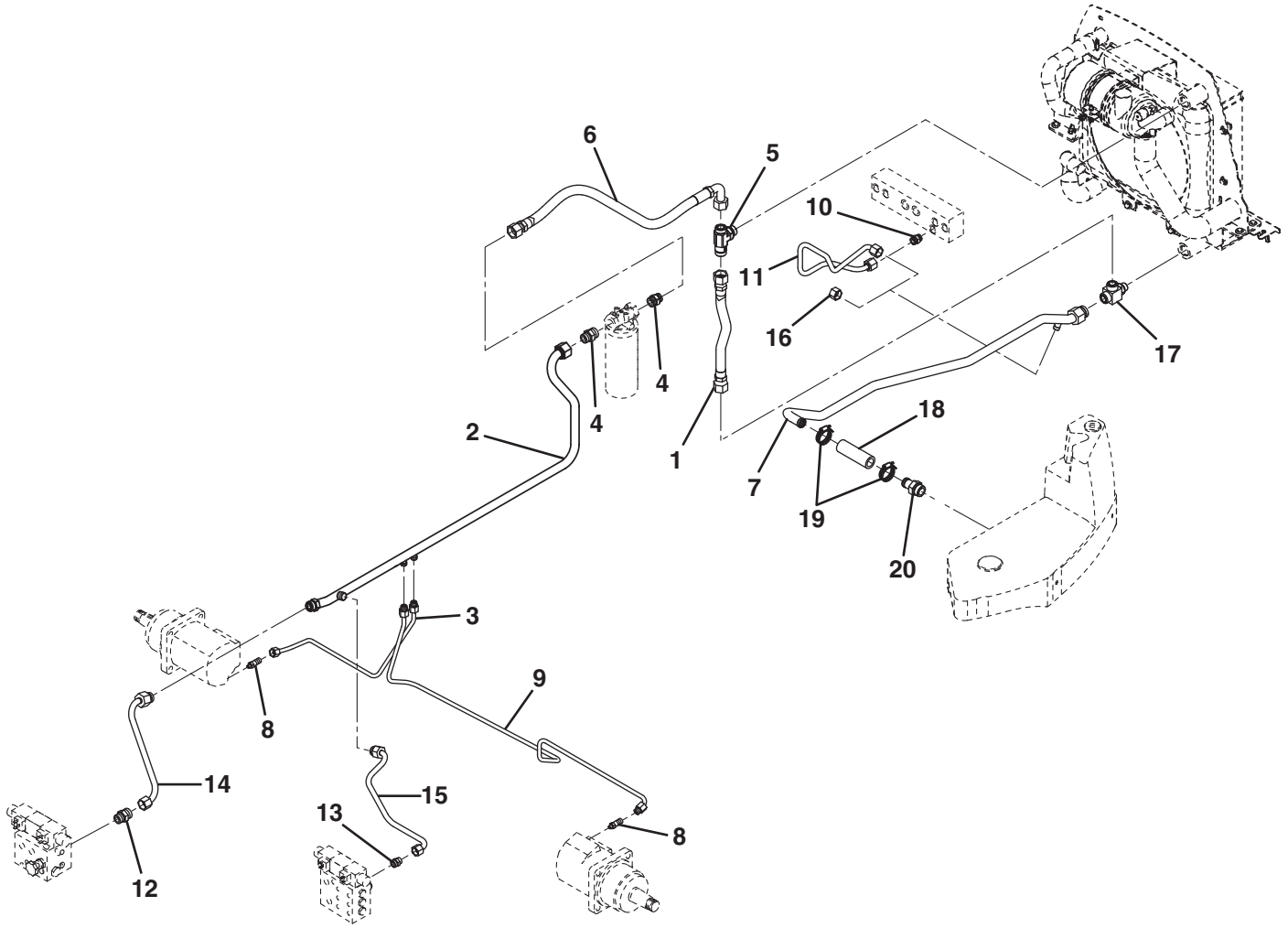
20.1 Gear Pump Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	365959	1	Strainer, Tank Mounted	
	362743	1	• O-Ring	
2	340090	1	Adapter, 90°	
3	1003992	1	Tube, Gear Pump Inlet	
4	445796	1	Nut, 3/8-16 Spirallock Flange	
5	3001296	2	Fitting, Beaded Insert	
6	4148857	3	Hose, Gear Pump Inlet	
7	364190	1	Clamp, 1-1/2 I.D.	
8	400264	1	Screw, 3/8-16 x 1-1/4" Hex Head	
9	3008673	6	Clamp, Constant Torque	
10	2810256	1	Hose, Pump To Front Reel Valve	Front Reel Valve Port P
11	339933	1	Connector, Straight	
12	1003284	1	Tube, Pump to Rear Reel Valve	Rear Reel Valve Port P
13	339990	1	Adaptor, Straight	
14	339989	1	Adaptor, Straight	
15	339994	1	Adaptor, Straight	
16	361689	1	Fitting, Barbed	

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21.1 Return Hydraulics

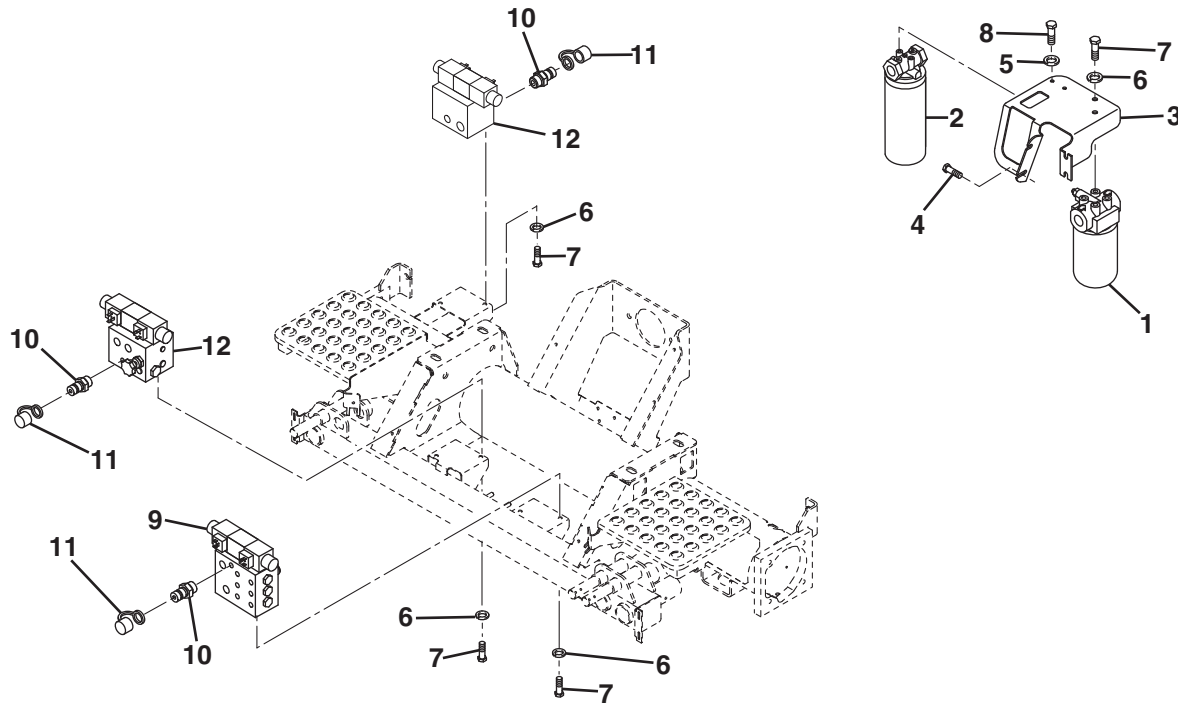


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4129656	1	Hose, Oil Cooler	
2	2812271	1	Tube, Drain	
3	1004312	1	Tube, Right Front Motor Drain	
4	339999	2	Adapter, Straight	
5	4123166	1	Check Valve, Tee Assembly	
6	4129642	1	Hose, Oil Cooler	
7	4121642	1	Tube, Return	
8	340007	2	Adapter, Straight	
9	1004311	1	Tube, Left Front Motor Drain	
10	340026	1	Adapter, 45°	4WD Units Only
11	4120536	1	Hose, 4WD Valve Drain	4WD Units Only
12	339989	2	Connector, Straight	
13	339993	1	Adapter, Straight	
14	2812275	1	Tube, Front Reel Valve Return	Front Reel Valve Port T
15	2812273	1	Tube, Lift Valve Return	Lift Valve Port T
16	339921	1	Cap	2WD Units Only
17	340267	1	Tee, Straight Thread Run	
18	4124647	1	Hose	
19	3008673	2	Clamp, Constant Torque	
20	361689	1	Fitting, Straight Barbed Hose	

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LF 3400 / LF 3800

22.1 Hydraulic Valve & Filter Mounting

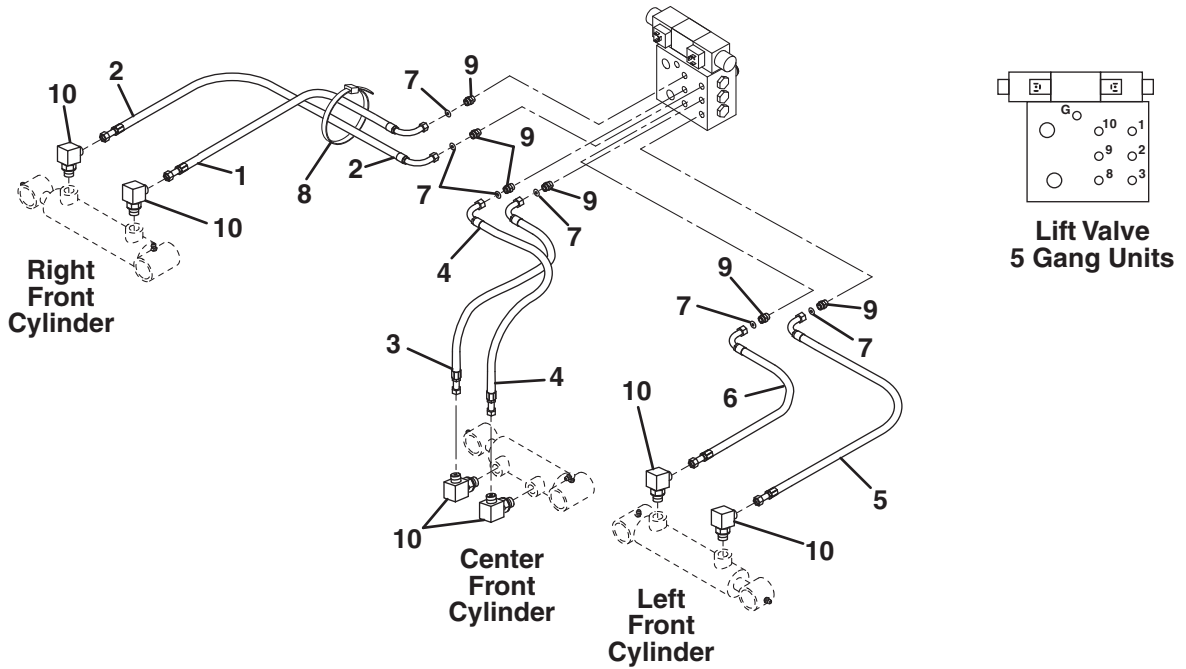


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123015	1	Charge Filter	REFERENCE SW-1, See 46.1
	556417	1	• Head	
	2811255	1	• Oil Filter Cartridge	
	556419	1	• Charge Pressure Switch	
2	132704	1	Return Filter	
	557772	1	• Oil Filter Cartridge	
3	3007290	1	Bracket, Filter	
4	409811	4	Screw, 5/16-18 x 5/8" Thread Cutting	
5	446130	2	Lockwasher, 1/4 Heavy	
6	446142	8	Lockwasher, 3/8 Heavy	
7	400258	8	Screw, 3/8-16 x 3/4" Hex Head	
8	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
9	4135566	1	Lift Valve	See 42.1
10	365466	3	Fitting, Diagnostic	
11	363030	3	Cover, Dust	
12	4135578	2	Reel Valve	See 39.1

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23.1 Front Lift Hydraulics

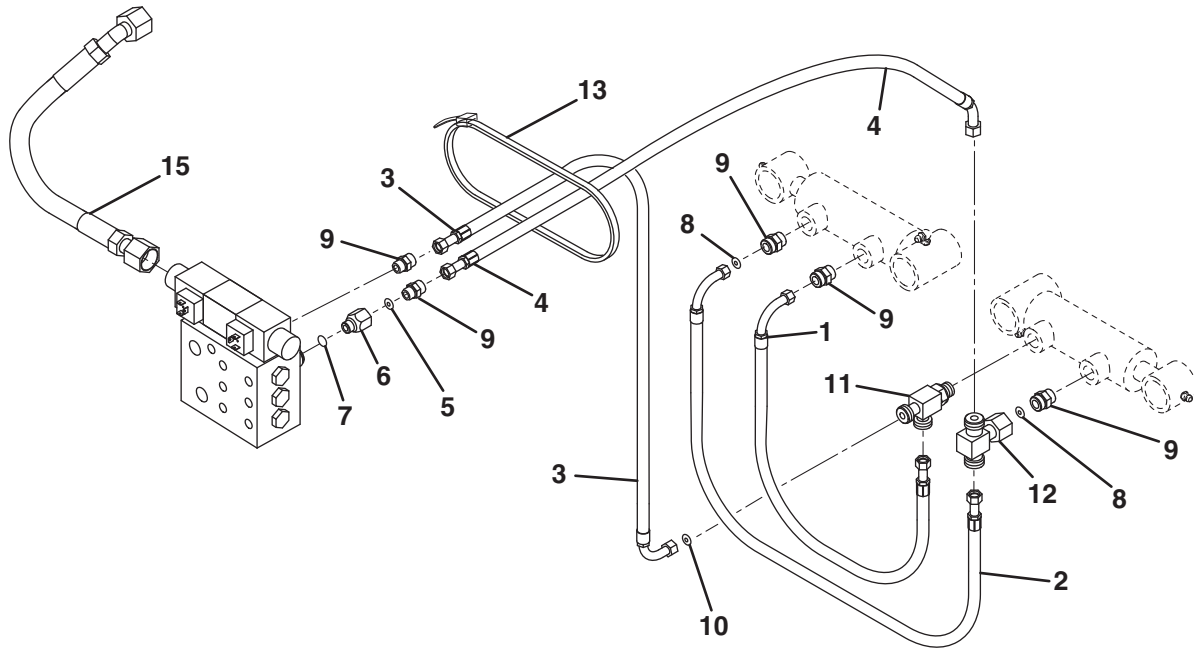
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003344	1	Hose, Lift Valve to Right Front	Lift Valve Port 10
2	1003343	1	Hose, Right Front to Lift Valve	Lift Valve Port 1
3	1003345	1	Hose, Center to Lift Valve	Lift Valve Port 2
4	1003346	1	Hose, Center to Lift Valve	Lift Valve Port 9
5	1003347	1	Hose, Left Front to Lift Valve	Lift Valve Port 3
6	1003348	1	Hose, Lift Valve to Left Front	Lift Valve Port 8
7	3000953	6	Disk, 0.040 Orifice	
8	473142	1	Tie Wrap	
9	339979	6	Adaptor, Straight	
10	340057	6	Adaptor, 90°	

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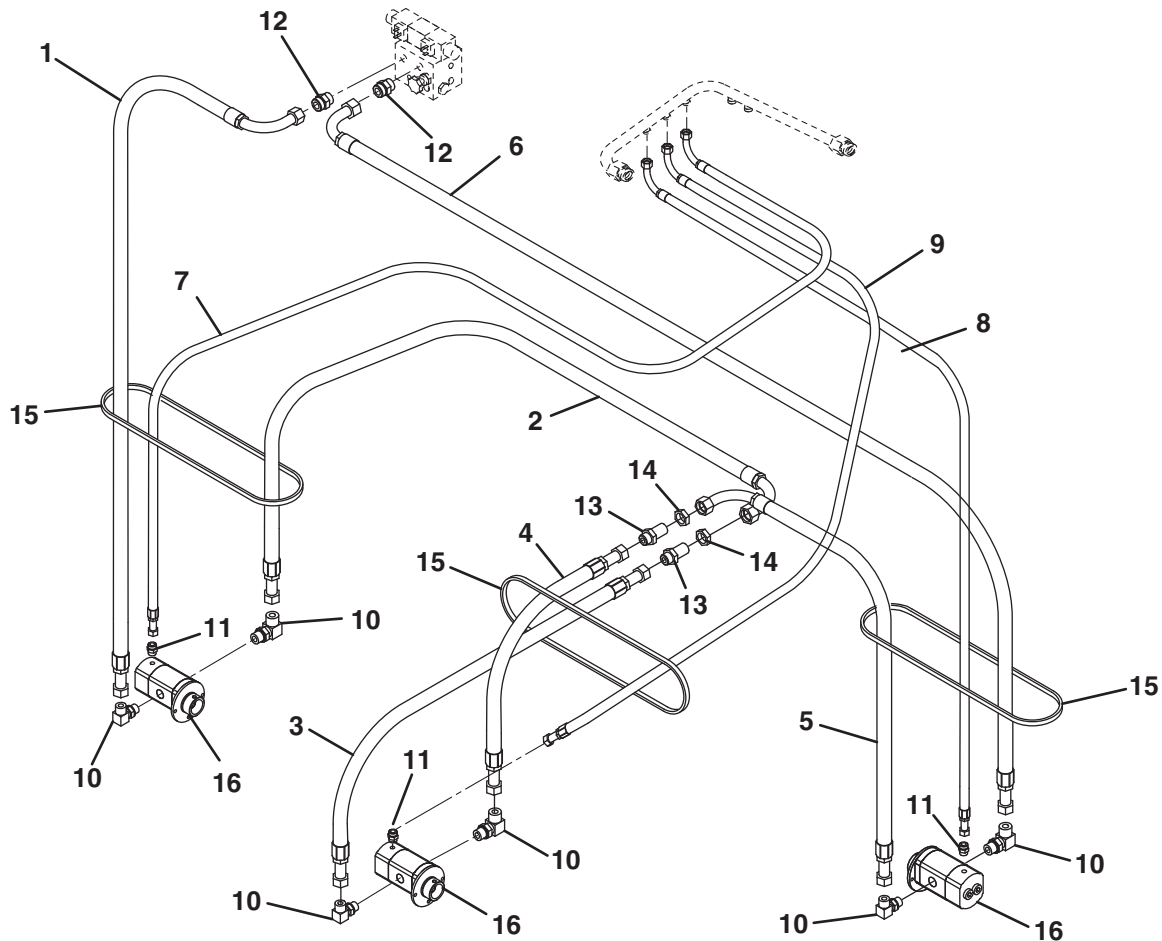
24.1 Rear Lift Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003352	1	Hose, Left Rear to Right Rear	Base Ports
2	1003351	1	Hose, Left Rear to Right Rear	Rod Ports
3	1003350	1	Hose, Lift Valve to Inside Tee	Lift Valve Port 6
4	1003349	1	Hose, Lift Valve to Outside Tee	Lift Valve Port 4
5	353190	1	Plate, 0.026 Orifice	
6	337317	1	Fitting, One way Restrictor	
7	339897	1	O-Ring	
8	3000953	2	Disk, 0.040 Orifice	
9	339979	5	Adaptor, Straight	
10	3008392	1	Disk, 0.052 Orifice	
11	340263	1	Adaptor, Tee	Base Port
12	340143	1	Adaptor, Tee	Rod Port
13	473142	1	Tie Wrap	

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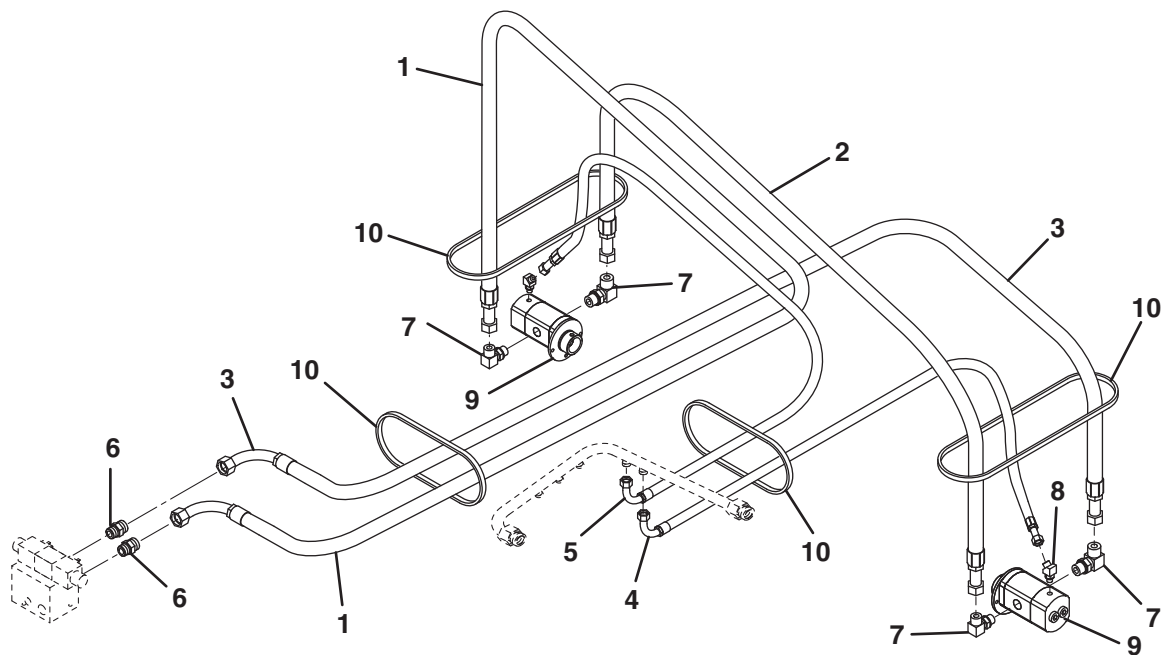
25.1 Front Reel Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003337	1	Hose, Valve to Right Front Motor	Front Reel Valve Port A
2	1003444	1	Hose, Right Front to Bulkhead	
3	1003445	1	Hose, Bulkhead to Center Motor	
4	1003446	1	Hose, Center Motor to Bulkhead	
5	1003447	1	Hose, Bulkhead to Left Front Motor	
6	1003338	1	Hose, Left Front Motor to Valve	Front Reel Valve Port B
7	2812241	1	Hose, Right Front Motor Drain	
8	2812242	1	Hose, Left Front Motor Drain	
9	1003451	1	Hose, Center Motor Drain	
10	340070	6	Adapter, 90°	
11	339972	3	Adapter, Straight	
12	339989	2	Adapter, Straight	
13	340241	2	Adapter, Union Bulkhead	
14	339963	2	Locknut, Bulkhead	
15	473142	5	Tie Wrap	
16	2822503	3	Motor, 5" Diameter Reel	LF 3400 See 43.1
16	1002620	3	Motor, 7" Diameter Reel	LF 3800 and LF 3407 See 44.1

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26.1 Rear Reel Hydraulics

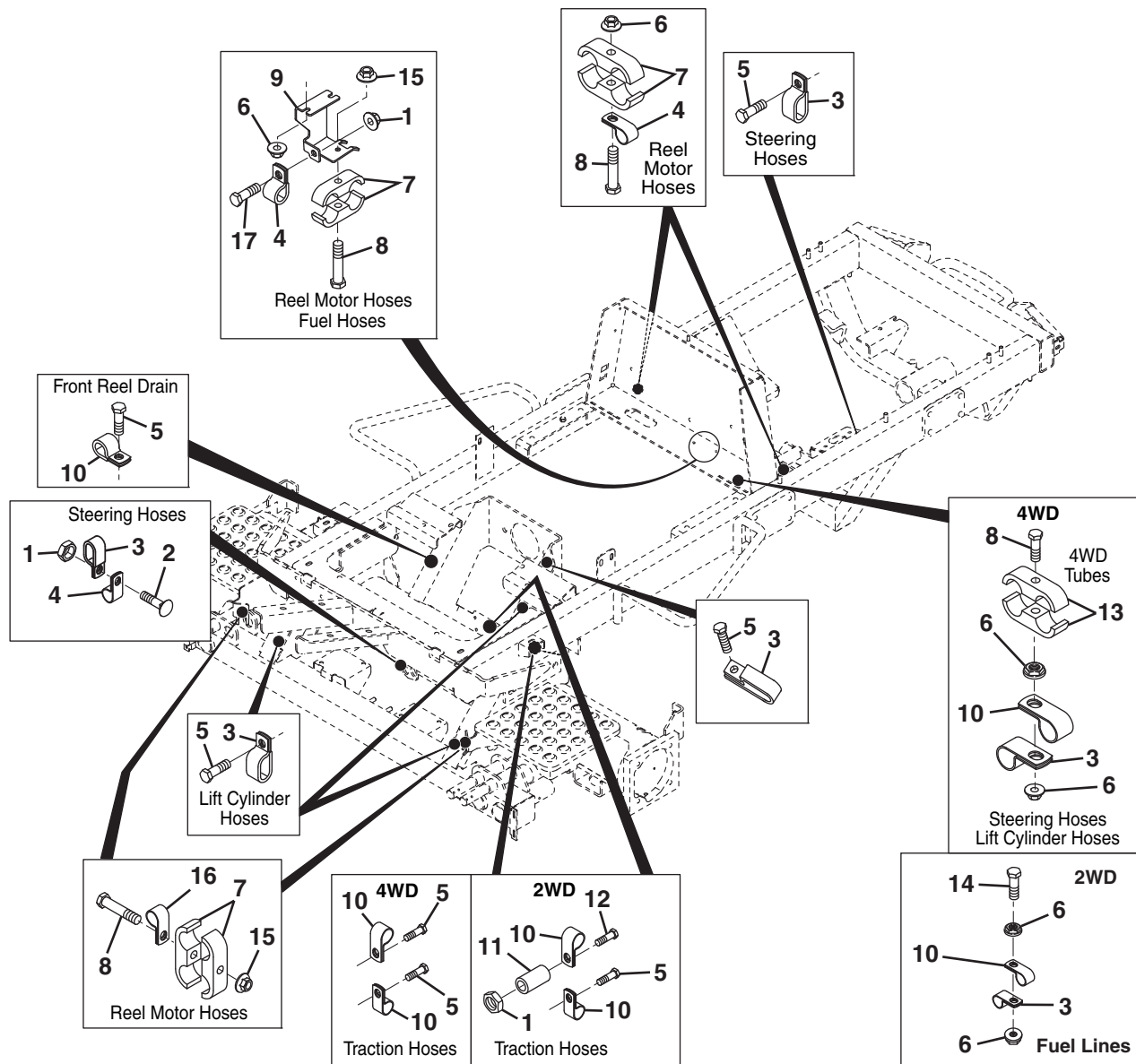


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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1003338	1	Hose, Valve to Right Rear Motor	
2	1003443	1	Hose, Right Rear to Left Rear Motor	
3	1003335	1	Hose, Left Rear Motor to Valve	
4	1003449	1	Hose, Left Rear Drain	
5	1003448	1	Hose, Right Rear Drain	
6	339989	2	Adapter, Straight	
7	340070	4	Adapter, 90°	
8	339972	2	Adapter, Straight	
9	2822503	2	Motor, 5" Diameter Reel	LF 3400 See 43.1
9	1002620	2	Motor, 7" Diameter Reel	LF 3800 and LF 3407 See 44.1
10	473142	4	Tie Wrap	

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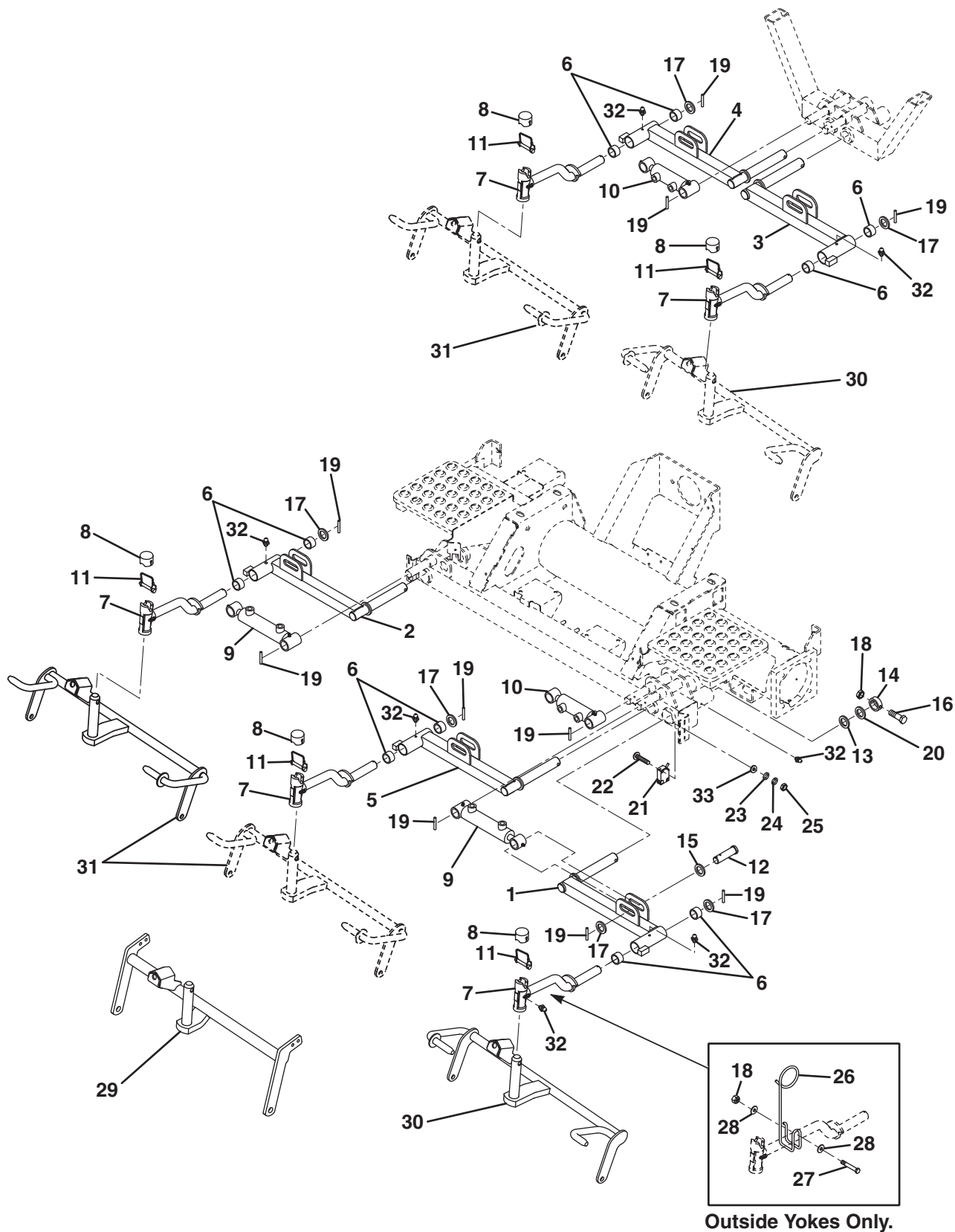
27.1 Hydraulic Clamps



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	445795	AR	Nut, 5/16-18 Spirallock Flange	
2	441614	1	Carriage Bolt, 5/16-18 x1"	
3	3007558	AR	Clamp, Double Tube	
4	345666	AR	Clamp, 1/2" I.D.	
5	409811	AR	Screw, 5/16-18 x 5/8" Thread Cutting	
6	445794	AR	Locknut, 1/4-20 Spirallock Flange	
7	3003473	AR	Clamp, Double Tube	
8	400122	AR	Screw, 1/4-20 x 2-1/4" Hex Head	
9	3007567	1	Bracket, Clamp	
10	365566	AR	Clamp, 1-1/4" I.D.	
11	361831	1	Tube	2WD Only
12	400196	1	Screw, 5/16-18 x 2" Hex Head	2WD Only
13	367186	1	Clamp, Double Tube	4WD Only
14	400112	1	Screw, 1/4-20 x 1" Hex Head	2WD
15	444708	AR	Locknut, 1/4-20 Center	
16	360970	AR	Clamp	
17	400182	1	Screw, 5/16-18 x 5/8"	

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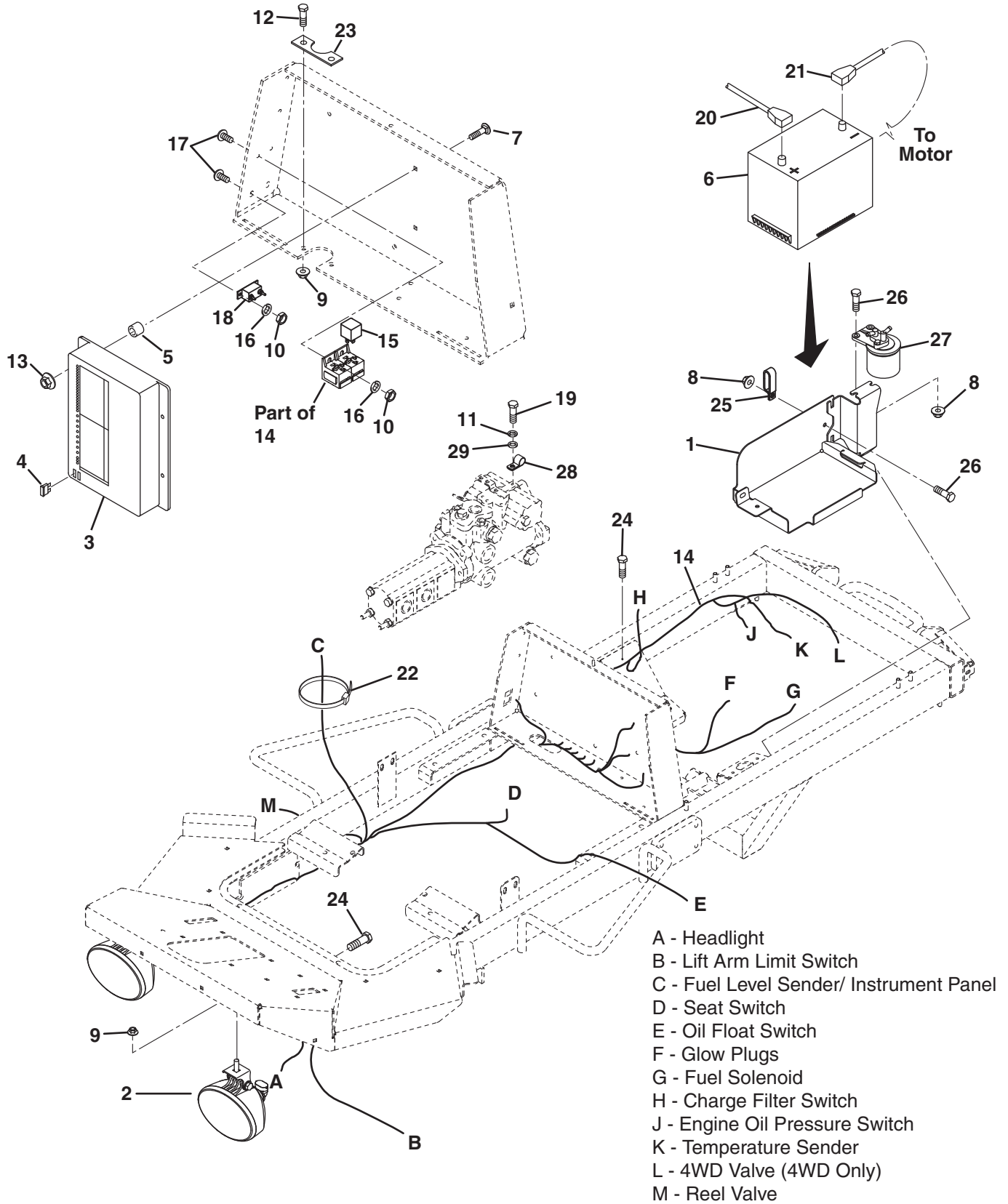
28.1 Lift Arms



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4170623	1	Left Front Lift Arm	
2	4170624	1	Right Front Lift Arm	
3	4170626	1	Left Rear Lift Arm	
4	4170627	1	Right Rear Lift Arm	
5	4170625	1	Center Lift Arm	
6	3006539	10	• Bushing	2 Per Lift Arm
7	1002498	5	Yoke, Pivot	
8	3008432	5	Cap, Swivel Housing	
9	4137465	2	Lift Cylinder, Left and Right Front	
10	4137466	3	Lift Cylinder, Center and Rear	
	5003441	1	• Seal Kit - Gold Star	Used on Gold Star Cylinders Only
	5003658	1	• Seal Kit - HDM	Used on HDM Cylinders Only
11	3007798	5	Lock Pin	
12	3007989	5	Pin, Cylinder	
13	362824	5	Spacer, Lift Arm	
14	364248	5	Collar	
15	455004	10	Flat Washer, 1	
16	400272	5	Screw, 3/8-16 x 2-1/4" Hex Head	
17	2500477	5	Machinery Bushing	
18	444762	7	Locknut, 7/16-18 Center	
19	461409	15	Roll Pin, 3/16x x1-3/4"	
20	3009490	5	Wave Washer	
21	4125831	2	Switch, Proximity	REFERENCE SW-14 and SW-16, See 46.1
22	800440	4	Screw, #4-40 x 1" Truss Head	
23	308404	4	Flat Washer, #4	
24	446102	4	Lockwasher, #4	
25	444302	4	Nut, #4-40 Hex	
26	3007575	2	Support, Hose	
27	400276	2	Screw, 3/8-16 x 2-1/2" Hex Head	
28	358794	4	Flat Washer, 3/8	
29	1003361	5	Lift Yoke	LF 3800
30	1003359	2	Lift Yoke, Left Side	LF 3400
31	1003360	3	Lift Yoke, Right Side and Center	LF 3400
32	471214	15	Grease Fitting	
33	453004	4	Washer, Flat	

> Change from previous revision

29.1 Wire Harness and Controller Box

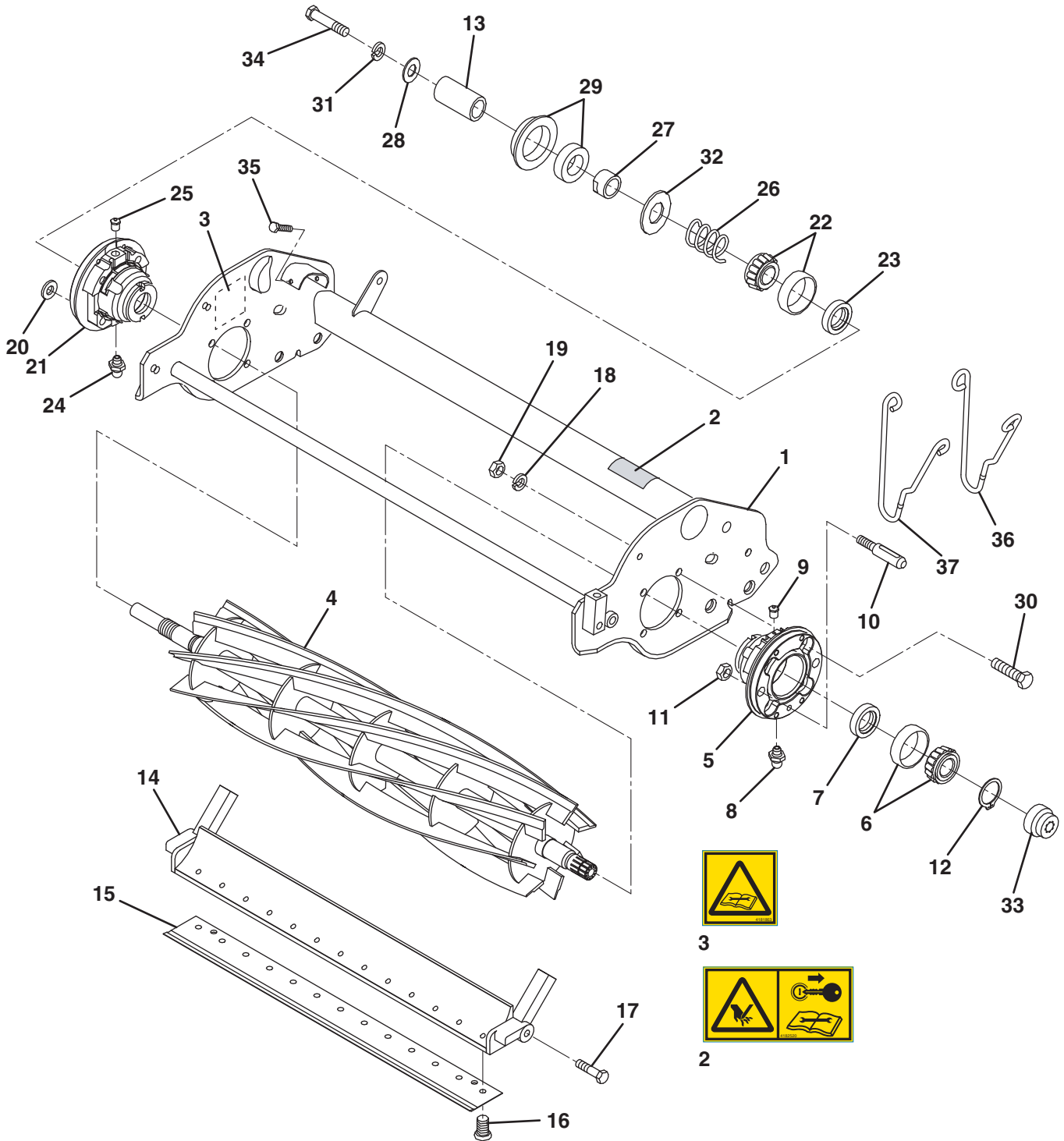


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	-----	1	Tray, Battery	See 7.1
2	4122840	2	Headlight	
	4123183	1	• Bulb	REFERENCE L-1 and L-2, See 46.1
3	4122841	1	Controller	REFERENCE U-6, See 46.1
4	5003282	2	• Fuse, 20 Amp	REFERENCE F-1 & F-2, See 46.1
5	367631	4	Spacer	
6	366931	1	Battery	REFERENCE B-1, See 46.1
7	441668	4	Screw, 5/16-18 x 1-1/4" Hex Head	
8	445795	5	Nut, 5/16-18 Spirallock Flange	
9	445796	5	Nut, 3/8-16 Spirallock Flange	
10	444310	4	Nut, #10-24 Hex	
11	446128	1	Lockwasher, 1/4	
12	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
13	444708	1	Locknut 1/4-20 Center	
14	4135545	1	Body Wire Harness	
15	4126082	2	• Relay-SPDT With Diode	REFERENCE K-10 and K-11, See 46.1
16	446118	4	Lockwasher, #10	
17	403910	4	Screw, #10-24 x 1/2" Truss Head	
18	361439	1	Circuit Breaker, 12V 50A	REFERENCE CB-1, See 46.1
19	400104	1	Screw, 1/4-20 x 1/2" Hex Head	
20	3007777	1	Cable, Positive Battery	
21	2810213	1	Cable, Negative Battery	
22	473142	1	Cable Tie	
23	3009251	1	Tab, Wire Harness	
24	409804	3	Screw, #10-32 x 1/2" Thread Cutting	
25	3007558	1	Clamp, Double Tube	
26	400188	3	Screw, 5/16-18 x 1" Hex Head	
27	5001189	1	Fuel Filter Assembly	Included With Engine
	2500809	1	• Fuel Filter Element	
	2501023	1	• Filter Cover	
	2501024	1	• Filter Breather Plug	
	2501027	1	• O-Ring	
	2501026	1	• Form, Mark	
28	345666	1	Clamp, 1/2" I.D.	
29	453023	1	Flat Washer, 1/4	
30				

> Change from previous revision

30.1 Five Inch Reel Assembly

LF 3400, LF 3400 Turbo



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003087	1	Frame, Reel	
2	4182520	2	• Decal, Danger	
3	4181863	1	• Decal, Warning	
4	5003053	1	7 Blade Left Hand Reel	
4	5003054	1	7 Blade Right Hand Reel	
5	1004786	1	Bearing Housing	
6	500534	1	• Bearing, Cup and Cone	
7	336962	1	• Seal, Grease	
8	471214	1	• Grease Fitting	
9	471242	1	• Vent Fitting	
10	3010296	2	• Pin, Motor Mounting	
11	444708	2	• Locknut, 1/4-20 Center	
12	458013	1	Snap Ring	
13	367164	1	Spacer	
14	5000415	1	Bedknife Backing	
15	5003150	1	Bedknife, Low Profile Fairway	Standard
15	503460	1	Bedknife, Heavy Section	Optional
16	3009138	13	Screw, 1/4-20 x 1/2" Flat Head	
17	315298	2	Bolt, 7/16 x 3/4"	
18	446136	8	Lockwasher, 5/16 Heavy	
19	443106	8	Nut, 5/16-18 Hex	
20	453009	4	Flat Washer, 5/16	
21	1000480	1	Bearing Housing	
	2000060	1	• Housing	
22	500534	1	• Bearing, Cup and Cone	
23	336962	1	• Seal, Grease	
24	471214	1	• Grease Fitting	
25	471240	1	• Vent Fitting	
26	5002151	1	Spring, Compression	
27	364900	1	Nut, Reel	
28	453011	1	Flat Washer, 3/8	
29	163892	1	Seal	
30	400192	8	Screw, 5/16-18 x 1-1/2" Hex Head	
31	446142	4	Lockwasher, 3/8 Heavy	
32	304745	1	Washer	
33	3001720	1	Coupler, Reel Motor	
34	400294	1	Screw, 3/8-24 x 1" Hex Head	
35	412503	4	Screw, 3/8-16 x 1-1/4" Square Head	
36	2810165	1	Clip, Motor	
37	2810166	1	Clip, Motor	

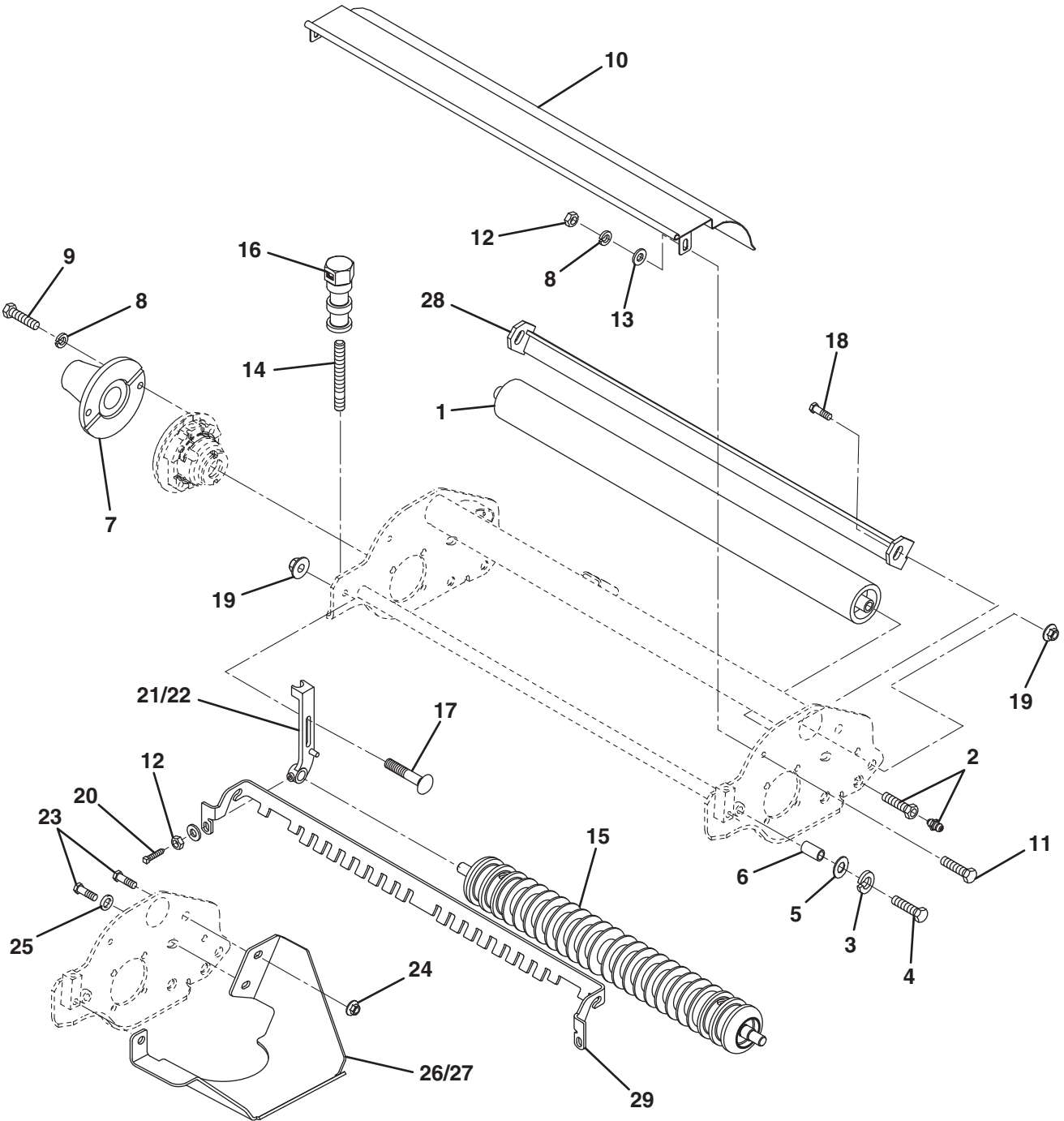
> Change from previous revision

LF 3400 / LF 3800

Serial No. All

31.1 Five Inch Reel Assembly

LF 3400, LF 3400 Turbo

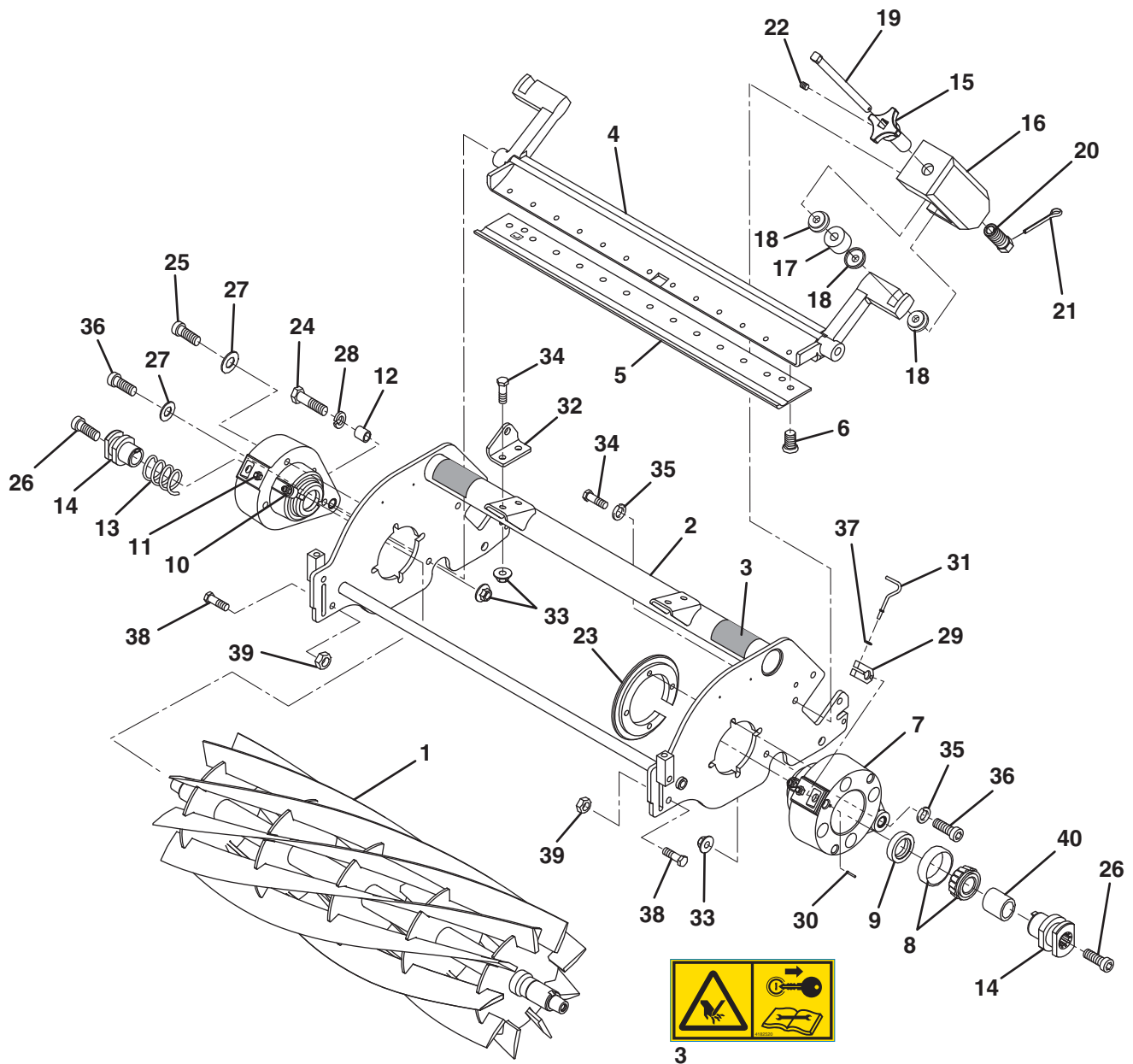


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000770	1	Rear Roller	See 36.1
2	1002224	2	Zerk Bolt	
3	446142	2	Lockwasher, 3/8 Heavy	
4	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
5	453011	2	Flat Washer, 3/8	
6	345510	2	Spacer	
7	2000065	1	Casting, Counterweight	
8	446130	4	Lockwasher, 1/4 Heavy	
9	400110	2	Screw, 1/4-20 x 7/8" Hex Head	
10	2810043	1	Shield, Reel	
11	403782	1	Screw, 1/4-20 x 3/4" Truss Head	
12	443102	4	Nut, 1/4-20 Hex	
13	453023	4	Flat Washer, 1/4	
14	343616	2	Stud	
15	123268	1	Front Roller	See 35.1
16	3005692	2	Knob, Front Roller Adjusting	
17	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
18	400186	2	Screw, 5/16-18 x 7/8" Hex Head	
19	445795	4	Locknut, 5/16-18 Hex	
20	352737	2	Screw, 1/4-20 x 7/8" Square Head	
21	3008438	1	Roller Bracket	
22	3008439	1	Roller Bracket	
23	400188	2	Screw, 5/16-18 x 1" Hex Head	Front Wing Reels Only
24	447795	2	Nut, 5/16-18 Spiralock Flange	Front Wing Reels Only
25	452006	1	Flat Washer, 5/16	Front Wing Reels Only
26	3008199	1	Skid, Left	Left Front Reel Only
27	3008200	1	Skid, Right	Right Front Reel Only
28	338735	1	Scraper, Rear Roller	
29	391202	1	Front Roller Scraper	

> Change from previous revision

32.1 Seven Inch Reel Assembly

LF 3800 and LF 3407

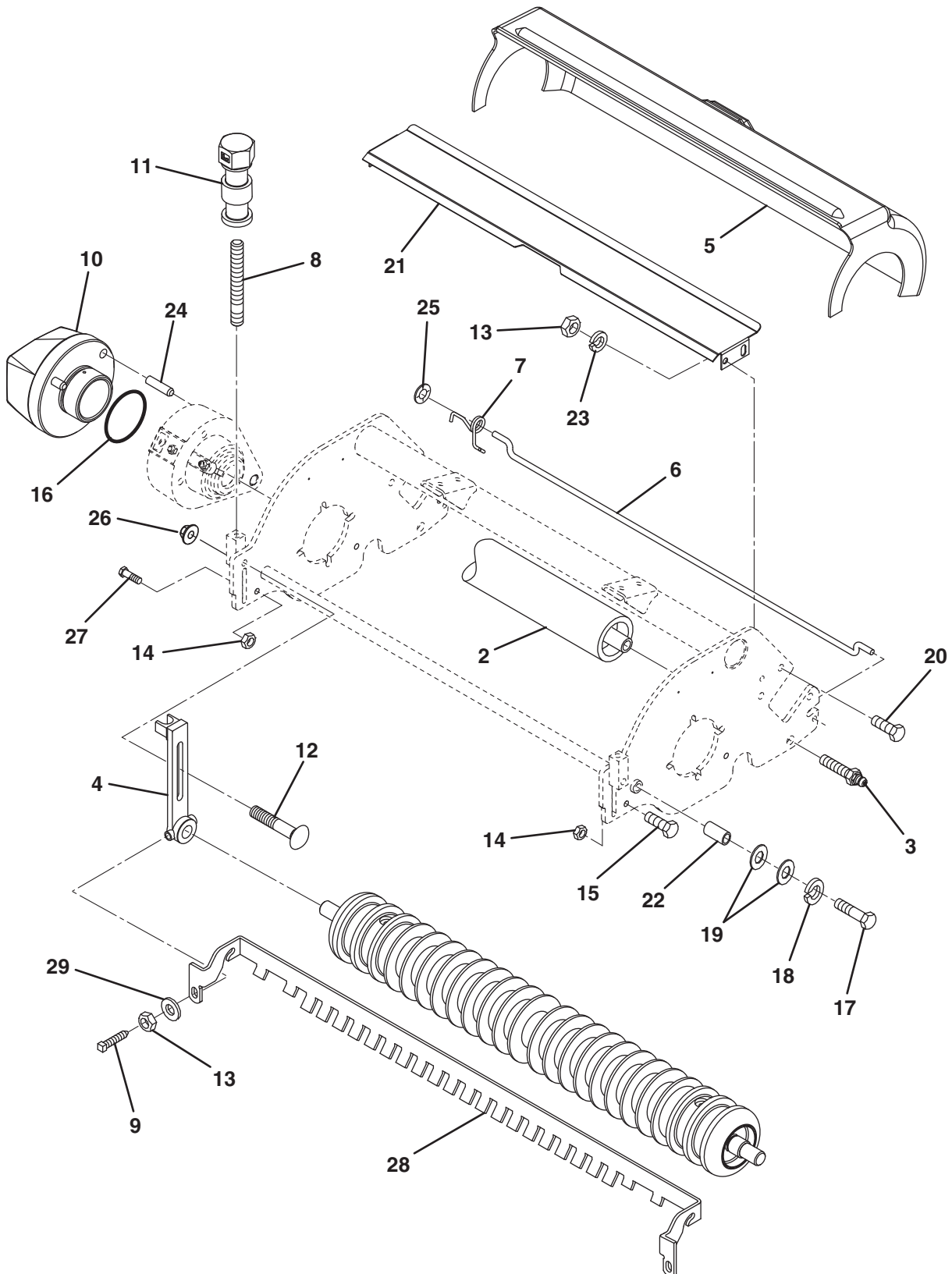


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810472	1	Reel, 11 Blade	Used on 67848
1	2810471	1	Reel, 9 Blade	Used on 67858
2	5002609	1	Frame, 7" Reel	
3	4182520	2	• Decal, Danger	
4	2811399	1	Bedknife Backing Assembly	
5	503460	1	• Bedknife	Standard
6	3009138	13	• Screw, 1/4-20 x 1/2" Flat Head	
7	1002811	2	Bearing Housing	
8	5002477	2	• Bearing Cup and Cone	
9	3006030	2	• Seal	
10	471214	2	• Grease Fitting	
11	471242	2	• Vent Fitting	
12	2500759	2	• Bushing	
13	3004734	1	Spring, Compression	
14	3010046	2	Coupler	
	1002532	2	Bedknife Adjuster	
15	2000125	1	• Knob	
16	3004795	1	• Housing	
17	3010470	1	• Spring, Urethane	
18	3009892	3	• Spacer, Cup	
19	3010472	1	• Rod	
20	3010471	1	• Bolt, Special	
21	461357	1	• Roll Pin, 1/8 x 5/8"	
22	422511	1	• Set Screw, 5/16-18 x 3/8"	
23	3005210	2	Retaining Ring	
24	365501	2	Bolt, Special	
25	434049	8	Screw, 5/16-18 x 2" Socket Head	
26	434003	2	Screw, 5/16-18 x 1" Socket Head	
27	362643	8	Spacer	
28	454017	2	Spring Washer	
29	4130092	2	Block, Clamp	
30	461419	2	Spring Pin, 1/8 x 3/8"	
31	3006028	2	Rod	
32	3008601	1	Bracket, Spring	
33	445795	2	Nut, 5/16-18 Spirallock Flange	
34	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
35	446136	6	Lockwasher, 5/16	
36	434036	2	Screw, 5/16-18 x 1-1/4" Socket Head	
37	455066	2	Washer	
38	400182	2	Bolt, 5/16-18 x 5/8 " Hex Head	
39	443106	2	Nut, 5/16-18 Hex	
40	3004800	1	Spacer, Reel	

> Change from previous revision

33.1 Seven Inch Reel Assembly

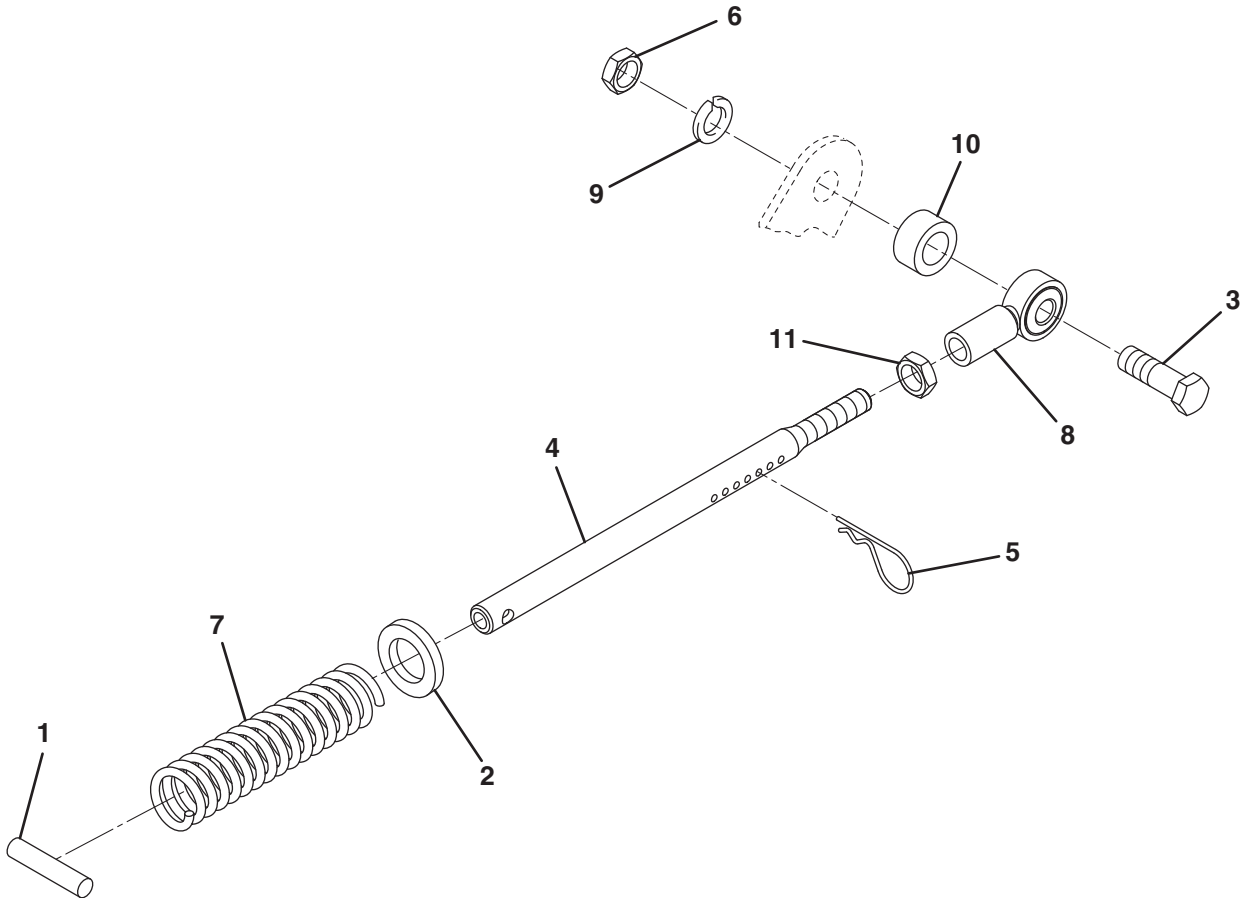
LF 3800 and LF 3407



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123268	1	Front Roller	See 35.1
2	1002446	1	Rear Roller, 24"	Serial No. 67848-1601 ~ 1899,See 37.1
2	1003728	1	Rear Roller, 22"	Serial No. 67848-1900 and Up,See 37.1
2	1003728	1	Rear Roller, 22"	Serial No. 67858-1601 and Up,See 37.1
3	1002226	2	Zerk Bolt	
4	3004738	2	Front Roller Adjuster	
5	3005209	1	Shield	
6	3005316	1	Scraper, 24" Rear Roller	Serial No. 67848-1601 ~ 1899
6	3009280	1	Scraper, 22" Rear Roller	Serial No. 67848-1900 and Up
6	3009280	1	Scraper, 22" Rear Roller	Serial No. 67858-1601 and Up,
7	3005267	1	Spring, 24" Rear Roller Torsion	Serial No. 67848-1601 ~ 1899
7	3009281	1	Spring, 22" Rear Roller Torsion	Serial No. 67848-1900 and Up
7	3009281	1	Spring, 22" Rear Roller Torsion	Serial No. 67858-1601 and Up,
8	343616	2	Stud	
9	352737	2	Screw, 1/4-20 x 7/8" Square Head	
10	2000135	1	Counter Balance	
11	3005692	2	Knob, Roller Adjusting	
12	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
13	443102	4	Nut, 1/4-20 Hex	
14	443106	2	Nut, 5/16-18 Hex	
15	446136	2	Lockwasher, 3/16 Heavy	
16	3006021	1	O-Ring	
17	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
18	446142	2	Lockwasher, 3/8 Heavy	
19	453011	4	Flat Washer, 3/8	
20	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
21	3006248	1	Deflector	
22	3006290	2	Bushing	
23	453023	2	Flat Washer, 1/4	
24	3006022	2	Pin	
25	445525	2	Palnut, 1/4	
26	445795	2	Nut, 5/16-18 Spiralock Flange	
27	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
28	3006263	1	Scraper, Front Roller	
29	453023	4	Flat Washer, 1/4	

> Change from previous revision

34.1 Down Pressure Spring

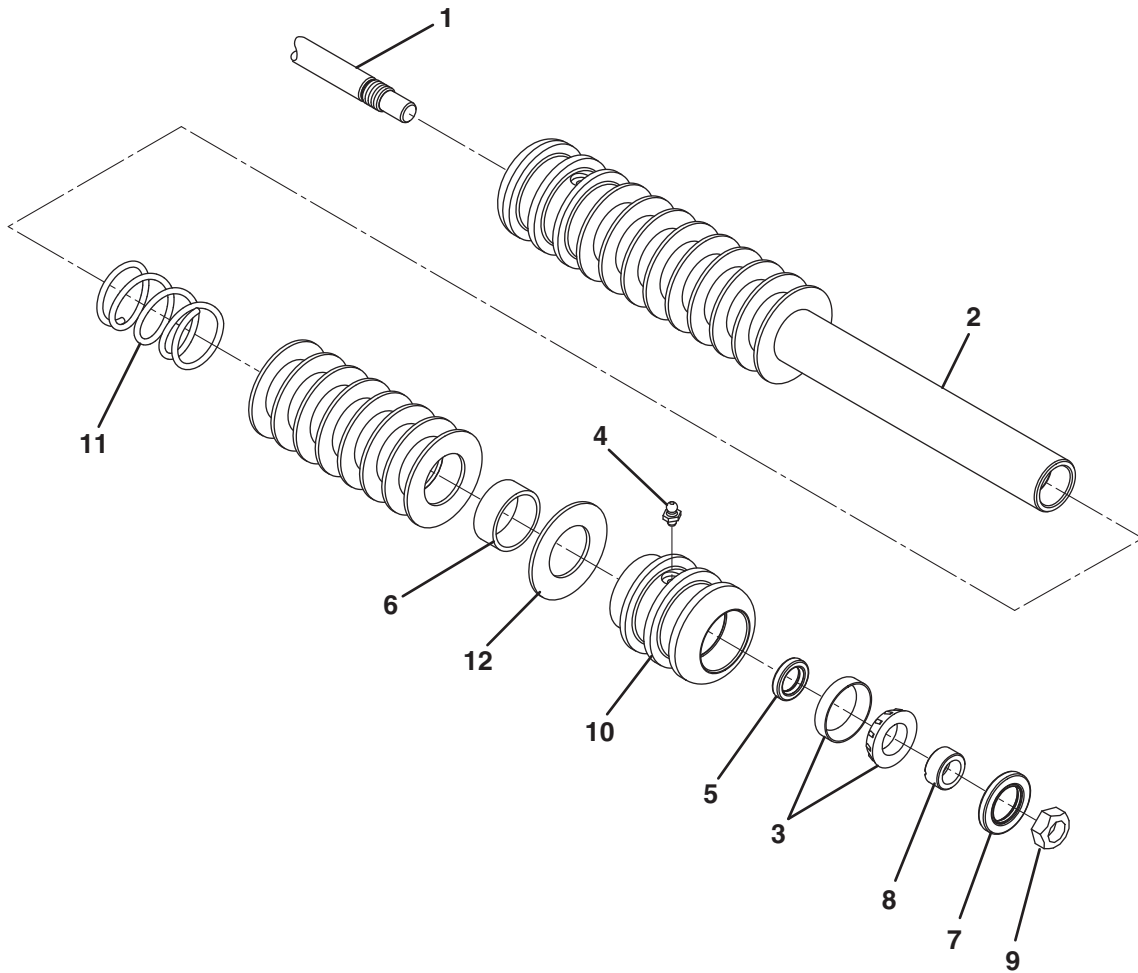


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	461397	1	Roll Pin, 1/4 x 1-1/4"	
2	453017	1	Flat Washer, 1/2	
3	400268	1	Screw, 3/8-16 x 1-3/4" Hex Head	
4	3008593	1	Tube, Down Pressure	
5	460312	1	Hairpin	
6	443110	1	Nut, 3/8-16 Hex	
7	311870	1	Spring, Compression	
8	366974	1	Rod End	
9	446142	1	Lockwasher, 3/8 Heavy	
10	352435	1	Spacer	
11	443812	1	Nut, 3/8-24 Hex	

> Change from previous revision

35.1 Front Roller

Part Number 123268

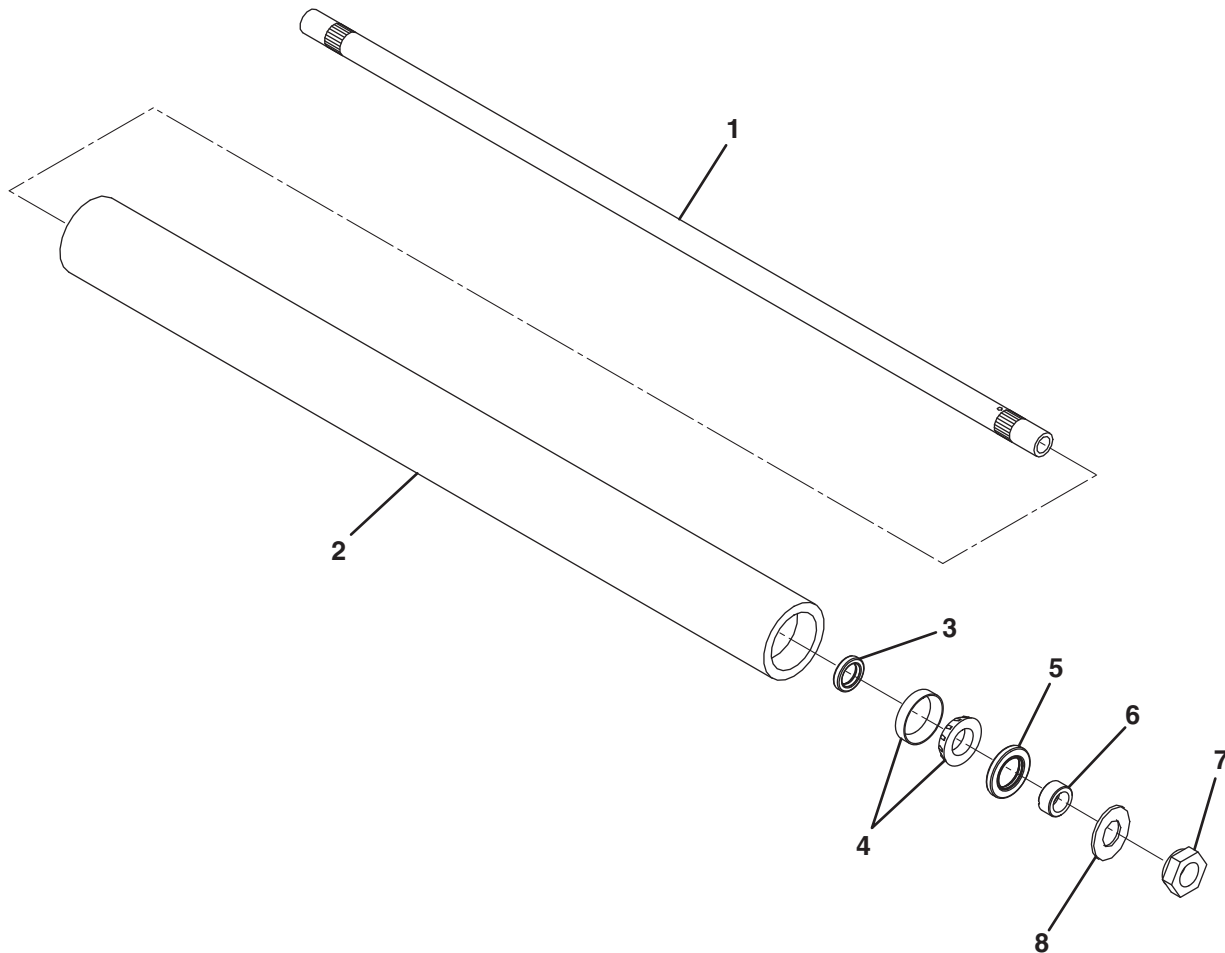


Item	Part No.	Qty.	Description	Serial Numbers/Notes
	1	1	Shaft	
	2	1	Tube	
◆	3	2	Bearing, Cup and Cone	
	4	2	Grease Fitting	
◆	5	2	Grease Seal	
◆	6	16	Spacer	
◆	7	2	Grease Seal	
	8	2	Sleeve, Wear	
◆	9	2	Locknut	
	10	2	Bearing Housing	
	11	1	Spring, Heavy	
◆	12	18	Washer	
	5000097	1	Roller Rebuild Kit	Includes Items ◆

> Change from previous revision

36.1 Rear Roller

Part Number 1000770



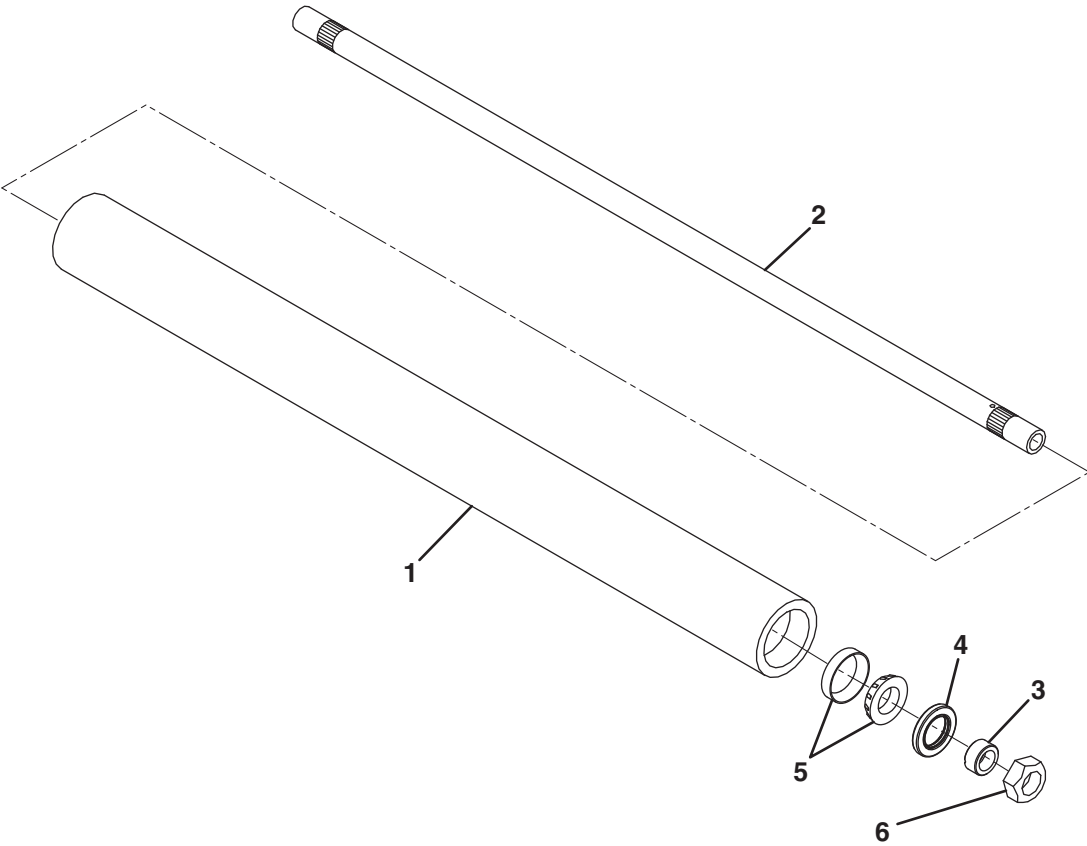
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001654	1	Shaft, Roller	
2	3001655	1	Tube, Roller	
3	3001656	2	Seal, Grease	
4	5000625	2	Bearing, Cup and Cone	
5	3000983	2	Seal, Grease	
6	3001762	2	Sleeve, Wear	
7	445718	2	Nut, 5/8-18 Hex Jam Lock	
8	3000698	2	Washer	

> Change from previous revision

37.1 Rear Roller

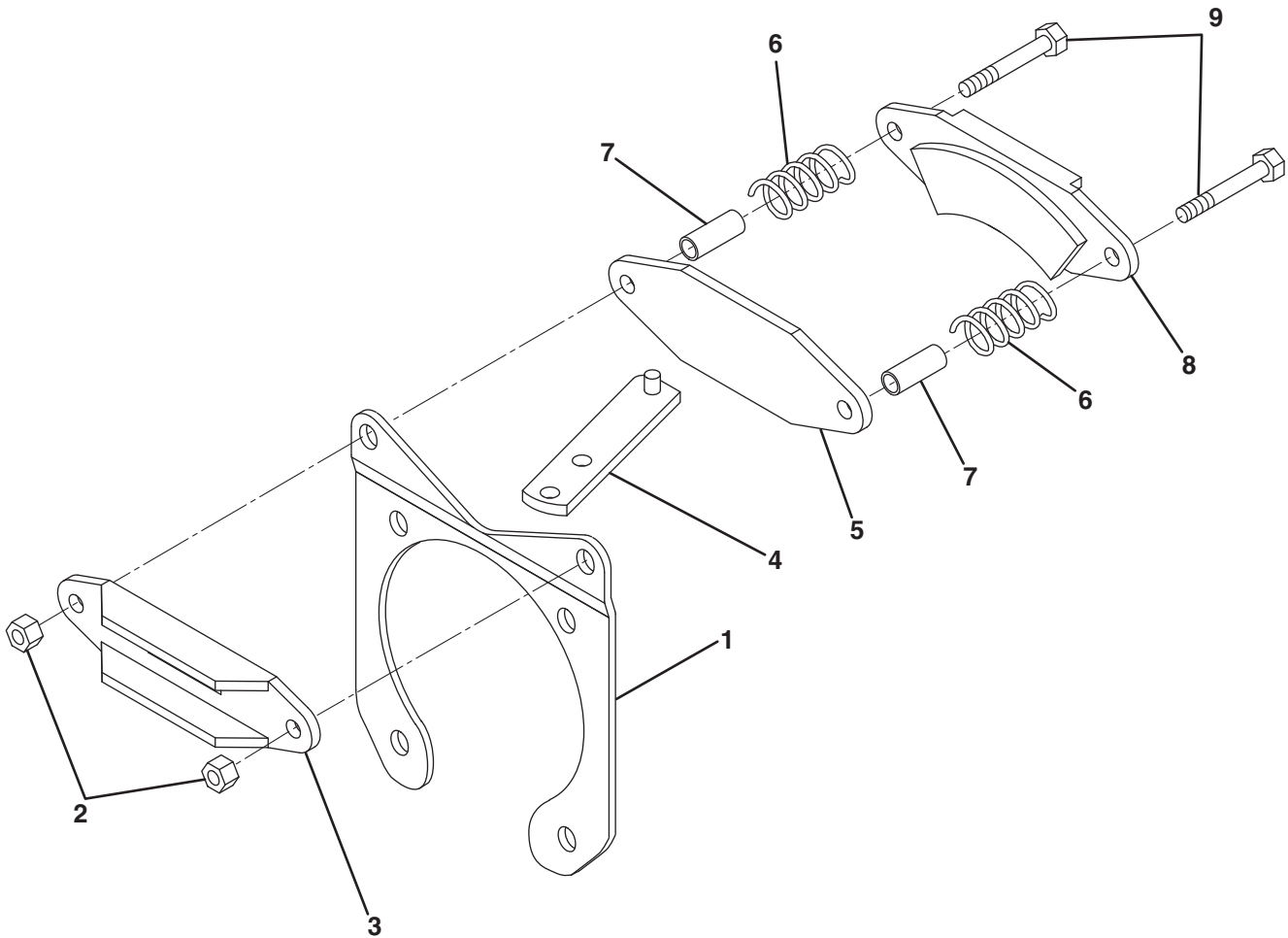
Part Number 1002446

Part Number 1003728



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1002445	1	Tube, 24" Roller	
1	1003727	1	Tube, 22" Roller	
2	3005318	1	Shaft, 24" Roller	
2	3008027	1	Shaft, 22" Roller	
3	3005156	2	Sleeve, Wear	
4	3004882	2	Seal, Grease	
5	500534	2	Bearing, Cup and Cone	
6	445798	2	Locknut, 3/4-16 Stover	

> Change from previous revision

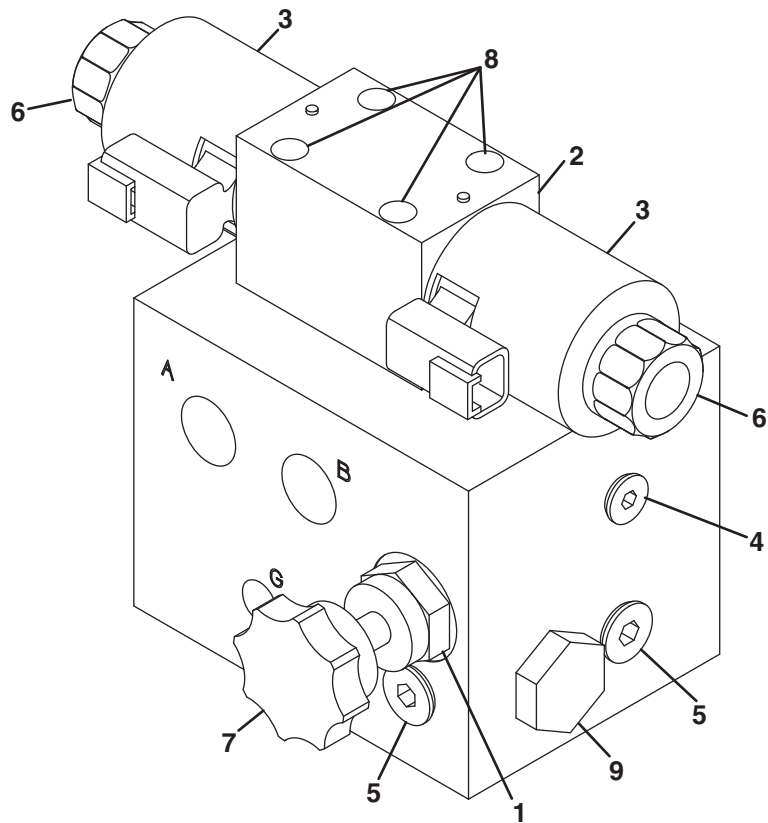


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340603	2	Bracket, Brake Mounting	
	116881	1	Disk Brake, R.H.	
	116882	1	Disk Brake, L.H.	
2	590259	4	• Nut, 3/8-24	
3	549441	2	• V-Plate	
4	502517	1	• Cam Lever	
5	503296	2	• Stud Plate with Lining	
6	549443	4	• Spring	
7	554579	4	• Spacer, Brake	
8	503295	2	• Rib Plate with Lining	
9	590260	4	• Screw, 3/8-24 x 2-1/4"	

> Change from previous revision

39.1 Reel Valve

Part Number 4135578



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003080	1	Flow Control	REFERENCE K-3 and K-4, See 46.1 REFERENCE K-7 and K-8, See 46.1
	5003579	1	• Flow Control Seal Kit	
2	4136815	1	Solenoid Valve	
	339909	4	• O-Ring	
3	4135552	2	Coil	
4	5002157	3	Port Plug	
5	5001065	3	Port Plug	
6	4136814	2	Nut, Coil, with "O"-Ring	
7	4105980	1	Knob, Flow Control	
8	4143527	4	Bolt, D03 Service Short	
9	NS	1	Cavity Plug	
	5003579	1	• Seal Kit	

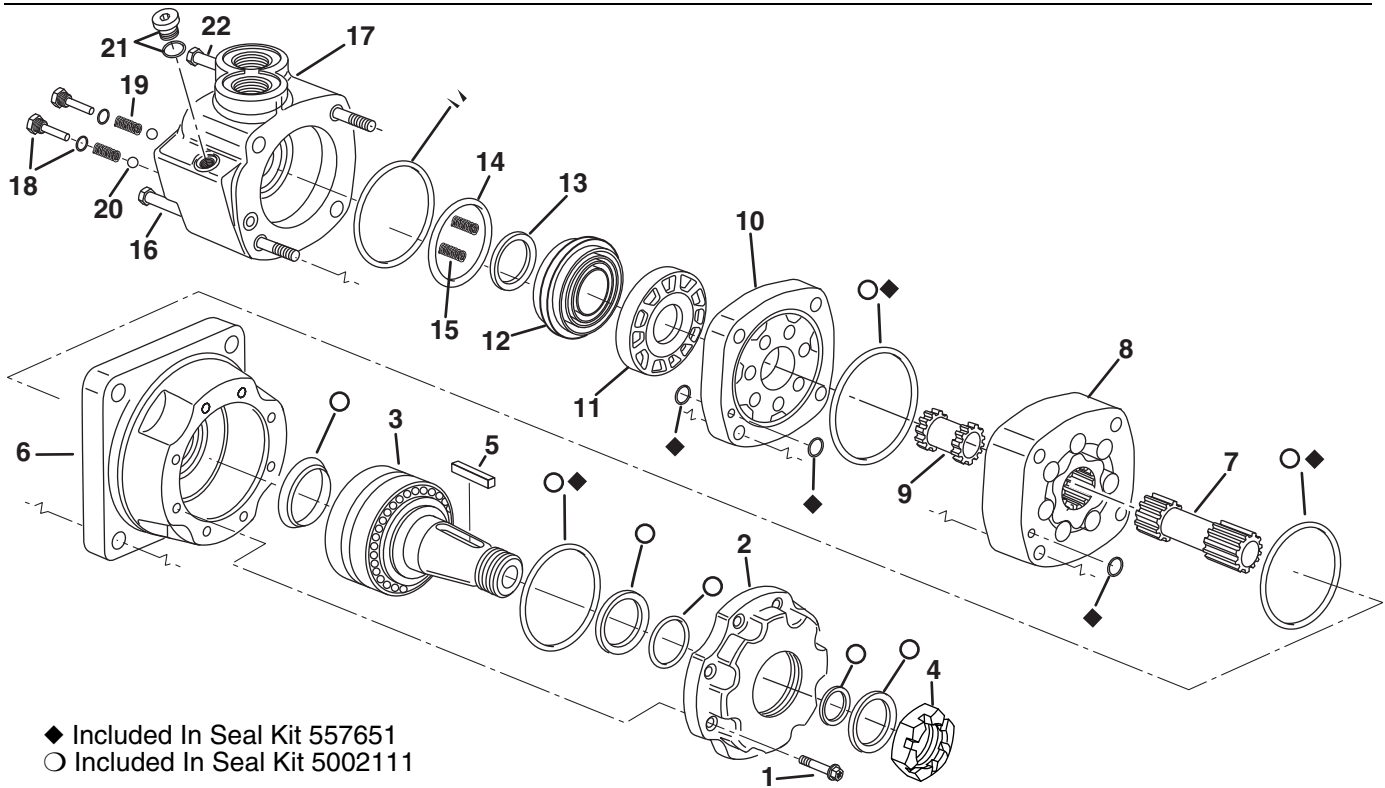
> Change from previous revision

LF 3400 / LF 3800

Serial No. All

40.1 Front Wheel Motor

Part Number 1001757



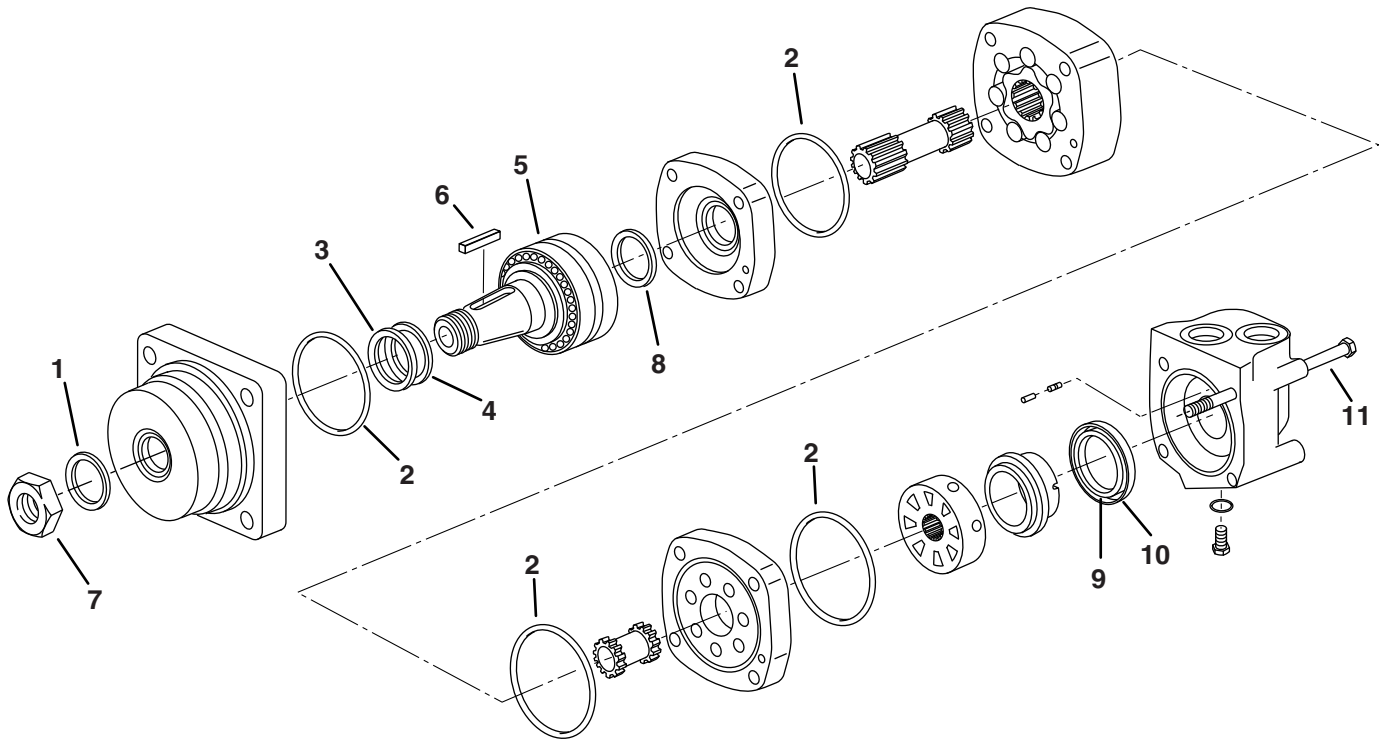
◆ Included In Seal Kit 557651
 ○ Included In Seal Kit 5002111

Item	Part No.	Qty.	Description	Serial Numbers/Notes
	1	8	Screw, Torx	
	2	1	Front Retainer	
	3	1	Shaft and Bearing Kit	
	4	1	Nut, Hex	
	5	1	Key	
	6	1	Bearing Housing	
	7	1	Drive	
	8	1	Geroler	
	9	1	Drive, Valve	
	10	1	Plate, Valve	
	11	1	Valve	
	12	1	Balance Ring and Pins	
◆	13	1	Seal, Inner Face	
◆	14	1	Seal, Outer Face	
	15	2	Spring	
	16	3	Bolt, 5-3/4"	
	17	1	Housing, Valve	
	18	2	• Check Plug Assembly	
	19	2	• Spring	
	20	2	• Ball, Steel	
	21	1	• Plug Assembly	
	22	1	Bolt	

> Change from previous revision

41.1 Rear Wheel Motor

Part Number 390859



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	A	1	Seal Exclusion	
2	A	4	Seal, 3" I.D.	
3	A	1	Back Up Ring	
4	A	1	Shaft Seal	
5	554781	1	Shaft and Bearing Kit	
6	554780	1	Key	
7	554779	1	Hex Nut	
8	A	1	Shaft Face Seal	
9	A	1	Inner Face Seal	
10	A	1	Outer Face Seal	
11	554782	4	Bolt	
	554783	1	Seal Kit	Includes Items Marked A

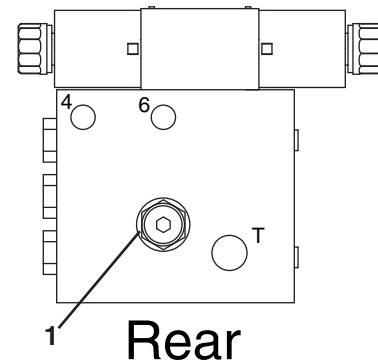
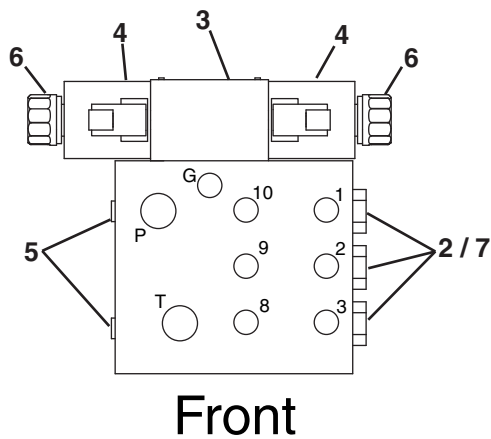
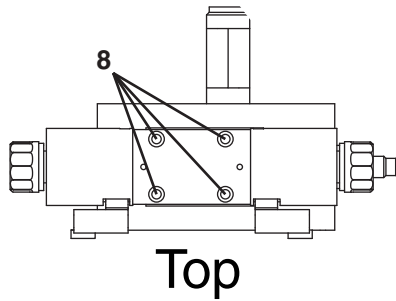
> Change from previous revision

LF 3400 / LF 3800

Serial No. All

42.1 Lift Valve

Part Number 4135566

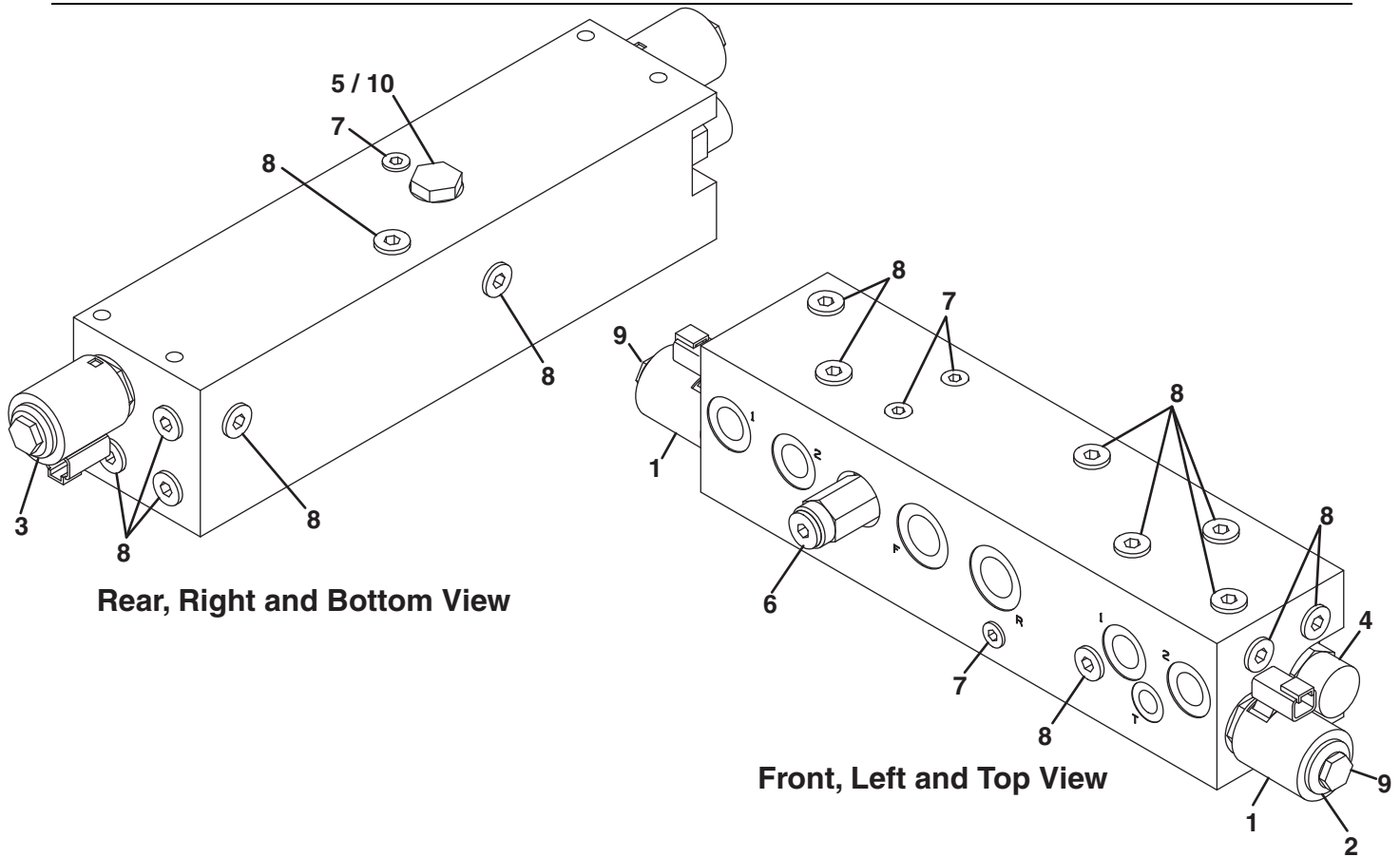


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003144	1	Relief Valve	REFERENCE K-5 and K-6, See 46.1
	5003579	1	• Relief Valve Seal Kit	
2	5001355	3	Pilot Operated Check Valve	
	5003578	1	• Check Valve Seal Kit	
3	4136815	1	Solenoid Valve	
	339909	4	• O-Ring	
4	4135552	2	Coil	
5	5002157	4	Plug, Port	
6	4136814	2	Nut, Coil, with "O"-Ring	
7	4154700	3	Pilot Piston	
8	4143527	4	Bolt, D03 Service Short	

> Change from previous revision

43.1 4WD Valve

Part Number 4135554



Rear, Right and Bottom View

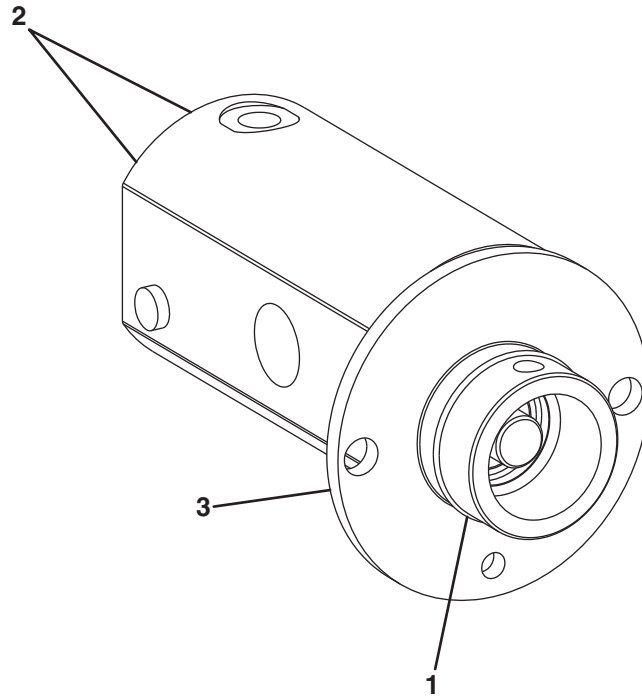
Front, Left and Top View

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4134530	2	Coil	REFERENCE K-1 and K-2, See 46.1
2	5003096	1	Solenoid Valve	
	5003578	1	• Solenoid Valve Seal Kit	
3	5003121	1	Solenoid Valve	
	5003554	1	• Solenoid Valve Seal Kit	
4	5003097	1	Pilot Operated 2-Way	
	5003580	1	• 2-Way Seal Kit	
5	5003098	1	Check Valve	
	5003579	1	• Seal Kit	
6	5003099	1	Relief Valve	
	5003579	1	• Seal Kit	
7	5001065	4	Plug, Port	
8	5002541	15	Plug, Port	
9	2811254	2	Nut, Coil, with "O"-Ring	
10	178102-14	1	Pilot Piston	

> Change from previous revision

43.1 Reel Motor

Part Number 2822503 (Five Inch Reel)

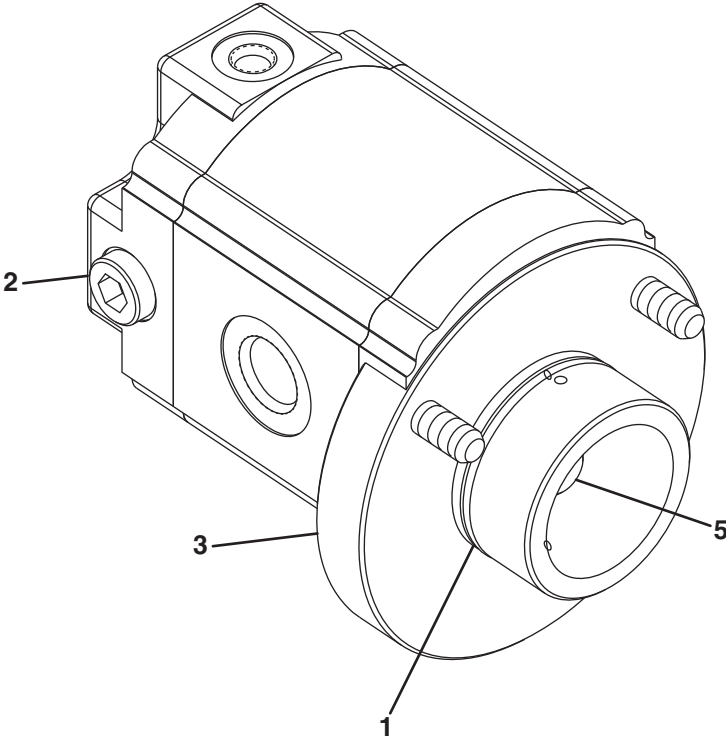


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	845269	1	O-Ring	
2	5003140	2	Relief Valve	
3	5003688	1	Face Plate	
	5003589	1	Seal Kit	

> Change from previous revision

44.1 Reel Motor

Part Number 1002620 (Seven Inch Reel)



Used on LF 3800 Models.

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3006021	1	O-Ring	Not Shown
2	5003140	2	Relief Valve	
3	5003485	1	Face Plate	
4	5003031	1	Seal Kit	
5	4102440	1	Shaft, Output	

> Change from previous revision

LF 3400 / LF 3800

45.1 Steering Valve

Part Number 4146775

Serial No. 67958 - 1651 ~ 1766

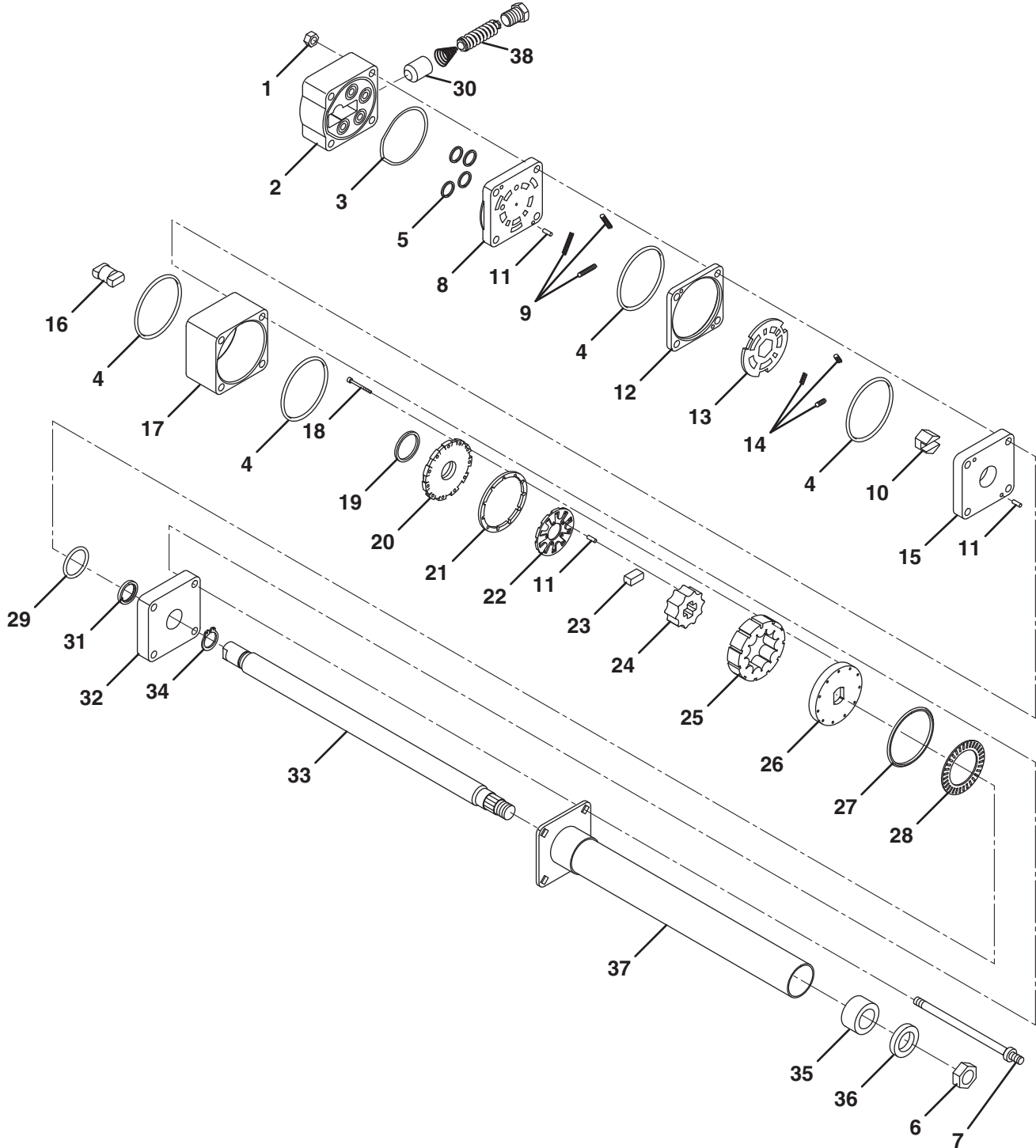
Serial No. 67959 - 1651 ~ 1840

Serial No. 67960 - 1651 ~ 1654

Serial No. 67961 - 1651 ~ 1693

Serial No. 67971 - 1651 ~ 1835

Serial No. 67972 - 1651 ~ 1863



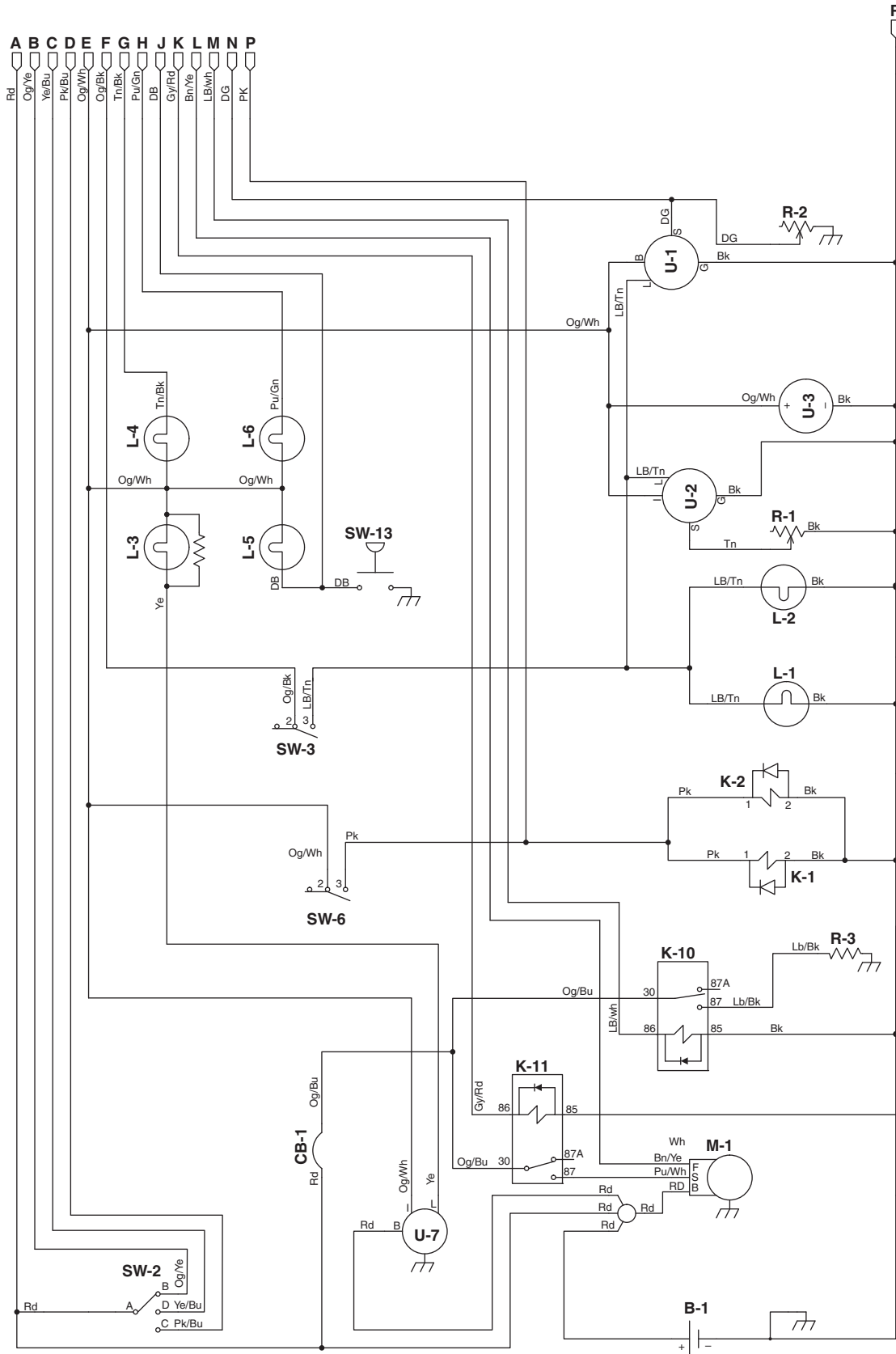
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	443108	4	Locknut, 5/16-18 Center	
2	N/S	1	Port Cover	
3	C	1	Seal, O-Ring	
4	C	4	Seal, O-Ring	
5	C	4	Seal, O-Ring	
6	443828	1	Nut, 5/8-18 Hex Jam	
7	N/S	4	Special Bolt	
8	N/S	1	Port Manifold	
9	B	3	Spring, Port Side	
10	N/S	1	Hex Drive	
11	A and E	9	Needle Roller	
12	503398	1	Valve Ring	
13	503398	1	Valve Plate	
14	B	3	Spring, Shaft Side	
15	N/S	1	Isolation Manifold	
16	N/S	1	Drive Link	
17	N/S	1	Metering Ring	
18	A	11	Screw, Socket Head	
19	C	1	Seal, Commutator	
20	A	1	Commutator Cover	
21	A	1	Commutator Ring	
22	A	1	Commutator	
23	A	1	Spacer	
24	A	1	Rotor	
25	A	1	Stator	
26	A	1	Drive Plate	
27	554855	1	Spacer	
28	554856	1	Thrust Bearing	
29	C	1	Face Seal	
30	4146797	1	Dampening Cap	
31	554857	1	Seal, Spacer	
32	N/S	1	Upper Cover Plate	
33	D	1	Shaft	
34	D	1	Retaining Ring	
35	D	1	Bushing	
36	D	1	Seal	
37	D	1	Jacket	
38	557733	1	Relief Valve Cartridge	

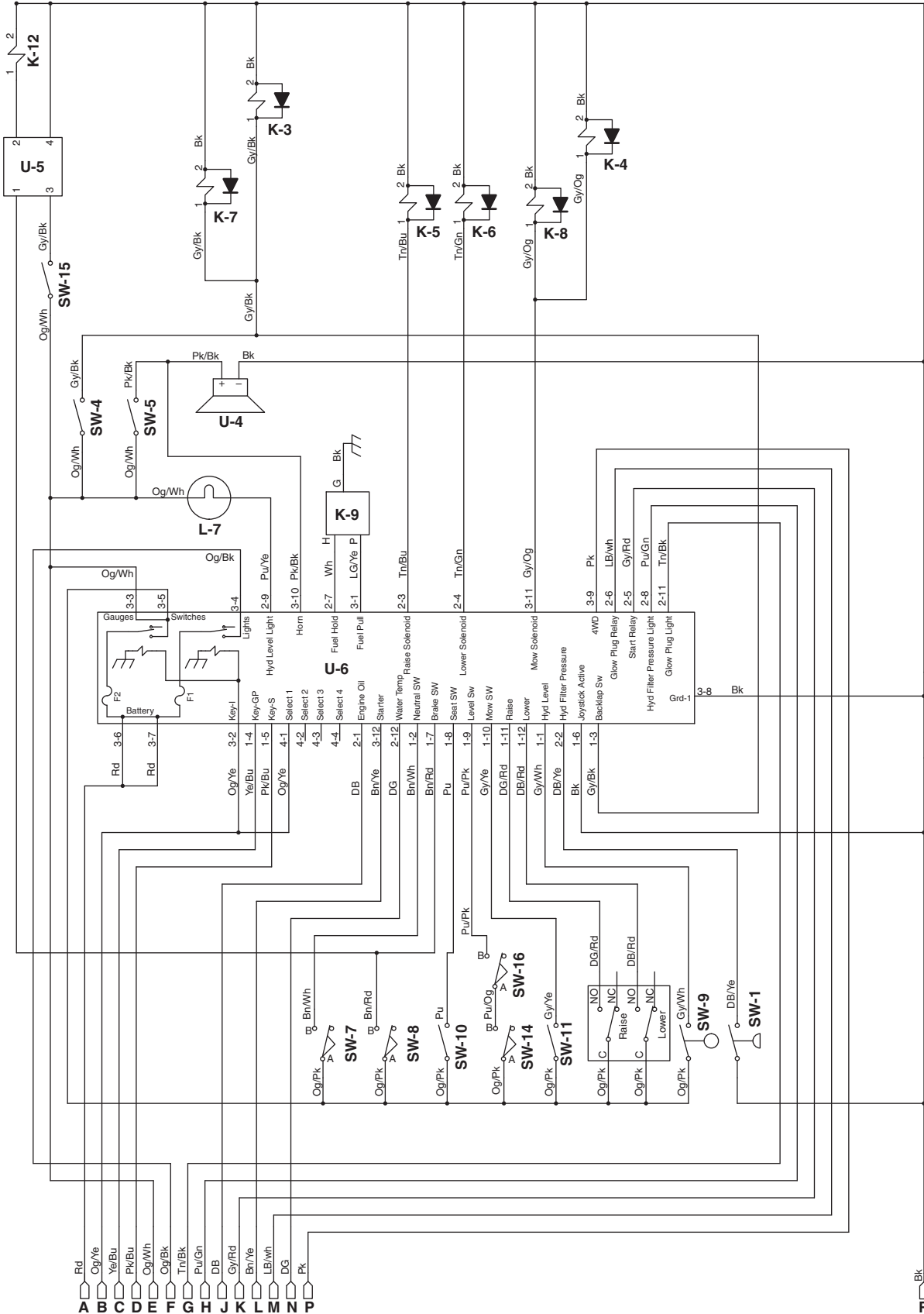
Service Kits

A	5003220	1	Metering Assembly Kit	
B	502924	1	Spring Kit	
C	557738	1	Seal Kit	
D	5003219	1	Jacket Tube Kit	
E	502925	1	Needle Roller Kit	

> Change from previous revision

46.1 Electrical Schematic





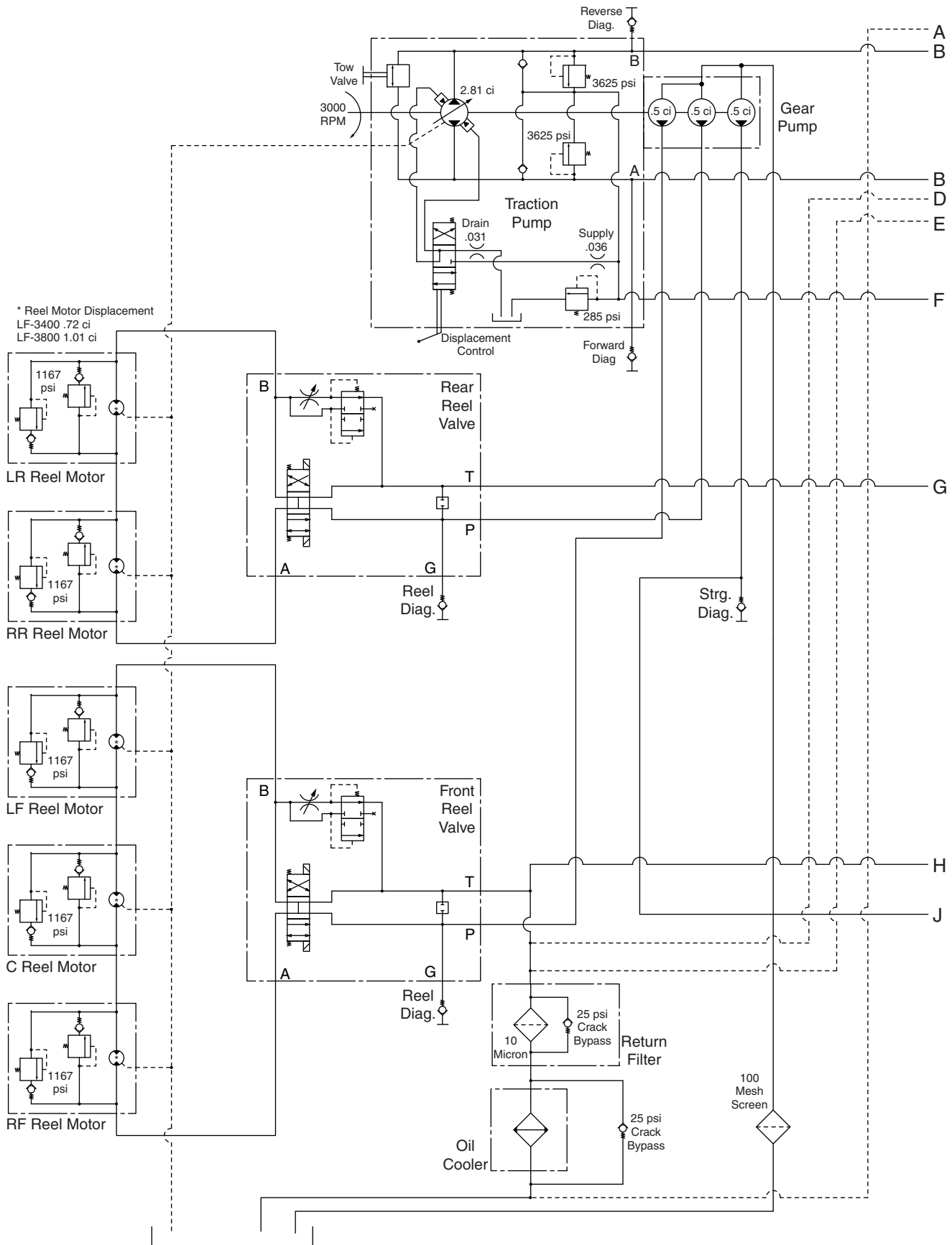
LF 3400 / 3800

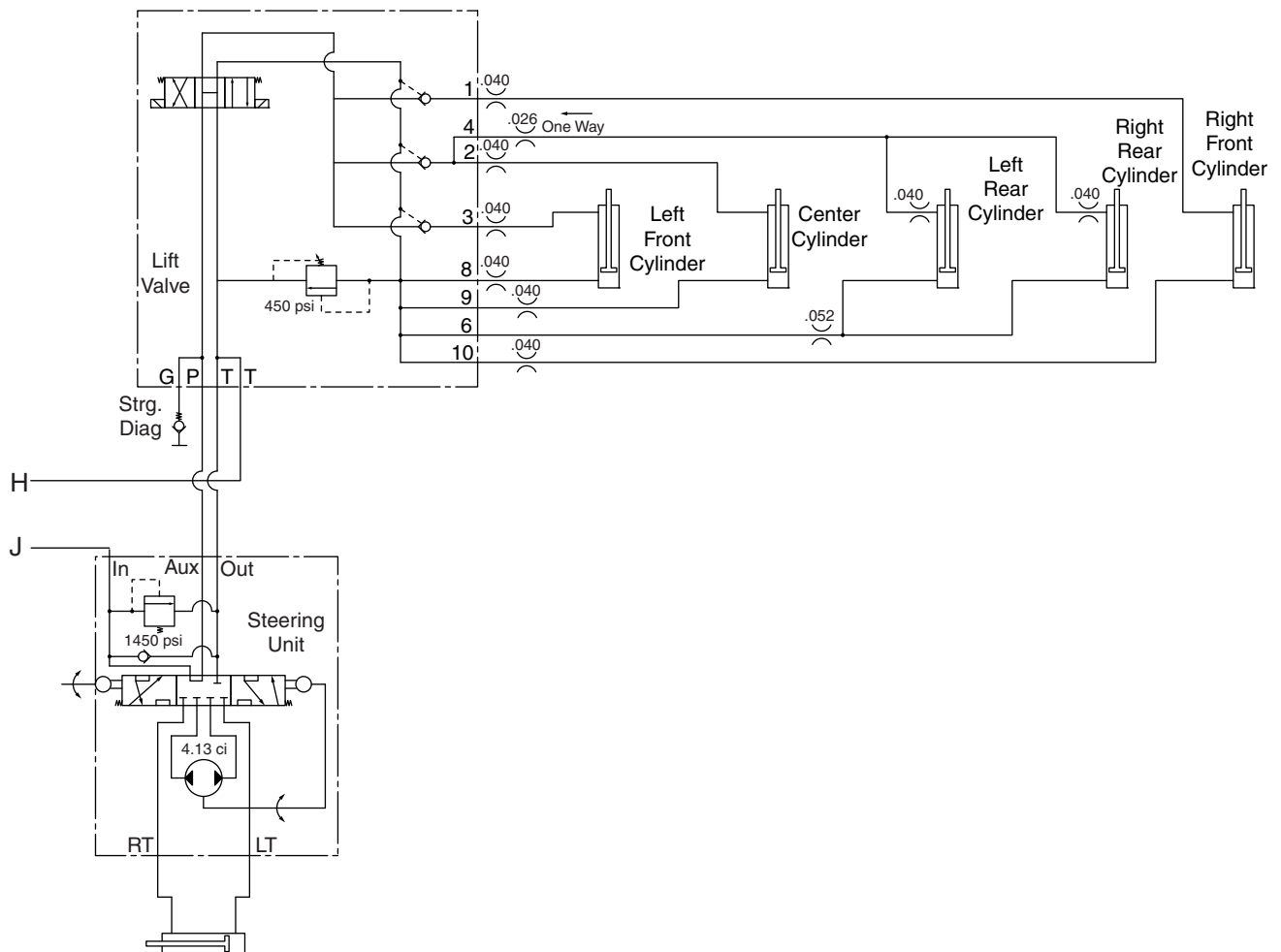
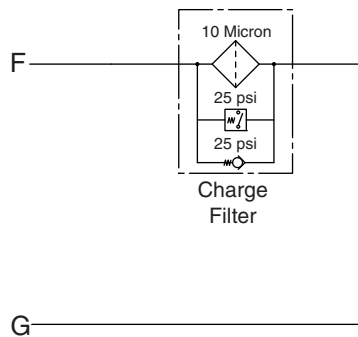
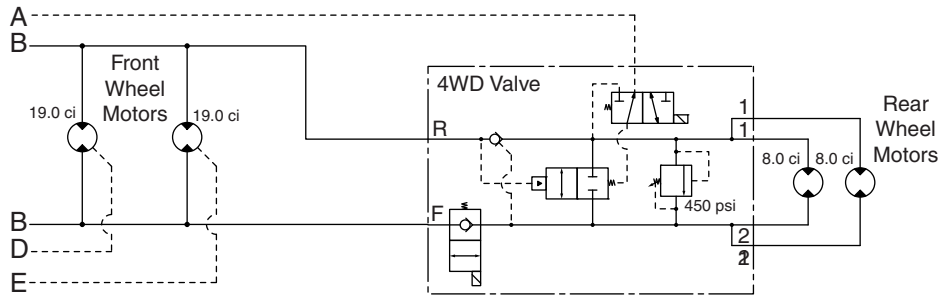
Item	Reference Illustration	Part Number	Description	Serial Numbers/Notes
B-1	See 29.1	366931	Battery	
CB-1	See 29.1	361439	50 Amp Circuit Breaker (Alternator)	
F-1	See 29.1	5003282	20 Amp Fuse (Ignition Circuit)	Included in Controller
F-2	See 29.1	5003282	20 Amp Fuse (Lights)	Included in Controller
K-1	See 43.1	4134530	4WD Solenoid Coil	
K-2	See 43.1	4134530	4WD Solenoid Coil	
K-3	See 39.1	4135552	Rear Backlap Solenoid Coil	
K-4	See 39.1	4135552	Rear Mow Solenoid Coil	
K-5	See 42.1	4135552	Raise Solenoid Coil	
K-6	See 42.1	4135552	Lower Solenoid Coil	
K-7	See 39.1	4135552	Front Backlap Solenoid	
K-8	See 39.1	4135552	Front Mow Solenoid	
K-9	Not Shown		Fuel Solenoid	Included with Engine
K-10	See 29.1	4126082	Glow Plug Relay	
K-11	See 29.1	4126082	Starter Relay	
K-12	Not Shown		Cruise Control Magnet (Option)	
L-1	See 29.1	4123183	Left Headlight	
L-2	See 29.1	4123183	Right Headlight	
L-3	See 4.1	N/S	Alternator Light	Included in 4130148
L-4	See 4.1	N/S	Glow Plug Light	Included in 4130148
L-5	See 4.1	N/S	Engine Oil Pressure Light	Included in 4130149
L-6	See 4.1	N/S	Hydraulic Filter Pressure Light	Included in 4130149
L-7	See 4.1	366751	Hydraulic Level Light	
M1	Not Shown	N/S	Starter Motor	Included in Engine
R-1	See 16.1	3006337	Fuel Sender	
R-2	See 13.1	364501	Temperature Sender	
R-3	Not Shown		Glow Plugs	Included in Engine
SW-1	See 22.1	556419	Hydraulic Filter Pressure Switch	
SW-2	See 4.1	4128888	Ignition Switch	OFF-None Run - A+B GP - A+B+D Start - A+B+C+D
SW-3	See 4.1	4130132	Light Switch	
SW-4	See 12.1	3006434	Back Lap Switch	
SW-5	See 4.1	4130133	Horn Switch	
SW-6	See 4.1	4130132	4WD Switch	
SW-7	See 5.1	4125831	Neutral Proximity Switch	
SW-8	See 6.1	4125831	Parking Brake Proximity Switch	
SW-9	See 16.1	3001279	Hydraulic Oil Level Switch	
SW-10	See 3.1 , 3.2	4139450	Seat Switch	Michigan Seat
SW-10	See 3.3	4210500	Seat Switch	Harita Seat
SW-11	See 4.1	4174684	Reel Switch	
SW-12	See 4.1	1004290	Joystick	
SW-13	Not Shown		Engine Oil Pressure Switch	Included in Engine
SW-14	See 28.1	4125831	Right Reel Level Proximity Switch	

Item	Reference Illustration	Part Number	Description	Serial Numbers/Notes
SW-15	Not Shown		Cruise Control Switch (Option)	
SW-16	See 28.1	4125831	Left Reel Level Proximity Switch	
U-1	See 4.1	3005121	Temperature Gauge	
U-2	See 4.1	365943	Fuel Gauge	
U-3	See 4.1	4129683	Hour Meter	
U-4	See 4.1	366670	Horn	
U-5	Not Shown		Cruise Control Module (Option)	
U-6	See 29.1	4122841	Controller	
U-7	Not Shown	N/S	Alternator	Included in Engine


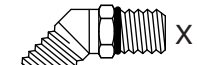

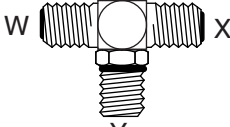
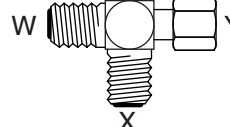
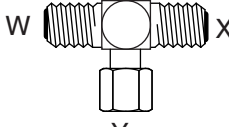
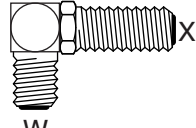
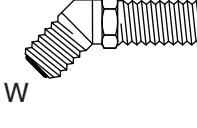
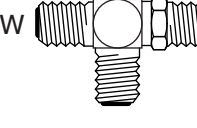

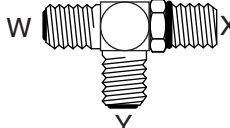

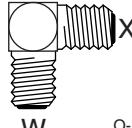
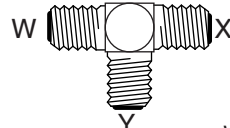
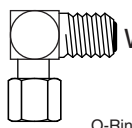
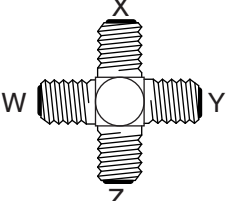

47.1 Hydraulic Schematic

5 Gang Units (LF 3400, LF 3800 and LF 3400 Turbo)





48.1 O-Ring Chart



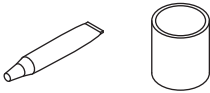
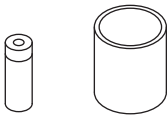

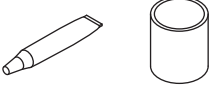


 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Boss Dash Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Boss Dash Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Boss Dash Size</p>
 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y}$ O-Ring Boss Dash Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y}$ O-Ring Face Seal Size O-Ring Not Needed</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y}$ O-Ring Face Seal Size O-Ring Not Needed</p>
 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y}$ O-Ring Face Seal Size O-Ring Face Seal Size</p>
 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y}$ O-Ring Boss Dash Size O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Face Seal Size</p>
 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y}$ O-Ring Face Seal Size O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X}$ O-Ring Not Needed</p>
 <p>O-Ring Face Seal Size $\overbrace{\quad\quad}^{W-X-Y-Z}$ O-Ring Face Seal Size O-Ring Face Seal Size O-Ring Face Seal Size</p>		

Adapter Part Number.	Dash Size	Adapter Type	(W) O-Ring	(X) O-Ring	(Y) O-Ring	(Z) O-Ring
339974	4-6	Straight Adapter	339908	339897		
339979	6-6	Straight Adapter	339909	339897		
339985	8-10	Straight Adapter	339910	339899		
339989	10-10	Straight Adapter	339911	339899		
339990	10-12	Straight Adapter	339911	339900		
339993	12-10	Straight Adapter	339912	339899		
339994	12-12	Straight Adapter	339912	339900		
339996	12-16	Straight Adapter	339912	339901		
339998	16-12	Straight Adapter	339913	339900		
339999	16-16	Straight Adapter	339913	339901		
340007	6-4	Straight Adapter	339906	339896		
340022	4-4	45° Adapter	339908	339896		
340057	4-6	90° Adapter	339908	339897		
340070	10-10	90° Adapter	339911	339899		
340090	24-24	90° Adapter	339915	339903		
340143	6-6-6	Swivel Branch Tee	339909	339909		
340241	10-10	Union Bulkhead Adapter	339911	339911		
340263	6-6-6	Straight Thread Run Tee	339909	339897		
340274	8-10-8	Straight Thread Run Tee	339910	339899		
340339	16-16-16	Union Tee	339913	339913		

SAE Boss O-Rings			ORS Face Seal O-Rings		
Dash Size	Thread Size	O-Ring	Tube Size	Thread Size	O-Ring
2	5/16-24	459290	4	9/16-18	339908
3	3/8-24	459291	6	11/16-16	339909
4	7/16-20	339896	8	13/16-16	339910
5	1/2-20	459293	10	1-14	339911
6	9/16-18	339897	12	1 3/16-12	339912
8	3/4-16	339898	16	1 7/16-12	339913
10	7/8-14	339899	20	1 11/16-12	339914
12	1 1/16-12	339900	24	2-12	339915
14	1 3/16-12	459296			
16	1 5/16-12	339901			
20	1 5/8-12	339902			
24	1 7/8-12	339903			
32	2 1/2-12	339904			

> Change from previous revision

Fluids and Compounds

<p align="center">Hydraulic Fluid*</p>		
5001405	Two 2-1/2 Gallon Container of ISO VG68 Oil	
5001404	One 5 Gallon Pail of ISO VG68 Oil	
2500548	Two 2-1/2 Gallon Container of 10W30 Oil	
2500546	One 5 Gallon Pail of 10W30 Oil	
503409	Two 2-1/2 Gallon Container of ATF Fluid	
503407	One 5 Gallon Pail of ATF Fluid	
<p align="center">2-Cycle Oil</p>		
554599	Twenty Four 8 Ounce Plastic Container	
<p align="center">Grease</p>		
5000067	One 5 Gallon Pail OO-Grease	
5000068	Twenty Four 8 Ounce Tube OO-Grease	
<p align="center">Paint</p>		
4184140	12 Ounce Orange Aerosol Can	
2500789	Twelve 1 Quart Can Orange	
546409	Two 1 Gallon Can Orange	
5002631	Hunter Green Aerolol Can	
838140	16 Ounce Ransomes Green Aerosol Can	
4112764	1 Quart Can Ransomes Green	
<p align="center">Lapping Compound</p>		
5002488	One 10 Pound Pail of 80 Grit	
5002490	One 25 Pound Pail of 80 Grit	
5002489	One 10 Pound Pail of 120 Grit	
5002491	One 25 Pound Pail of 120 Grit	
<p align="center">Specialty Compound</p>		
365422	5.3 Ounce Tube of Electrical Insulating Gel	
5001581	14 Ounce Can of Lubriplate Multi Lube A	
523248	Chain Lubricant	
4136736	Zinc Spray Corrosion Protection	
<p align="center">Biodegradable Hydraulic Fluid*</p>		
5003102	One 55 Gallon Drum Jacobsen GreensCare 68	
5003103	One 5 Gallon Pail Jacobsen GreensCare 68	
5003105	One 55 Gallon Drum Jacobsen GreensCare 46	
5003104	One 5 Gallon Pail Jacobsen GreensCare 46	
4115976	One 55 Gallon Drum Jacobsen GreensCare 32	
4115977	One 5 Gallon Pail Jacobsen Greens Care 32	
4114701	GreensCare Bio-Flush	
5003106	Twenty Four 14 Ounce Tube Greens Care Grease	
<p align="center">O-Ring Kit</p>		
5002452	SAE O-Ring Boss (3/32 ~ 2" Tube O.D.)	
5002453	Common O-Ring Kit	
5002454	O-Ring Face Seal ORFS (-4 ~ -24 ORS Tube Size)	
<p align="center">Right Start Kit for New Machines</p> <p align="center">See your local Jacobsen Dealer</p>		
<p align="center">On-Time Maintenance Kit</p> <p align="center">See your local Jacobsen Dealer</p>		

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

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

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