



4192121-Rev C



# Parts & Maintenance Manual

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## R-311™ Rotary Mower with folding ROPS

69166 – Kubota® V2203-M

69167 – Kubota® V2203-M EC



### 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.



***When Performance Matters.™***

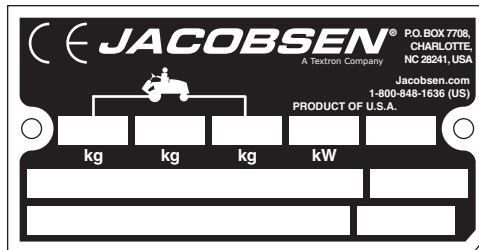
## FOREWORD

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 right 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                 |
|------|----------|--------------------|------|----------|-----------------------------|
|      | 4113986  | Engine Oil Filter  |      | 555771   | Hydraulic Return Oil Filter |
|      | 549633   | Engine Air Filter  |      | 2811255  | Hydraulic Charge Oil Filter |
|      | 557619   | Engine Fuel Filter |      |          |                             |

## Service Support Material

| Qty. | Part No. | Description                   |
|------|----------|-------------------------------|
|      | 4192120  | Safety & Operation Manual     |
|      | 4192121  | Parts & Maintenance           |
|      | 4192126  | Kubota Engine Parts Manual    |
|      | 4219160  | Operator Training Video (DVD) |

| Qty. | Description    |
|------|----------------|
|      | 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 (Safety & Operation Manual, Engine Manual, and attachments/accessories instruction sheets). If the operator cannot read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands, and feet. Operate the machine only in daylight or in good artificial light.
6. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Jacobsen.
7. Stay alert for holes in the terrain and other hidden hazards.
8. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.). Enter a new area cautiously. Stay alert for hidden hazards.
9. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders, and damage to property.
10. Do not carry passengers. Keep bystanders and pets a safe distance away.
11. Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors, or other protective devices securely fastened in place.
12. Never disconnect or bypass any switch.
13. Do not change the engine governor setting or overspeed the engine.
14. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation or in an enclosed area.
15. Fuel is highly flammable; handle with care.
16. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
17. Disengage all drives and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
18. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads. Watch out for traffic when crossing or operating on or near roads.
19. Local regulations may restrict the age of the operator.
20. 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 or with the ROPS folded.*
23. Keep legs, arms, and body inside the seating compartment while the vehicle is in motion.
24. Disconnect battery cables 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 pedal is engaged, PTO 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 PTO 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.

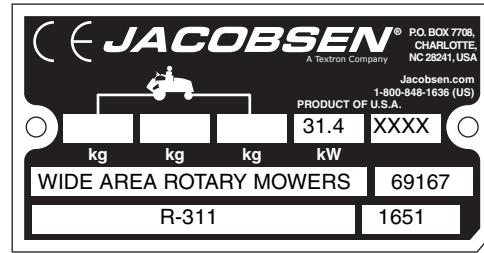
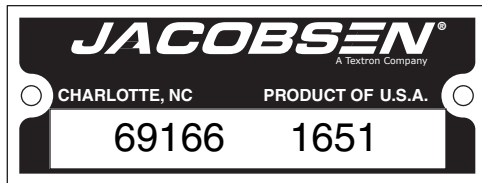
## 2 SPECIFICATIONS

### 2.1 PRODUCT IDENTIFICATION

69166..... R-311 with folding ROPS.  
69167..... R-311 with folding ROPS EC.

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

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



| Product | EEC Sound Power | Sound Pressure Level Operator Ear | Vibration M/S <sup>2</sup> |       |
|---------|-----------------|-----------------------------------|----------------------------|-------|
|         |                 |                                   | Arms                       | Body  |
| 69167   | 105 dBa         | 88 dBa                            | 1.87                       | 0.027 |

### 2.2 ENGINE

Make ..... Kubota  
Model ..... V2203-M-E3B  
Horsepower (69166) ..... 44.9 hp (33.5 kW) @2600 rpm  
Horsepower (69167) ..... 42.1 hp (31.4 kW) @2450 rpm

**Note:** Actual sustained horsepower will likely be lower than listed in specifications due to operating limitations and enviromental factors

Displacement ..... 134.1 cu. in. (2197 cc)  
Bore and Stroke ..... 3.43 x 3.64 in. (87 x 92 mm)  
Compression Ration ..... 22:1  
Torque ..... 104 ft. lbs. (140.7 Nm) @ 1600 rpm

Fuel:  
Type ..... No. 2 Low or Ultra Low Sulfur Diesel  
Rating ..... Min. Cetane rating 45  
Capacity ..... 20 U.S. Gal. (75.7 liters)

Fuel Injection Pump..... Bosch K type Mini Pump  
Ignition Timing ..... 18° before TC  
Governor..... Centrifugal ball mechanical  
Low Idle ..... 900 RPM  
High Idle ..... 2800 RPM (69166)  
High Idle ..... 2650 RPM (69167)  
Lubrication:  
Capacity..... 10 quarts (9.5 liter) with filter  
Type ..... 10W30  
API Classification ..... CD, CE  
Air Filter ..... Dry type with evacuator valve and service indicator  
Alternator..... 45 amp  
Cooling System ..... Liquid Cooled  
Capacity..... 8 qt. (7.6 l) 50/50 water / ethylene glycol mix  
Thermostat ..... 185° F (95° C)

### 2.3 MOWER

Tires:  
Front..... 26 x 12-12, 6 Ply  
Rear ..... 23 x 10.5-12, 4 Ply  
Pressure:  
Front..... 16-20 psi (1.10-1.38 BAR)  
Rear ..... 10-12 psi (0.69-0.83 BAR)  
Battery:  
Type ..... 12 Volt Lead/Acid  
Group ..... AABM #75NF  
Rating ..... 750 CCA at 0° F (-18° C)  
Service Brake ..... Pedal operated disc brakes  
Parking Brake ..... Pedal operated disc brakes  
Differential..... Single speed, limited slip

Speed:  
Forward (2WD) ..... 0 - 14.9 mph (0 - 24.0 km/h)  
Forward (4WD) ..... 0 - 7.8 mph (0 - 12.5 km/h)  
Mow ..... 0 - 7.7 mph (0 - 12.4 km/h)  
Reverse ..... 0 - 6 mph (0 - 9.6 km/h)  
Hydraulic System:  
Capacity..... 17 U.S. gal. (64.3 liters)  
Fluid Type ..... 10W30  
Return Filter..... Full Flow 10 micron  
Charge Filter..... Full Flow 10 micron  
Steering ..... Power steering, rear wheels  
Mower Lift..... 3 spool manual valve and single acting cylinders  
PTO Drive..... Fixed Flow Hydraulic

## 2.4 CUTTING UNITS

Type ..... Three Fully Floating Decks  
 Width:  
     Front Deck..... 64 in. (1625 mm)  
     Wing Decks..... 42 in. (1067 mm)

Cutting Width:  
     Front and both Wings 134 in. (3403 mm)  
     Front and one wing ... 99 in. (2514 mm)  
     Front only..... 64 in. (1625 mm)  
 Drive ..... Hydraulic Motors  
 Cutting Height..... 1.00 - 5.5 in. (25 - 140 mm)

## 2.5 WEIGHTS AND DIMENSIONS

| <b>Dimensions:</b>               | <b>Inches</b> | <b>(mm)</b> |
|----------------------------------|---------------|-------------|
| Length .....                     | 144           | (3657)      |
| Height (ROPS) .....              | 84            | (2134)      |
| Height (ROPS with Canopy) .....  | 92            | (2337)      |
| Height (ROPS Folded) .....       | 63.5          | (1613)      |
| Wheel Base.....                  | 67.8          | (1722)      |
| Width - Transport Position ..... | 93.5          | (2375)      |

|                              |     |        |
|------------------------------|-----|--------|
| Width - Mowing Position..... | 139 | (3530) |
| Ground Clearance.....        | 8   | (203)  |
| Turning Radius .....         | 33  | (838)  |

| <b>Weights:</b>                                             | <b>Lbs.</b> | <b>(kg)</b> |
|-------------------------------------------------------------|-------------|-------------|
| Fuel tank filled and cutting units installed. Less Operator |             |             |
| 69166 .....                                                 | 3974        | (1803)      |

## 2.6 ACCESSORIES AND SUPPORT LITERATURE

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



### CAUTION

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

### Accessories

|                                            |         |
|--------------------------------------------|---------|
| Orange Touch-up Paint (12 oz. spray) ..... | 554598  |
| Mulcher Kit .....                          | 69123   |
| High Lift Blade Kit .....                  | 970198  |
| Care Free Tire Kit.....                    | 2811453 |
| Canopy / Sunshade.....                     | 68095   |
| Light Kit.....                             | 4194160 |
| Blade Balancer.....                        | JAC5016 |
| Cab/Cab Accessories .....                  | ●       |
| Brush/Sweeper .....                        | ◆       |
| Snow Blower .....                          | ▲       |

● Contact: Jodale Perry Corporation  
 Box 990, 300 Route 100  
 Morden, Manitoba, Canada R6M 1A8  
 Phone: (204) 822-9100  
 Fax: (204) 822-9111

◆ Contact: Loftness Specialized Equipment, Inc.  
 South Highway 4  
 Hector, MN 55342  
 Phone 800 . 848 . 7624  
 ATTN Doug Haley

### Support Literature

|                                     |         |
|-------------------------------------|---------|
| Safety & Operation Manual.....      | 4192120 |
| Parts & Maintenance Manual.....     | 4192121 |
| Diesel Engine Parts Catalog.....    | 4192126 |
| Operator Training Video (DVD) ..... | 4219160 |

▲ Contact: M-B Companies, Inc.  
 1200 S. Park Street, Box 148  
 Chilton, WI 53014  
 Phone: (888) 558-5801  
 Fax: (414) 849-2109

# 2 SPECIFICATIONS

## 2.7 DECLARATION OF CONFORMITY

**DECLARATION OF CONFORMITY • ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ • PROHLÁŠENÍ O SHODĚ • OVERENSSTEMMELSESERKLÆRING • CONFORMITEITSVERKLARING • VASTAVUSDEKLARATSIOON • VAATIMUSTENMUKAISUUSVAKUUTUS • DECLARATION DE CONFORMITE • KONFORMITÄTSEERKLÄRUNG • ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ • MEGFELELŐSÉGI NYILATKOZAT • DICHIARAZIONE DI CONFORMITÀ • ATBILSTĪBAS DEKLARĀCIJA • ATITIKTIES DEKLARACIJA • DIKJARAZZJONI TAL-KONFORMITÀ • 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 ärinimi 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 • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerčiali u indirizz shiñ 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<br>11524 Wilmar Blvd.<br>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 koda • Kodici tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 69167                                                                                                                   |
| Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenaaam • 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R-311                                                                                                                   |
| Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyypimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenje • Namen stroja • Descripción • Beteckning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lawnmower, Article 12, Item 32                                                                                          |
| Serial Number • Сериен номер • Sériové číslo • Serienummer • Serienummer • 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 • Serienummer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6916701651-6916703000                                                                                                   |
| Engine • Двигател • Motor • Motor • Motor • Mootor • Moottori • Moteur • Motor • Μηχανή • Modulnév • Motore • Dzinējs • Variklis • Sahha Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Kubota V2203-M-E3B Diesel                                                                                               |
| Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31,4 kW @ 2450 RPM                                                                                                      |
| Cutting Width • Ширина на рязане • Šírka fezu • Skærebredde • Maai breedte • Lõikelaius • Leikkuuleveys • Largeur de coupe • Schnittbreite • Μήκος μισιέζας • Vágási szélesség • Larghezza di taglio • Grišanas platums • Pjovimo plotis • Tikkonforma mad-Direttivi • Szerokość cięcia • Largura de Corte • Lățimea de tăiere • Šírka záberu • Širina reza • Anchura de corte • Klippbredd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 340 cm                                                                                                                  |
| Conforms to Directives • В съответствие с директивите • Splūnīje podmiņky smēnīc • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθεί τις πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktyvų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpre as Directivas • Respectă Directivale • Je v súlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2004/108/EC<br>2006/42/EC<br>2004/14/EC, 2005/88/EC<br>2006/66/EC                                                       |
| Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmínek • 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 • Στρωθιμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērtais skaņas jaudas līmenis • Išmatuotas garso stiprumo lygis • Livell tal-Qawwa tal-Foss Iggarantit • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hlada akustiského výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 105 dB(A) LWA                                                                                                           |
| Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garanteert helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garantierter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotas garso stiprumo lygis • Livell tal-Qawwa tal-Foss Iggarantit • Moc akustyczna gwarantowana • Nivel sonoro garantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå                                                                                                                                                                                                                                                                                                                                                                                                                                 | 105 dB(A) LWA                                                                                                           |
| Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (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 ocený 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                                                                                             |
| 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 • Uhendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Iosssa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Εργαλείου για 2000/14/EK • 2000/14/EK – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK registrētā organizācija • JK notifikuotostais iastais 2000/14/EC • Korp Notifikat tar-Renju Unit għal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat in Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného královstva pre smernicu 2000/14/ES • Britanski priklāseni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien | Number: 1088<br>Sound Research Laboratories Limited<br>Holbrook House, Little Waldingfield<br>Sudbury, Suffolk CO10 0TH |
| Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Műratase operátori körvas • Melutasa 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 patiriamas triukšmo lygis • Livell tal-Foss fil-Widna tal-Operator • Dopuszczalny poziom hałasu dla operatora • Nivel sonoro nos ovidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiacia na sluch operátora • Raven hrupa pri užesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra                                                                                                                                                                                                                                                                                                          | 88 dB(a) Leq (2006/42/EC)                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |
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| <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 usati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité technické normy • Uporabljeni tehnični standardi • Estándares armonizados utilizados • Harmoniserade standarder som används</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>BS EN ISO 20643<br/>BS EN ISO 5349-1<br/>BS EN ISO 5349-2<br/>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 tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u specifikacijonijiet tehniki užati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice și specificațiile utilizate • Použité technické normy a specifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>B71.4<br/>ISO 2631-1<br/>ISO 21299</p>                                                                                                                                                                                                                                                                                                                                             |
| <p>The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul și data declarației • Miesto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Jacobsen, A Textron Company<br/>11524 Wilmar Blvd.<br/>Charlotte, NC 28273, USA<br/>March 26th, 2010</p>                                                                                                                                                                                                                                                                           |
| <p>Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community.<br/>Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържа техническата документация и е оторизиран да изготви техническия файл и е регистриран в общността.<br/>Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držitel technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství.<br/>Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret i nærområdet.<br/>Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied.<br/>Ühenduse registrisse kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik.<br/>Sen henkilöön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön.<br/>Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté.<br/>Unterschrift der Person, die berechtigt ist, die Erklärung im Namen des Herstellers abzugeben, die die technischen Unterlagen aufbewahrt und berechtigt ist, die technischen Unterlagen zusammenzustellen, und die in der Gemeinschaft niedergelassen ist.<br/>Υπογραφή ατόμου εξουσιοδοτημένου για την σύνταξη της δήλωσης εκ μέρους του κατασκευαστή, ο οποίος κατέχει την τεχνική έκθεση και έχει την εξουσιοδότηση να ταξινομήσει τον τεχνικό φάκελο και ο οποίος είναι διορισμένος στην Κοινότητα.<br/>A gyártó nevében meghatalmazott személy, akinek jogában áll módosítani a nyilatkozatot, a műszaki dokumentációt őrzi, engedéllyel rendelkezik a műszaki fájl összeállításához, és aki a közösségben letelepedett személy.<br/>Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante, in possesso Della documentazione tecnica ed autorizzata a costituire il fascicolo tecnico, che deve essere stabilita nella Comunità.<br/>Tās personas paraksts, kura ir pilnvarota deklarācijas sastādīšanai ražotāja vārdā, kurai ir tehniskā dokumentācija, kura ir pilnvarota sagatavot tehnisko reģistru un kura ir apstiprināta Kopienā.<br/>Asmuo, kuris yra gana žinomas, kuriam gamintojas suteikė įgaliojimus sudaryti šią deklaraciją, ir kuris ją pasirašė, turi visą techninę informaciją ir yra įgaliojotas sudaryti techninės informacijos dokumentą.<br/>Il-firma tal-persuna awtorizzata li tfassal id-dikjarazzjoni f'isem il-fabbrikant, għandha d-dokumentazzjoni teknika u hija awtorizzata li tikkompila l-fajl tekniku u li hija stabbilita fil-Komunità.<br/>Podpis osoby upoważnionej do sporządzenia deklaracji w imieniu producenta, przechowującej dokumentację techniczną, upoważnioną do stworzenia dokumentacji technicznej oraz wyznaczzonej ds. wspólnotowych.<br/>Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade.<br/>Semnătura persoanei împuternicite să elaboreze declarația în numele producătorului, care deține documentația tehnică, este autorizată să compileze dosarul tehnic și este stabilită în Comunitate.<br/>Podpis osoby poverenej vystavením vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve.<br/>Podpis osebe, pooblaščen za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti.<br/>Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad.<br/>Undertecknas av den som bemyndigad att upprätta deklarationen i tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen.</p> | <p>2006/42/EC Annex II 1.A.2</p> <p>Tim Lansdell<br/>Technical Director<br/>Ransomes Jacobsen Limited<br/>West Road, Ransomes Europark,<br/>Ipswich, IP3 9TT, England</p> <p>2006/42/EC Annex II 1.A.10</p> <p><i>Ryan Weeks</i></p> <p>Ryan Weeks<br/>VP of Engineering<br/>March 26th, 2010<br/>Jacobsen, A Textron Company<br/>11524 Wilmar Blvd,<br/>Charlotte, NC 28273, USA</p> |
| <p>Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Número de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikata numurs • Sertifikato numeris • Numru ta-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>4192121 Rev C</p>                                                                                                                                                                                                                                                                                                                                                                  |

|                       |                              |                             |                    |                         |                        |                     |                         |                          |                       |                      |
|-----------------------|------------------------------|-----------------------------|--------------------|-------------------------|------------------------|---------------------|-------------------------|--------------------------|-----------------------|----------------------|
| <b>GB</b><br>English  | <b>BG</b><br>български       | <b>CZ</b><br>čeština        | <b>DK</b><br>dansk | <b>NL</b><br>Nederlands | <b>EE</b><br>eesti     | <b>FI</b><br>suomi  | <b>FR</b><br>français   | <b>DE</b><br>Deutsch     | <b>GR</b><br>Ελληνικά | <b>HU</b><br>magyar  |
| <b>IT</b><br>italiano | <b>LV</b><br>latviešu valoda | <b>LT</b><br>lietuvių kalba | <b>MT</b><br>Malki | <b>PL</b><br>polski     | <b>PT</b><br>português | <b>RO</b><br>Română | <b>SK</b><br>slovenčina | <b>SI</b><br>slovenščina | <b>ES</b><br>Ελληνικά | <b>SE</b><br>Svenska |

## 3 ADJUSTMENTS

### 3.1 GENERAL



#### WARNING

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

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

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

1. Adjustments and maintenance should always be performed by a qualified technician. If proper adjustment cannot be made, contact an authorized Jacobsen Dealer.

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



#### CAUTION

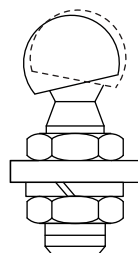
Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

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

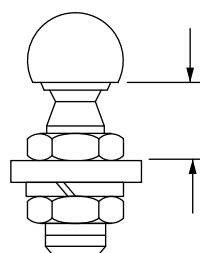
### 3.2 BALL JOINTS

When adjusting ball joints, be sure cut-out in ball joint is parallel to the mounting bracket, then secure in place.

#### INCORRECT



#### CORRECT



Must be parallel after assembly within 1/4 in. (6 mm) per foot.

Figure 3A

### 3.3 ENGINE ALTERNATOR BELT

1. Inspect and adjust new alternator belt after the first 10 hours of operation. Check and adjust every 100 hours thereafter.
2. Adjust the alternator pulley so the belt deflects 9/32 to 11/32 in. (7 - 9 mm) with 22 lb. (10 kg) push at midpoint between pulleys. Refer to your engine manual.
3. To adjust, loosen alternator mounting bolts (**A**), and adjust alternator until the proper belt tension is achieved.

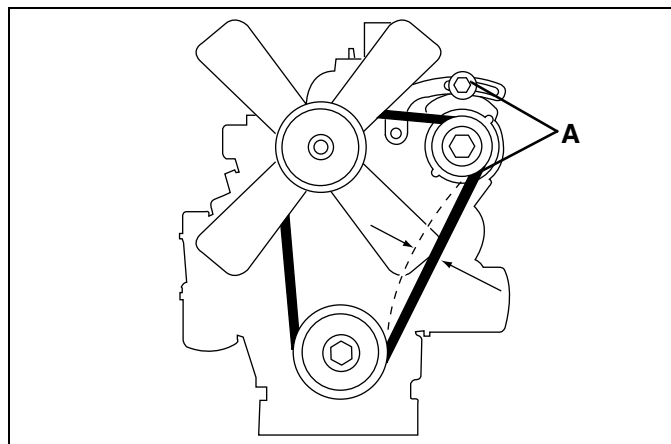


Figure 3B

## 3.4 BRAKE PEDAL

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 **(C)**.
3. By hand, pull cable behind adjusting nut **(B)** away from pedal until brake pads just contact brake disk. Thread adjusting nut **(B)** up until it contacts the mounting plate. Tighten nut **(C)** up to lock adjustment in place. Torque nut **(C)** to 20 ft. lb. (27 Nm). Do not over torque or turn cable.
4. Repeat for second cable.
5. 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 **(B)** as required.

With parking brake engaged, and properly adjusted, mower should not be able to drive through brakes.

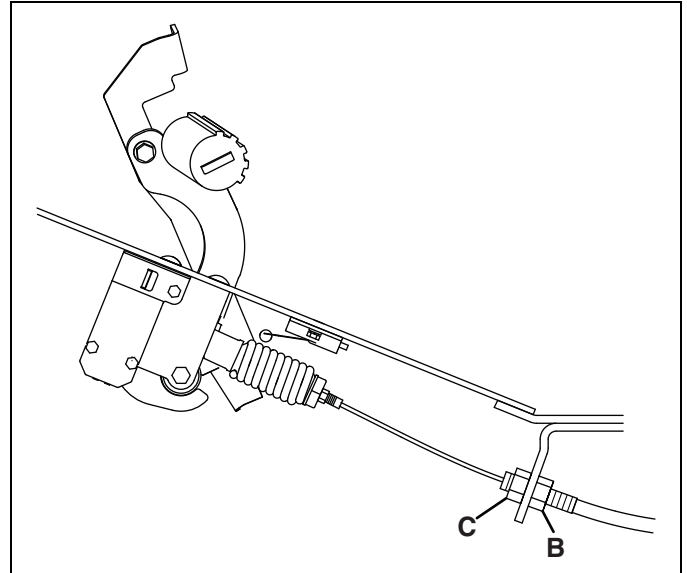


Figure 3C

## 3.5 PARKING BRAKE SWITCH

Check parking brake switch adjustment whenever Interlock System is not operating correctly. Switch contacts should be closed with parking brake engaged and should open when parking brake is disengaged.

1. Loosen parking brake switch hardware **(D)**.
2. Adjust switch **(E)** as required so switch contacts close with the parking brake engaged, and open when parking brake is disengaged.

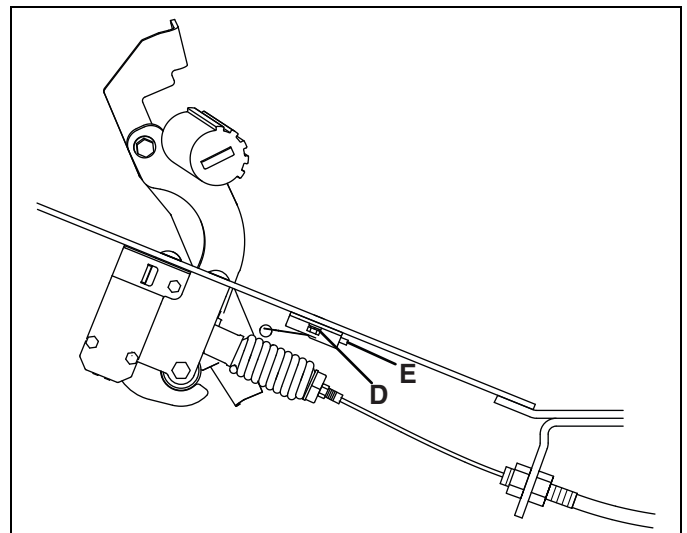


Figure 3D

## 3 ADJUSTMENTS

### 3.6 CRUISE CONTROL SWITCH

If the cruise control does not disengage when brake pedal is depressed, cruise control switch must be adjusted.

1. Loosen hardware **(F)**.
2. Adjust switch **(G)** so contacts are closed with the brake disengaged and open as soon as the brake pedal is pressed.
3. Tighten hardware to secure switch and recheck switch operation.

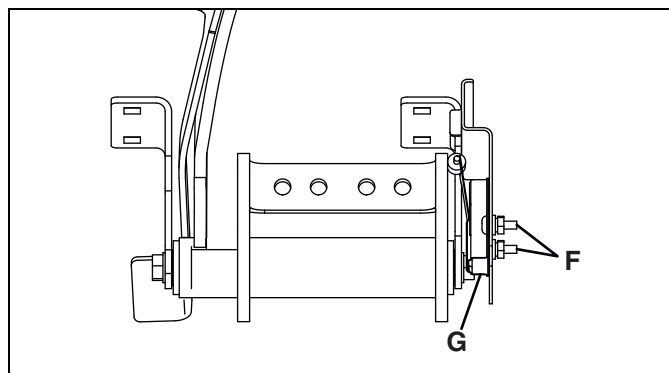


Figure 3E

### 3.7 MOW SPEED

Cutting quality is better at speeds well below the transport speed of the mower. An initial mow speed of seven to eight 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 **(R)**, and adjust stop screw up to reduce speed, down to increase speed. Tighten nut to hold adjustment in place.

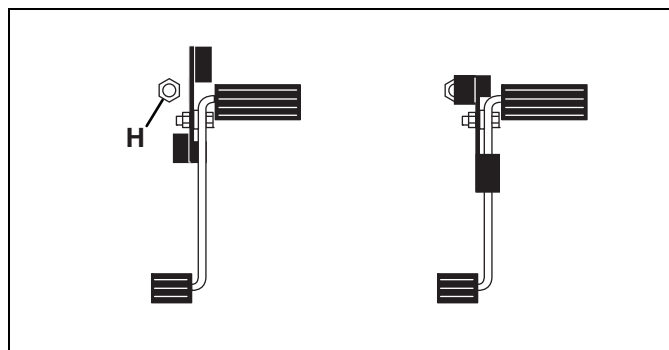


Figure 3F

### 3.8 WEIGHT TRANSFER

1. Adjusting weight transfer knob affects lowering time of the lift arms and also affects ground pressure at each tire.
2. Loosen thin knob **(J)**, and adjust large knob **(K)** to increase or decrease cutting unit weight. Knob adjusts all three mowers simultaneously.
  - a. Increasing cutting unit weight allows mowers to follow contours of ground better and reduces mower ground pressure.
  - b. Decreasing cutting unit weight increases mower weight, which increases traction on slopes.
  - c. Once desired ground pressure has been obtained, tighten thin knob **(J)**.

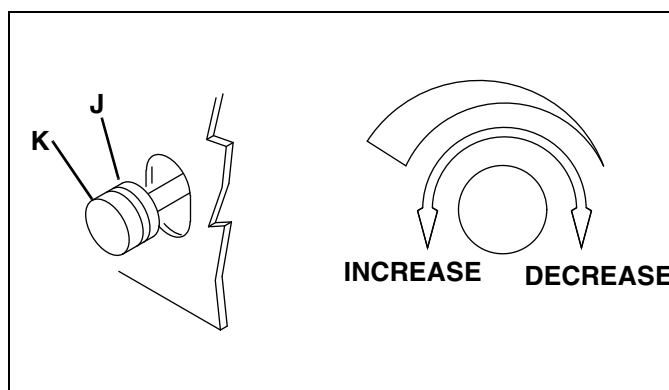


Figure 3G

#### NOTICE

If cutting unit weight is set too low, wing cutting units will not lower to the ground from transport position.

## 3.9 HYDRO NEUTRAL

If the mower “creeps” in either direction, the Neutral position must be adjusted. The mower may tend to “creep” if the hydraulic oil is cold. Operate mower for 15 minutes before determining if adjustment is needed.



### WARNING

Carbon monoxide in the exhaust fumes can be fatal when inhaled. Any adjustments or repairs performed while the engine is running must be made with ample ventilation.

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. Place a small amount of lubricating oil on all linkage pivot points.
2. Hoist mower so all four tires are off the ground and place jack stands under the frame to prevent accidental lowering of the mower during adjustment.
3. Start engine and set throttle to full speed.
4. Disengage parking brake and place 2WD/4WD Switch in 2WD position.
5. Check rotation of drive tires and adjust traction return control (**L**) with the engine running.

- a. To adjust for forward creep, loosen nut (**M**), and turn nut (**N**) in until tires stop rotating. Hold nut (**N**) in place and tighten nut (**M**).
  - b. To adjust for reverse creep, loosen nut (**M**), and turn nut (**N**) out until tires stop rotating. Hold nut (**N**) in place and tighten nut (**M**).
6. If mower continues to creep, check position of traction return control (**L**).
    - a. The return control (**L**) must be parallel to traction arm (**O**).
    - b. Loosen hardware (**P**) and adjust bracket (**Q**) until control is parallel to arm.

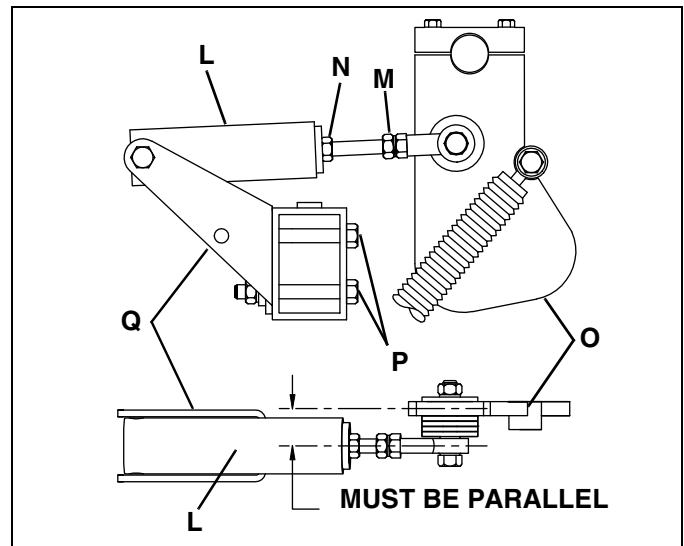


Figure 3H

## 3.10 REVERSE SENSING SWITCH

1. Loosen switch hardware (**R**).
2. Adjust switch (**S**) so switch contacts are open with switch roller contacting the adjustment block (**T**) and the traction pedal in Neutral and close when pedal is moved in the forward direction.
3. Secure switch adjustment and test operation.
4. If adjustment cannot be made, contact your authorized Jacobsen Dealer.

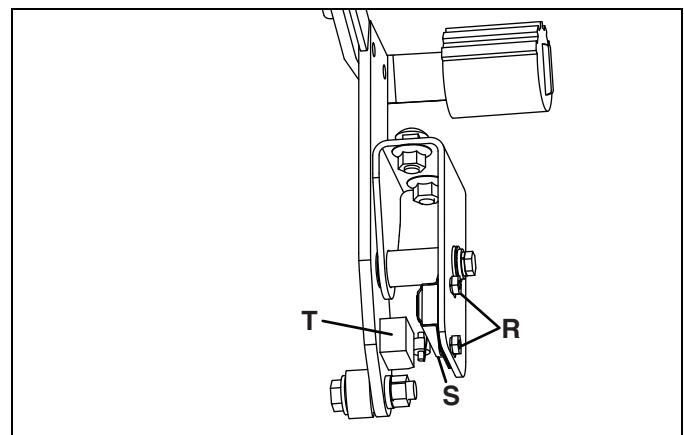


Figure 3I

## 3 ADJUSTMENTS

### 3.11 STEERING TOE IN

“Toe in” should be adjusted from  $X + 1/16$  in. (1.5 mm).

1. Turn wheels to straight ahead position.
2. Loosen tie rod jam nuts (**U**).
3. Adjust tie rod and retighten jam nuts.
4. After adjusting “Toe in” it may be necessary to re-adjust steering stop bolts.

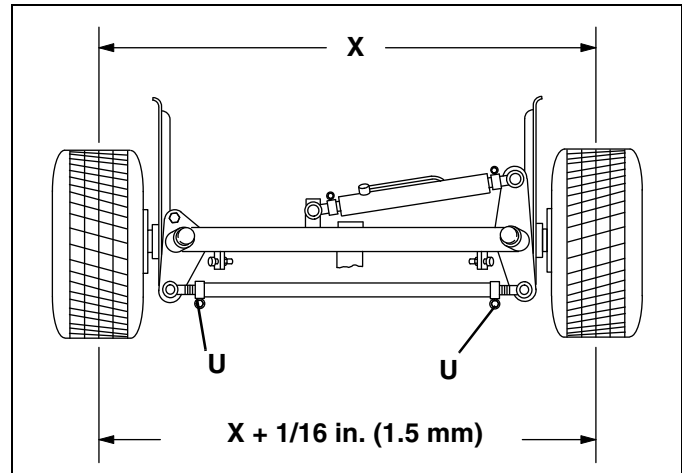


Figure 3J

### 3.12 TURNING RADIUS

1. Adjust steering cylinder (**V**) for equal angle steering in both directions. Check that ball joints are threaded equally into both ends.
2. Loosen both nuts (**Y**) and turn bolts completely in against mounting block.
3. Loosen screw and nut (**W**) on locking clamp. Turn cylinder rod to obtain desired length then retighten hardware.
4. Fully extend and retract steering cylinder and readjust steering stop bolts.

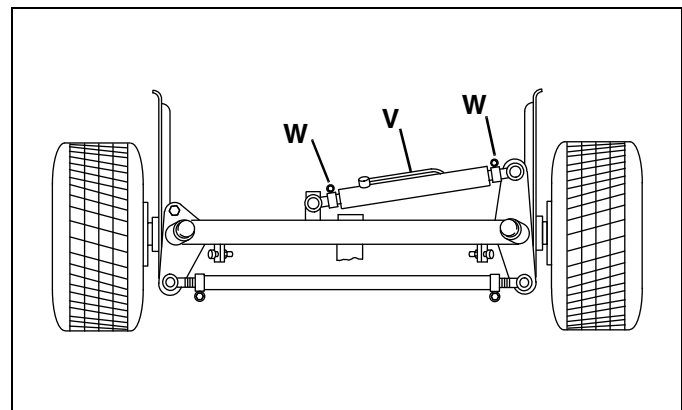


Figure 3K

### 3.13 STEERING STOP BOLTS

Do not adjust the stop bolts until the “Toe in” and steering cylinder have been adjusted.

1. Loosen both nuts (**Y**) and turn bolts completely in against mounting block.
2. Fully retract steering cylinder. Adjust left side stop bolt until it just touches steering arm. Tighten left side nut (**Y**).
3. Fully extend steering cylinder. Adjust right side stop bolt until it just touches steering arm. Tighten right side nut (**Y**).

**NOTE:** *Steering stop bolts must not limit the travel of the steering cylinder rod stroke.*

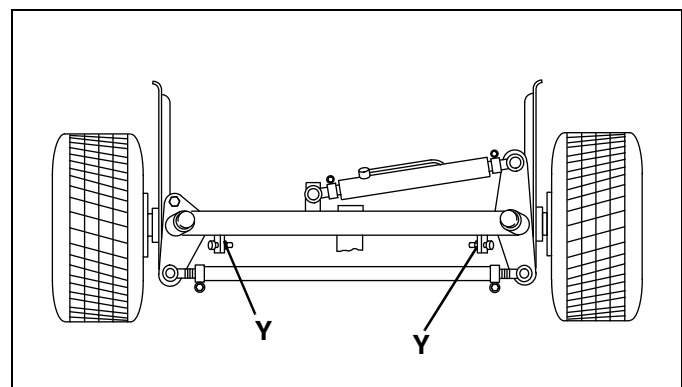


Figure 3L

## 3.14 CUTTING HEIGHT

Level the front mower before setting the cutting height for the first time. Do not remove the cutting units from the mower to change cutting height.

Cutting height for decks can be adjusted from 1 to 5-1/2 in. (25-140 mm) in 1/2 in. (13 mm) increments. Actual cutting height may vary somewhat from the heights given depending on turf conditions, tire variances and other factors.

### NOTICE

When cutting undulating areas, lower cutting heights may cause scalping. Adjust height accordingly to prevent turf damage.

1. Park the mower on a flat, level surface. Raise the decks until the caster wheels are raised off the ground enough so caster wheels can be removed from deck. Place blocks under decks so they are supported on all sides.



### WARNING

To prevent serious injury, lower deck until it is resting completely on the supports. This will prevent it from accidentally lowering while making adjustments. Disengage all drives, engage parking brake, stop engine, and remove ignition key.

2. **Figure 3M** shows the height adjustment decal for the casters.

Column 1 - Height of Cut

Column 2 - Arrangement of Spacers

Column 3 - Arm Position

Column 4 - Wing Mower Mounting Location

Column 5 - Front Mower Mounting Location

3. Adjust spacers in quantity listed. Store extra spacers on top of spindle. Always leave one thin spacer above and below caster arm.
4. For cutting heights 3 in. (76 mm) and below, caster arms should be assembled to upper set of holes **(A)**. For cutting heights above 3 in. (76 mm), caster arms should be assembled to lower set of holes **(B)**.

### NOTICE

After setting cutting height, fully lower cutting units onto a flat, hard surface, stop engine, and measure the distance from the blade tips to the ground. If the distance is different from the desired cutting height, make adjustments as necessary. Cut in a small test area and make any final adjustments for desired turf appearance.

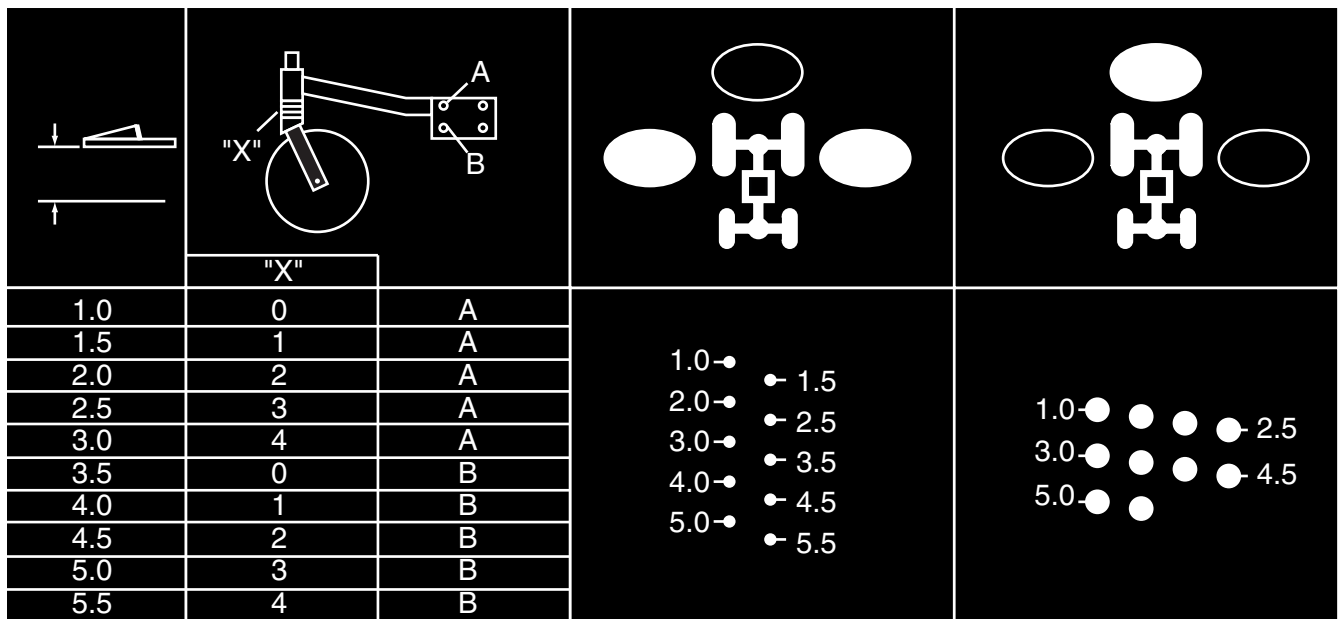


Figure 3M

## 3 ADJUSTMENTS

### 3.15 LEVELING FRONT MOWER

1. Before leveling the front deck, the mower tires, and caster wheels must be properly inflated. The cutting height is directly related to the radius of the tire.
2. Set the cutting height of the front mower to 5-1/2 in. (140 mm).
3. Rotate all blades so that one end of the blade **(A)** is pointing forward.
4. Fully lower front deck. Measure from the ground to point **(A)** and from the ground to point **(B)**. Point **(B)** must be 1/8 in. (3 mm) higher than point **(A)**.
5. Add or remove shims **(C)** as required between bumper pad **(D)** and lift arm **(E)**.
6. Once the front mower has been properly leveled, the cutting height may be readjusted without changing the shims. It may be necessary to re-level the deck if there is a change to the tires.

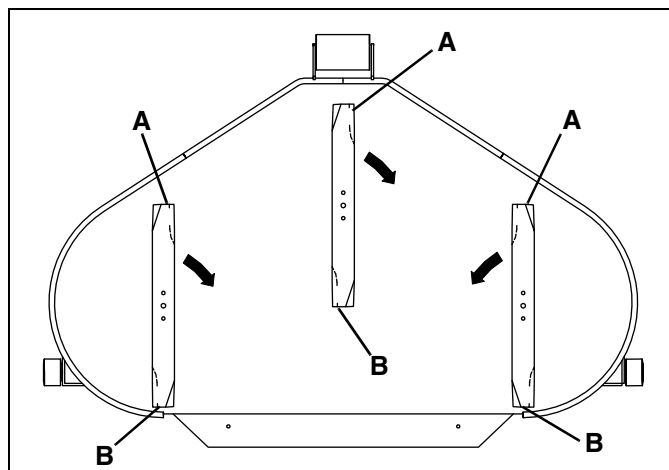


Figure 3N

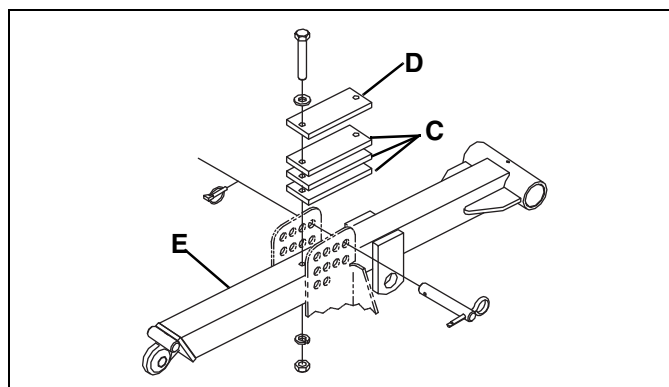


Figure 3O

### 3.16 SERVICING FRONT DECK

The front deck can be raised and tilted up to improve access to the cutting unit and blades for service and cleaning. Be sure to disengage all drives, engage parking brake, stop engine and remove ignition key before working around deck.

#### To tilt front deck up to its service position:

1. Fully raise front and right wing deck. Stop engine.
2. Remove height of cut pins from front deck and carefully lift deck to a perpendicular position.
3. Use height of cut pin on left front lift arm to pin deck in service position.
4. Start engine and lower front deck to the ground. Stop engine and remove ignition key.

#### To return deck to service:

1. Start engine and fully raise front deck. Stop engine. Remove pin from left front lift arm and slowly lower front deck.
2. Install height of cut pins in correct set of holes. Start engine and lower front deck.

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

| METRIC FASTENERS |            |                                                                                         |           |                                                                                         |            |                                                                                           |            |                                                                                            |            |                                      |
|------------------|------------|-----------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------|------------|--------------------------------------|
| SIZE             | UNITS      |  4.6 |           |  8.8 |            |  10.9 |            |  12.9 |            | 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)                            |

## 3.18 SPECIFIC TORQUE

Tie Rod Ball Joints (2): 30 ft lb. (40 Nm).  
 Steering Cylinder Ball Joints (2): 40 ft lb (54 Nm).  
 Blade Adapter Bolts (14): 35 - 40 ft lb (47 - 54 Nm).  
 Center Blade Bolts (7): 67-83 ft lb (91-112 Nm).

Rear Wheel Bolts (10): 40 - 50 ft lb (54 - 68 Nm).  
 Front Wheel Bolts (10): 85-95 ft lb (115 - 129 Nm)

## 4 MAINTENANCE

### 4.1 GENERAL



#### WARNING

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

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

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

### 4.2 INSPECTING BLADES

1. Every 50 hours of operation or whenever blades are removed from mower, carefully examine the blades to make sure they are in good operating condition. Blades showing any bends (**G**), grooves (**H**) or cracks (**J**) must be replaced.



#### CAUTION

Use care when checking blades to avoid pinching hands and fingers between blade ends.



#### WARNING

Never attempt to straighten, weld, or repair a damaged blade. Always replace a damaged blade.

2. Any of the above conditions can cause a piece of the blade to break away and be thrown from the mower causing very serious injury to bystanders or property damage.
3. A bent blade could have a microscopic crack (**G**) that can grow and allow a piece of the blade to break. Bent blades will also create vibration and other stress on the machinery.
4. Dust or sand particles can wear a dangerous groove in the blade (**H**) between the air vanes and the flat portion of the blade that will rapidly grow and produce a crack (**J**) permitting a piece of the vane to break off.

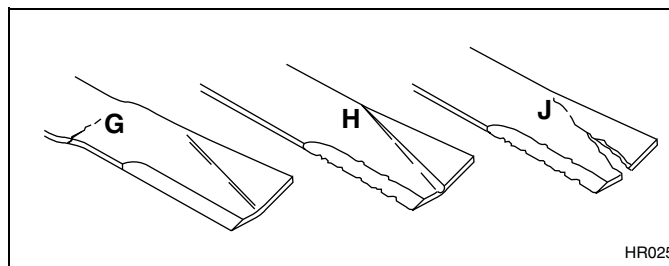


Figure 4A

## 4.3 SHARPENING BLADES

1. Place a wooden block between the blade and mower housing to stop the blade from moving. To remove blade, turn screw holding blade counterclockwise.



### WARNING

The mower blades can develop sharp edges. Use caution whenever servicing and handling.

2. When dressing or sharpening the blade, do not follow the original pattern of grind as shown in (A). Grind new cutting edges at an angle as shown in (B).

If the maximum total loss of the blade reaches 1/2 in. (13 mm), do not sharpen further, replace blade.



### WARNING

Resharpener the blade beyond the allowable 1/2 in. (13 mm) may allow blade tip to break off and be thrown from the mower. Such an incident can cause very serious injury to bystanders and/or property damage.

3. Make sure an equal amount of material is removed from both sides of blade to prevent having an unbalanced blade. An unbalanced blade will cause excessive vibration and may damage the mower.
4. Use a blade balancer (JAC 5016) to check the blade after sharpening.
5. Identify the three clockwise rotation (D) and four counter-clockwise rotation (E) blades. The blades for clockwise rotation are installed on the left front deck motor, the outside left wing deck motor, and the inside right wing deck motor. (Rotation is determined by normal motor rotation viewed from top of deck).
6. Install blades so cutting edges (C) face the direction of rotation as shown in **Figure 4C**. Air vane of blade must face in toward deck housing.

Torque center mounting screw holding blade to 75 ft. lb. (102 Nm).

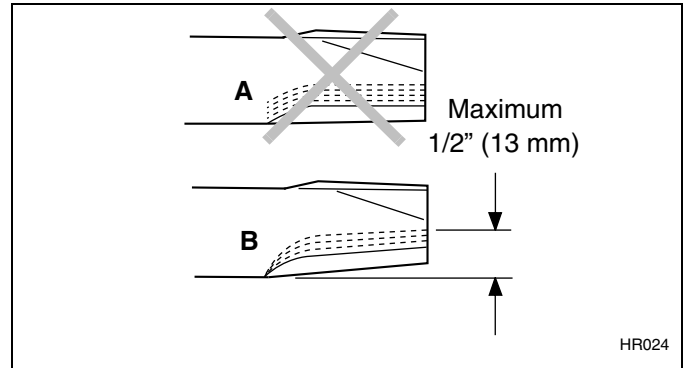
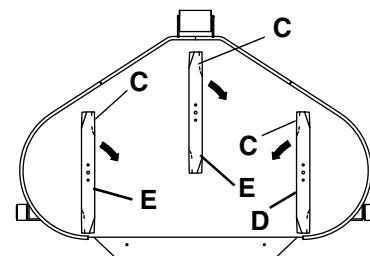
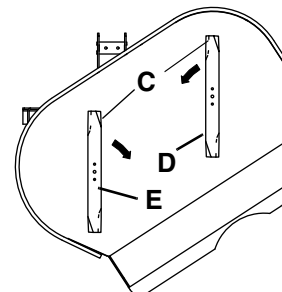


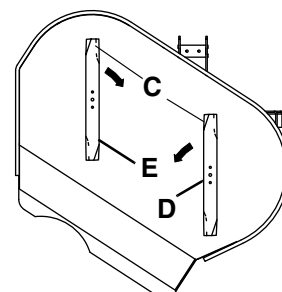
Figure 4B



Bottom view of front deck  
in its service position



Left Side



Right Side

Bottom view of side decks  
raised to their transport position.

Figure 4C

## 4 MAINTENANCE

### 4.4 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.

#### 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.

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.

### 4.5 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 25 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 SAE 10W30/10W40 |
| 32 to 77°F (0 to 25°C) | SAE 20W or SAE 10W30/10W40 |
| Below 32° (0°C)        | SAE 10W or SAE 10W30/10W40 |

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

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

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 25 hours of operation.
4. Check and adjust fan and alternator belts.
5. Refer to **Section 6.3** and Engine Manual for specific maintenance intervals.

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

**Important:** The normal engine operating temperature is less than 220° F (104° C). If the engine temperature rises by more than 10° F (6° C) above normal, there is an indication that the cooling system may not be functioning properly.

The warning horn will sound when the temperature reaches 230° F (110° C). To prevent damage to the engine, never allow the engine to operate above 230° F. Stop the machine, disengage all drives and operate the engine at low idle for 5 minutes.

## 4.6 AIR FILTER

**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.

Air cleaner servicing is required when air cleaner service light **(F)** comes on during normal operation. Empty dust cup daily.

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

1. Carefully clean the inside of the filter housing without allowing dust into the air intake.
2. Inspect the new element. Do not use a damaged element and never use an incorrect element.

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

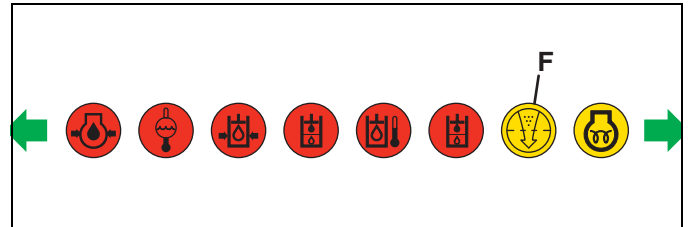


Figure 4D

## 4.7 FUEL

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

### WARNING

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

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

Do not spill fuel. Clean spilled fuel immediately.

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

Be sure to reinstall and tighten fuel cap securely.

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

## 4.8 FUEL SYSTEM

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

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

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

## 4 MAINTENANCE

### 4.9 BATTERY

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



#### CAUTION

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

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

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

Verify battery polarity before connecting or disconnecting the battery cables.

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



#### WARNING

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

### 4.10 JUMP STARTING

Before attempting to "jump start" the mower check the condition of the discharged battery. See **Section 4.9**



#### WARNING

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

#### When connecting jumper cables:

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

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

### 4.11 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 4.9**. Read the Battery and Charger's manual for specific instructions.

## 4.12 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.

### NOTICE

Care must be used at all times to avoid any contamination of the hydraulic system. Follow recommended maintenance practices and adhere to scheduled intervals for hydraulic oil and filter changes. Introduction of any type of contamination may result in operating issues by causing valves to stick or leak internally.

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.

## 4.13 HYDRAULIC OIL

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

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

Always replace the hydraulic filter when changing oil.

### To change hydraulic oil:

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
  - a. Oil temperature should be between 60° to 90°F (16° to 32°C). Do not check oil level when oil is hot.
  - b. The main oil tank level should be 2 inches below filler neck. Do not overfill.
2. Drain and replace the hydraulic oil yearly or after a major component failure, or if you notice the presence of water, foam, or a rancid odor.

3. Remove drain plug from bottom of main tank and loosen or remove breather cap. Check and clean the breather cap, replace as necessary.
4. After oil has drained install drain plug and fill with Jacobsen Hydraulic oil.
5. Purge air from system.
6. Operate all mower functions for about 5 minutes to purge air out of the system and stabilize the oil level. Fill tank to full level.

## 4 MAINTENANCE

---

### 4.14 HYDRAULIC OIL FILTERS

---

The hydraulic system is protected by two 10 micron filters.



#### WARNING

Charge filter is under pressure. Remove filter slowly to prevent personal injury.

#### To replace hydraulic oil filter:

1. Remove the old filter.
2. Fill new filter with oil then install new filter. Hand tighten only.
3. Operate engine at idle speed with hydraulic system in neutral for five minutes.
4. Check hydraulic oil level and fill as required.

### 4.15 ELECTRICAL SYSTEM

---



#### CAUTION

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

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

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

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

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

### 4.16 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.

### 4.17 TIRES

---

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
1. Check the pressure with an accurate, low pressure tire gauge.
2. Keep tires inflated to:  
Front - 16-20 psi - (1.10-1.38 BAR)  
Rear - 10-12 psi (0.69-0.83 BAR)

Casters - 20-25 psi (1.38-1.72 BAR)



#### CAUTION

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

## 4.18 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.
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. See **Section 3.18**.

## 4.19 CARE AND CLEANING

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

### NOTICE

Do not wash any portion of the equipment while it is hot or with engine running. 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, or any other electrical components, or at bearing housings and seals.
4. Clean all plastic and rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.

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



### CAUTION

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



### WARNING

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

## 4.20 ROLLOVER PROTECTION STRUCTURE (ROPS)

A Rollover Protection System (ROPS) is included with this mower. Inspect it periodically and follow operating procedures described in Safety and Operation Manual.



### CAUTION

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

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 Jacobsen Parts List.
4. Only operate the mower with the ROPS folded when absolutely necessary. **There is no roll over protection with the ROPS folded.**
5. Seat belts must be worn whenever operating the mower with the ROPS in the raised and locked position. Always keep seat belt snugly adjusted. **DO NOT** use seat belts with the ROPS folded.

## 4 MAINTENANCE

### 4.21 RADIATOR AND OIL COOLER



#### 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.

1. Check coolant level daily. Radiator should be full and recovery bottle should be up to the **cold** mark.
2. Drain and refill annually. Remove the radiator cap, open the engine block drain and the radiator drain. Empty and clean the recovery bottle.
3. 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.
4. Keep the hood and screen clean. Remove leaves or grass clippings from screen daily.
5. Loosen wing nuts on side of oil cooler and tilt oil cooler back to cleaning position.
6. Open trap door under the radiator and oil cooler, then place a piece of cardboard, to act as a deflector, between the radiator and oil cooler.



#### WARNING

To prevent burns, do not touch muffler or muffler shield when opening trap door. Surface temperatures may exceed 150° F (66° C).

7. Use compressed air, up to 30 psi (2.06 BAR), to clean the radiator and oil cooler fins.
8. Direct air through the engine side of radiator towards rear of mower and through rear of oil cooler towards the front of mower.
9. Remove cardboard and return oil cooler to its upright position. Tighten wing nuts. Clean the entire compartment underneath the radiator and close trap door.

10. Check and tighten the fan belt. Replace clamps and hoses every two years.
11. If you continue to experience engine or hydraulic system overheating, have to add coolant more than once a month, or add more than one quart at a time, have a authorized Jacobsen Dealer check the cooling system.

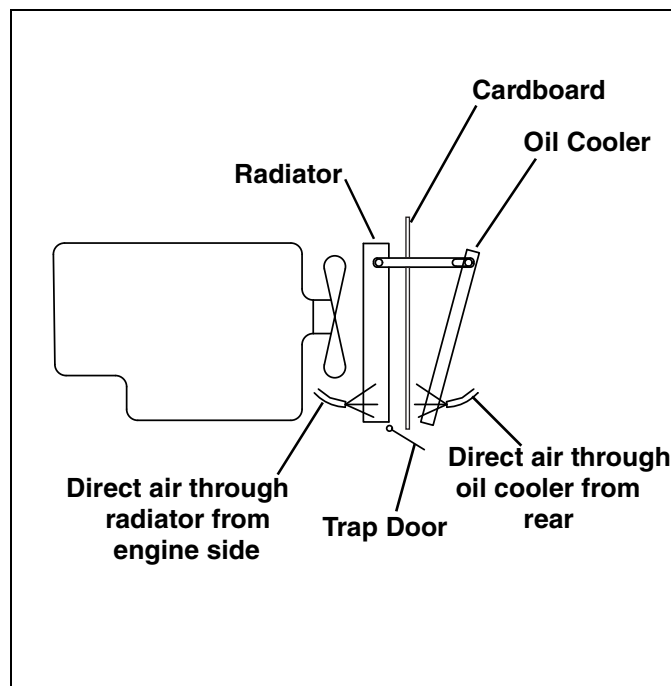


Figure 4E

## 4.22 STORAGE

### General

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

### Battery

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

### Engine (General)

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

3. Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.
4. If storing indoors, drain fuel from tank.
5. Close fuel shut off valve.

### Cutting Units

1. Wash the cutting units thoroughly, then repair and paint any damaged or exposed metal.
2. Lubricate all fittings and friction points.



## CAUTION

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

### After Storage

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



## WARNING

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

## 5 TROUBLESHOOTING

### 5.1 GENERAL

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

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

## 6.1 GENERAL



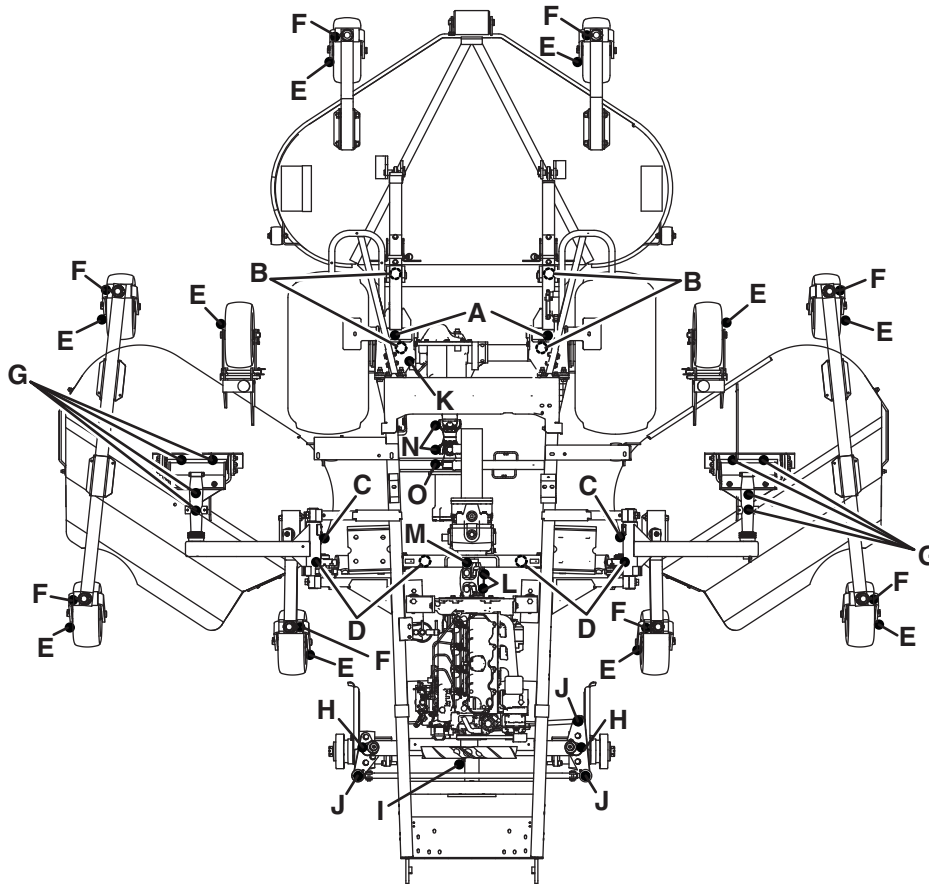
### WARNING

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

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

2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.
3. Periodically apply a small amount of lithium based grease to the seat runners.
4. For smooth operation of all levers, pivot points and other friction points that are not shown on the lubrication chart apply several drops of SAE 30 oil every 40 hours or as required.
5. Grease fittings every 25 hours.

## 6.2 LUBRICATION CHART



### Description

- A** Front mower arm pivot
- B** Front lift cylinders
- C** Wing mower arm pivot
- D** Wing mower lift cylinders
- E** Caster Wheels
- F** Caster Arms
- G** Deck Pivot Housing

### Fittings

- (2)
- (4)
- (2)
- (4)
- (10)
- (8)
- (8)

- H** Steering Axle Spindle Housing (2)
- I** Steering Axle Pivot (1)
- J** Steering Axle Ball Joints (4)
- K** Brake Pedal Pivot (1)
- L** Pump Drive Shaft Crosses (2)
- M** Pump Drive Shaft Spline (2)
- N** Axle Drive Shaft Crosses (2)
- O** Axle Drive Shaft Spline (1)

## 6 MAINTENANCE & LUBRICATION CHARTS

### 6.3 MAINTENANCE CHARTS

Recommended Service and Lubrication Intervals

|                           | Every<br>8-10<br>Hours | Every<br>25<br>Hours | Every<br>100<br>Hours | Every<br>250<br>Hours | Every<br>400<br>Hours | Every<br>500<br>Hours | Every<br>1000<br>Hours | Yearly | See<br>Section | Lubricant<br>Type |
|---------------------------|------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|--------|----------------|-------------------|
| Air Filter (Cab)          | I                      |                      |                       | R                     |                       |                       |                        |        |                |                   |
| Air Filter (Engine)       | I                      |                      |                       |                       |                       |                       |                        | R****  | 4.6            |                   |
| Battery Charge            |                        | I                    |                       |                       |                       |                       |                        |        | 4.9            |                   |
| Belts                     | I-A*                   | I-A                  |                       |                       |                       | R                     |                        |        | 4., 3.2        |                   |
| Brake                     |                        | I-A                  | A                     |                       |                       |                       |                        |        | 3.4            |                   |
| Cooling System            | I-C-A                  |                      |                       |                       |                       |                       |                        | R      | 4.21           | IV                |
| Electrical System         |                        | I*                   | I                     |                       |                       |                       |                        |        | 4.15           |                   |
| Engine Oil                | I                      | R*                   | R                     |                       |                       |                       |                        |        | 4.5            | II                |
| Engine Oil Filter         |                        | R*                   | R                     |                       |                       |                       |                        |        |                |                   |
| Front Axle                | I-A                    |                      |                       |                       |                       |                       |                        | R      |                | V                 |
| Fuel System               |                        | I                    |                       |                       |                       |                       |                        |        | 4.8            |                   |
| Fuel Filter               |                        |                      |                       |                       |                       |                       |                        | R      | 4.8            |                   |
| Grease Fittings - All     | L                      | L                    | L                     |                       |                       | L                     |                        |        | 6.2            | I                 |
| Hydraulic Hoses and Tubes | I***                   |                      |                       | I                     |                       |                       |                        |        | 4.12           |                   |
| Hydraulic Oil             | I-A                    |                      |                       | R**                   |                       |                       |                        |        | 4.13           | III               |
| Hydraulic Oil Filter (2)  |                        | R*                   |                       | R****                 |                       |                       |                        |        | 4.14           |                   |
| Muffler and Exhaust       |                        | I                    |                       |                       |                       |                       |                        |        | 4.16           |                   |
| Radiator Screens          | I-C/AR                 |                      |                       |                       |                       |                       |                        |        | 4.21           |                   |
| Tires                     | I-A                    | A                    |                       |                       |                       |                       |                        |        | 4.17           |                   |

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

\* Indicates initial service for new machines.

\*\* Or every two years whichever comes first.

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

\*\*\*\* Or when service indicator light comes on.

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

II - Engine Oil - See Section 4.5.

III - Use Jacobsen hydraulic fluid: Capacity: 5 gallons (19 Liters). Order Part No. 2500548 carton, containing two 2-1/2 gal. (9.5 liter) bottles or Part No. 2500546 containing 5 gal. (19 liters), pail.

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

V - Capacity 2 Quarts 80W-90 gear lube with 5 oz. of limited slip additive.



## 8 PARTS LIST

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### 8.1 HOW TO USE THE PARTS CATALOG

---

#### Abbreviations

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

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

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

#### Indented Items

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

| Item | Part No. | Qty | Description                 | Serial Numbers/Notes                          |
|------|----------|-----|-----------------------------|-----------------------------------------------|
| ● 1  | 123456   | 1   | Mount, Valve                | <i>Indicates a piece part</i>                 |
| 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 |                                               |

### 8.2 HOW TO ORDER PARTS

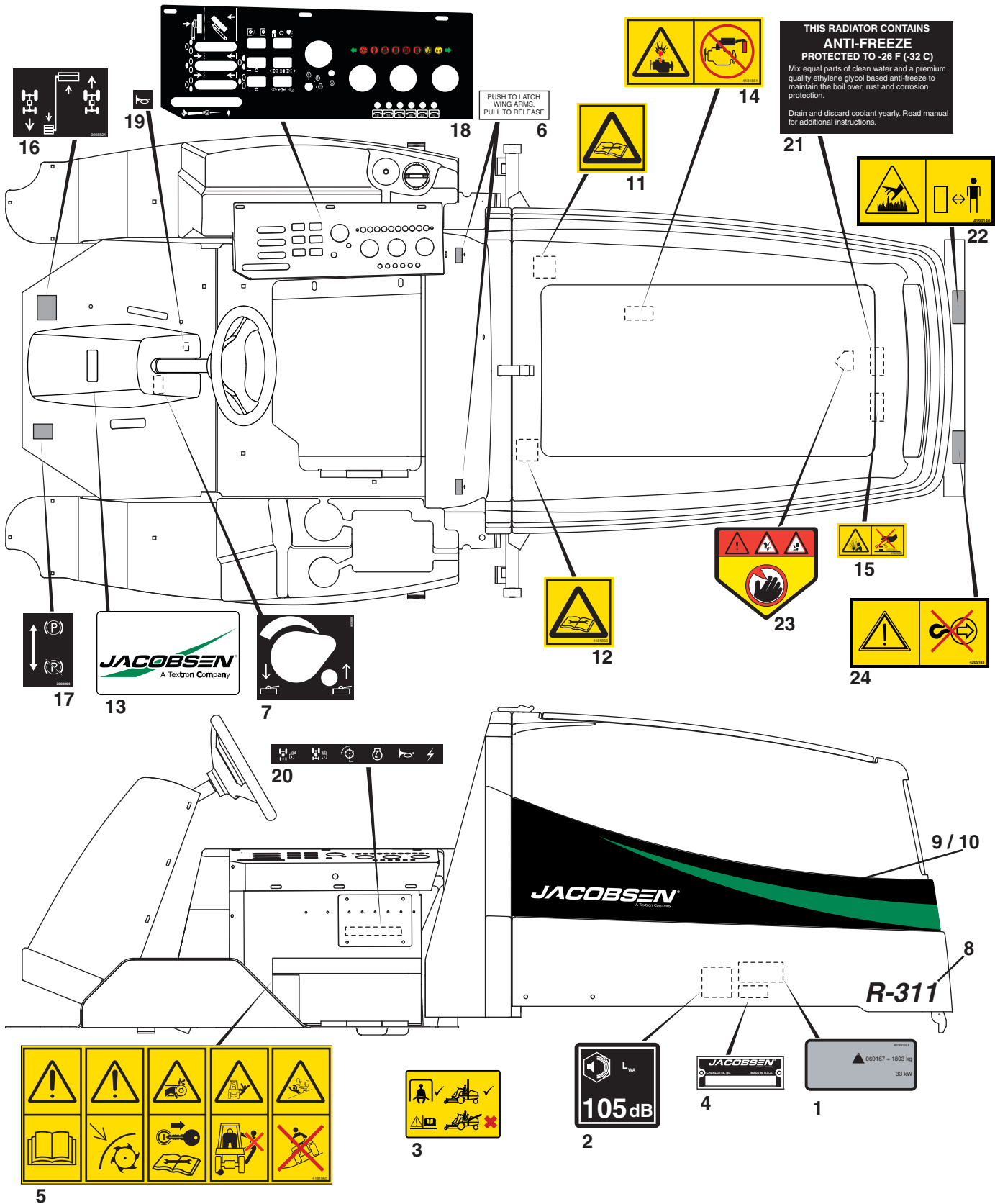
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1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate of your product.
4. Order by the quantity 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.**

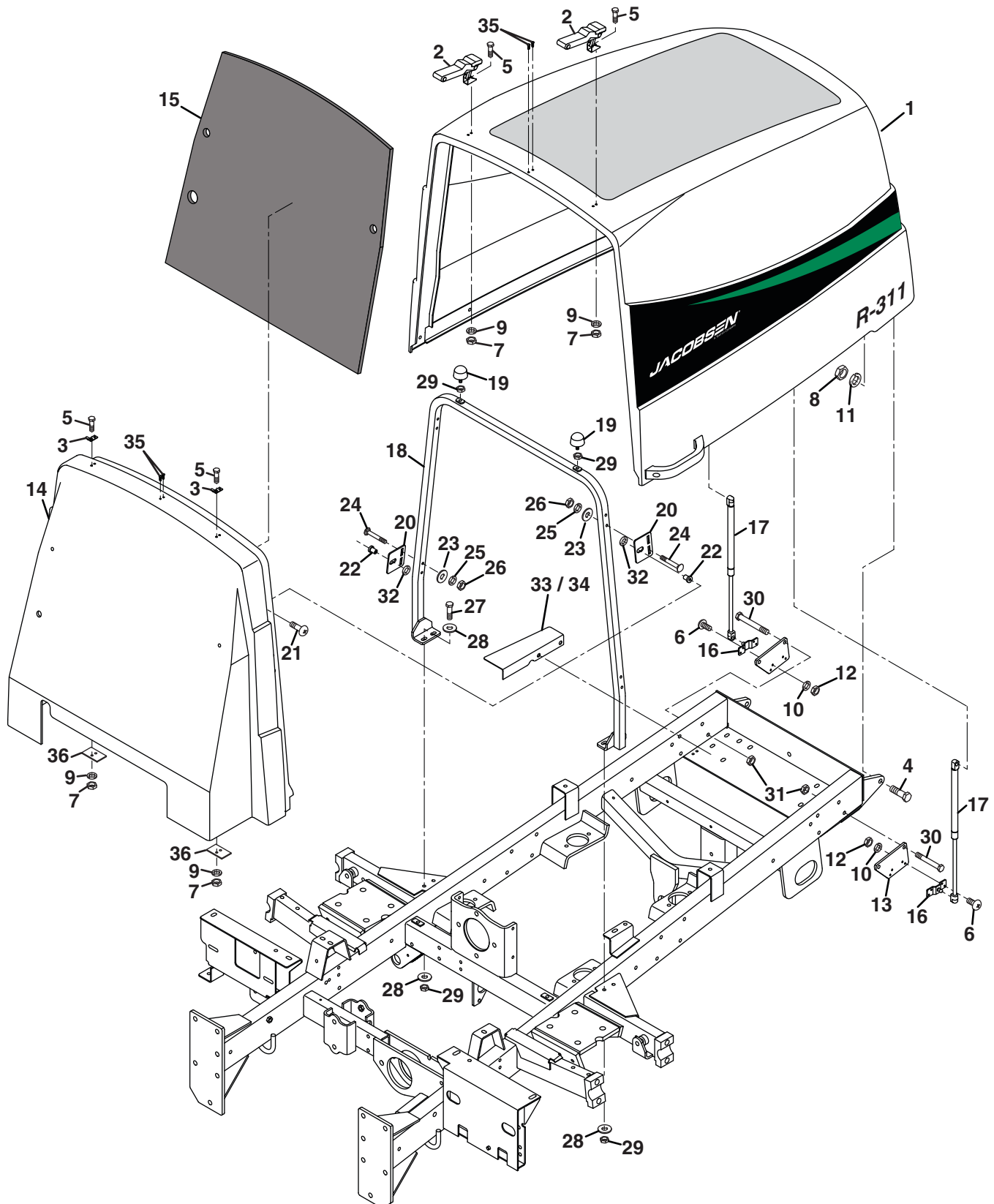
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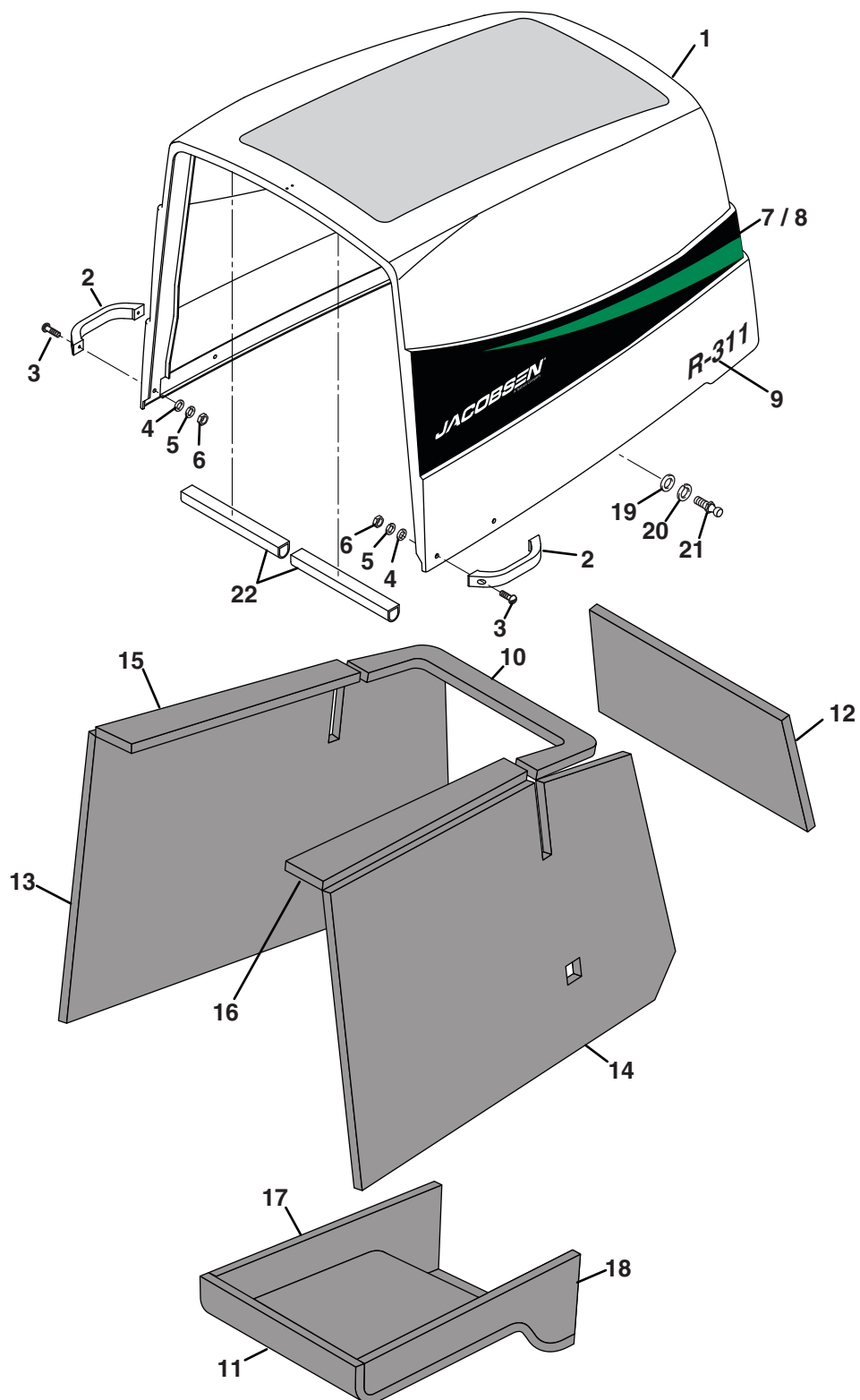
| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes             |
|------|----------|------|-----------------------------------|----------------------------------|
| 1    | 4199160  | 1    | Decal, R-311 Weight               | Located on right frame rail      |
| 2    | 4117468  | 1    | Decal, 105 dB Noise               | Located on right frame rail      |
| 3    | 4194260  | 2    | Decal, ROPS Deployment            | Located on ROPS folding section  |
| 4    | REF      | 1    | Serial Plate                      | Located on right frame rail      |
| 5    | 4181865  | 1    | Decal, Warning                    |                                  |
| 6    | 366608   | 2    | Decal, Wing Transport Lock Cable  |                                  |
| 7    | 4192000  | 1    | Decal, Weight Transfer            |                                  |
| 8    | 4187682  | 2    | Decal, R-311                      |                                  |
| 9    | 4202200  | 1    | Decal, Left Side Stripe           |                                  |
| 10   | 4202201  | 1    | Decal, Right Side Stripe          |                                  |
| 11   | 4181863  | 1    | Decal, See Manual for Maintenance | Located on Charge Filter Bracket |
| 12   | 4181863  | 1    | Decal, See Manual for Maintenance | Located on Hydraulic Tank        |
| 13   | 4182386  | 1    | Emblem, Jacobsen                  |                                  |
| 14   | 4181861  | 1    | Decal, Start Assist               | Located on Air Cleaner           |
| 15   | 4181862  | 1    | Decal, Radiator Warning           | Located on Radiator              |
| 16   | 3008521  | 1    | Decal, Accelerator                |                                  |
| 17   | 3008004  | 1    | Decal, Brake                      |                                  |
| 18   | 4170760  | 1    | Decal, Instrument Panel           |                                  |
| 19   | 366866   | 1    | Decal, Symbol                     | Use Horn Portion of Decal Only   |
| 20   | 3002565  | 1    | Decal, Relay Identification       | Located on inside of relay cover |
| 21   | 363995   | 1    | Decal, Antifreeze                 | Located on Radiator              |
| 22   | 4199140  | 1    | Decal, Heat Warning               |                                  |
| 23   | 4164381  | 1    | Decal, Danger                     | Located on Fan Shroud            |
| 24   | 4205183  | 1    | Decal, Towing Warning             |                                  |

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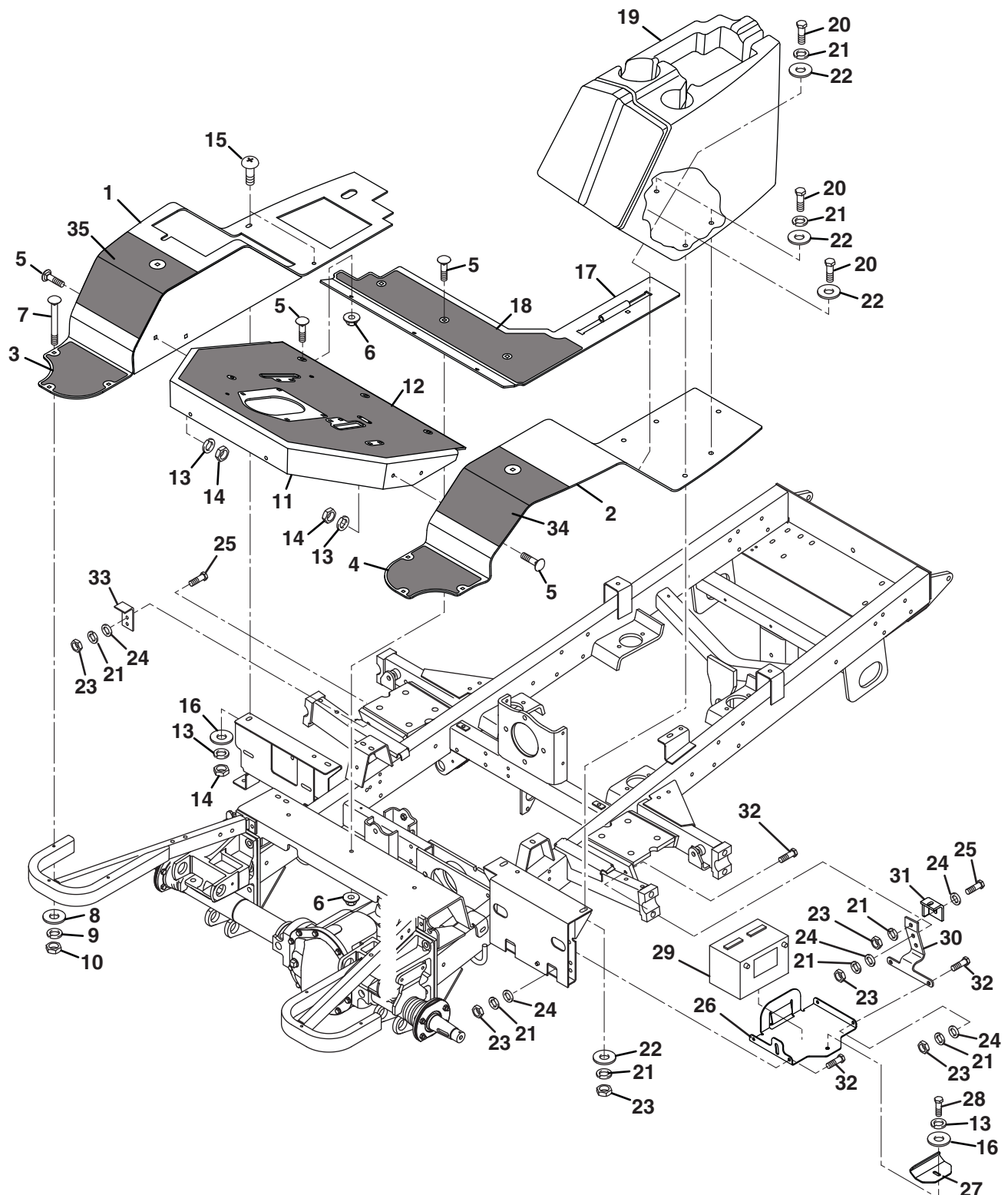
| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes |
|------|----------|------|---------------------------------|----------------------|
| 1    | 4182022  | 1    | Hood, R-311                     | See 3.1              |
| 2    | 4212423  | 2    | Latch, Overcenter               |                      |
| 3    | NS       | 2    | • Keeper                        |                      |
| 4    | 400408   | 2    | Screw, 1/2-13 x 1-1/2" Hex Head |                      |
| 5    | 450152   | 8    | Screw, M5-0.8 x 20 mm Hex Head  |                      |
| 6    | 403912   | 8    | Screw, #10-24 x 5/8" Truss Head |                      |
| 7    | 450322   | 8    | Nut, M5-0.8 Hex                 |                      |
| 8    | 444758   | 2    | Locknut, 1/2-13 Hex             |                      |
| 9    | 446116   | 8    | Lockwasher, #10                 |                      |
| 10   | 446118   | 8    | Lockwasher, #10                 |                      |
| 11   | 453017   | 2    | Flat Washer, 1/2                |                      |
| 12   | 444310   | 8    | Nut, #10-24 Hex                 |                      |
| 13   | 4197282  | 2    | Plate, Hood Mount               |                      |
| 14   | 4182025  | 1    | Front Cowling                   |                      |
| 15   | 4189009  | 1    | • Foam, Cowling                 |                      |
| 16   | 4188780  | 2    | Bracket, Ball Stud              |                      |
| 17   | 4197420  | 2    | Spring, Gas                     |                      |
| 18   | 4196223  | 1    | Hood Support                    |                      |
| 19   | 523126   | 2    | Bumper, Rubber                  |                      |
| 20   | 4195783  | 2    | Plate, Cowling                  |                      |
| 21   | 404022   | 4    | Screw, 1/4-20 x 3/4" Truss Head |                      |
| 22   | 522516   | 4    | Mount, Isolation                |                      |
| 23   | 452004   | 8    | Flat Washer, 1/4                |                      |
| 24   | 440052   | 8    | Carriage Bolt, 1/4-20 x 1-3/4"  |                      |
| 25   | 446130   | 8    | Lockwasher, 1/4 Heavy           |                      |
| 26   | 443102   | 8    | Nut, 1/4-20 Hex                 |                      |
| 27   | 400188   | 4    | Screw, 5/16-18 x 1" Hex Head    |                      |
| 28   | 452006   | 8    | Flat Washer, 5/16               |                      |
| 29   | 443106   | 4    | Nut, 5/16-18 Hex                |                      |
| 30   | 400286   | 4    | Screw, 3/8-16 x 2-3/4" Hex Head |                      |
| 31   | 445806   | 4    | Nut, 3/8-16 Hex Nylock          |                      |
| 32   | 455012   | 4    | Flat Washer, 1/2                |                      |
| 33   | 4182023  | 1    | Hood Support, Right Side        |                      |
| 34   | 4182024  | 1    | Hood Support, Left Side         |                      |
| 35   | 4212680  | 4    | Plug, 3/16 Hole                 |                      |
| 36   | 4212820  | 2    | Backer, Latch                   |                      |

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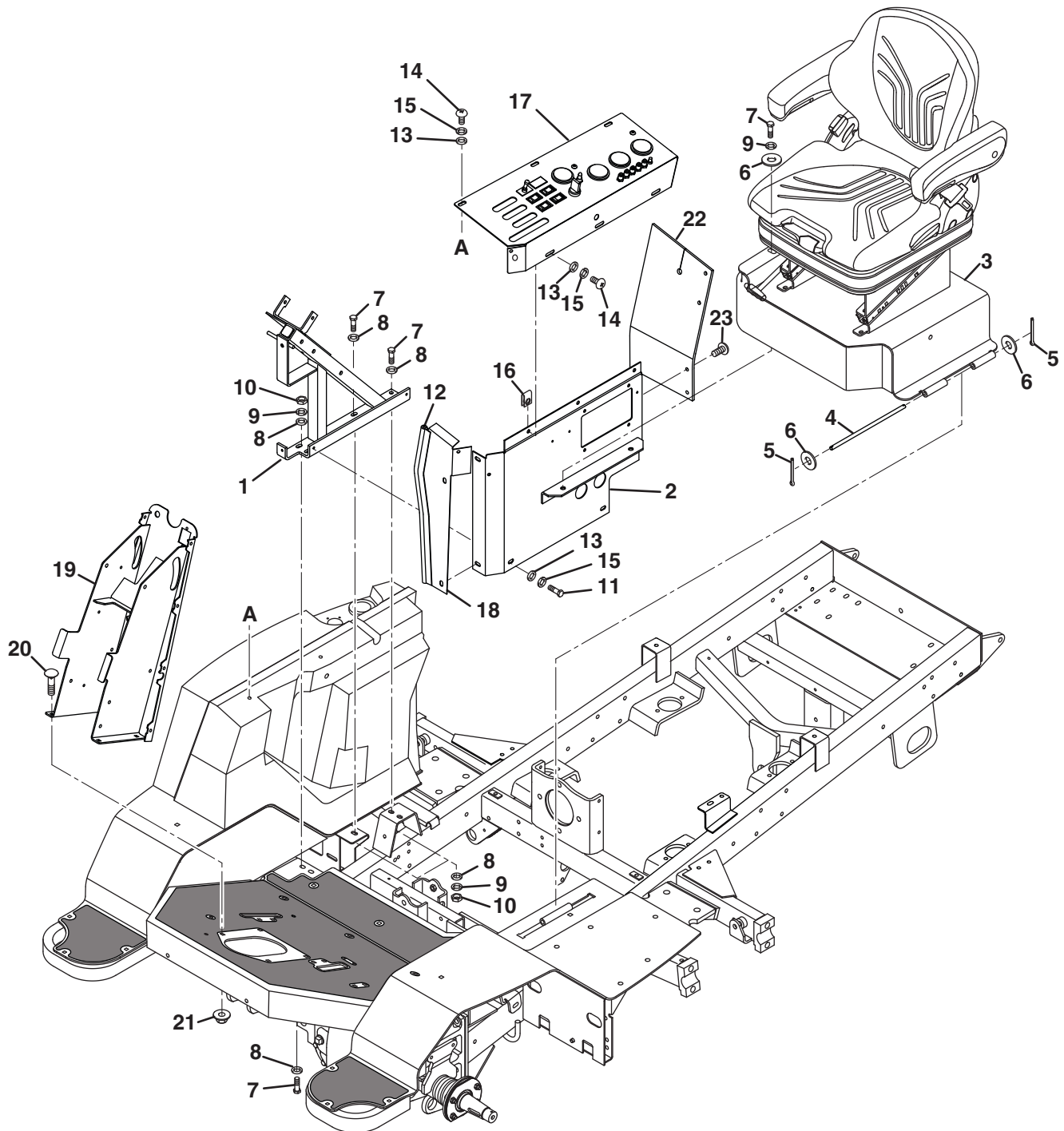
| Item | Part No. | Qty. | Description                  | Serial Numbers/Notes |
|------|----------|------|------------------------------|----------------------|
| 1    | 4182022  | 1    | Hood Assembly                |                      |
| 2    | 340795   | 2    | • Handle, Hood               |                      |
| 3    | 402230   | 4    | • Screw, 1/4-20 x 1" Slotted |                      |
| 4    | 453023   | 4    | • Flat Washer, 1/4           |                      |
| 5    | 446130   | 4    | • Lockwasher, 1/4 Heavy      |                      |
| 6    | 443102   | 4    | • Nut, 1/4-20 Hex            |                      |
| 7    | 4202200  | 1    | • Decal, Left Side Jacobsen  |                      |
| 8    | 4202201  | 1    | • Decal, Right Side Jacobsen |                      |
| 9    | 4187682  | 2    | • Decal, R-311               |                      |
| 10   | 4189000  | 1    | • Foam, Top Rear             |                      |
| 11   | 4189001  | 1    | • Foam, Top Front            |                      |
| 12   | 4189002  | 1    | • Foam, Lower Rear           |                      |
| 13   | 4189003  | 1    | • Foam, Right Side           |                      |
| 14   | 4189004  | 1    | • Foam, Left Side            |                      |
| 15   | 4189005  | 1    | • Foam, Top Right            |                      |
| 16   | 4189006  | 1    | • Foam, Top Left             |                      |
| 17   | 4189007  | 1    | • Foam, Right Under Side     |                      |
| 18   | 4189008  | 1    | • Foam, Left Under Side      |                      |
| 19   | 453009   | 2    | • Flat Washer, 5/16          |                      |
| 20   | 446134   | 2    | • Lockwasher, 5/16           |                      |
| 21   | 4201080  | 2    | • Threaded Ball Stud         |                      |
| 22   | 4201100  | 2    | • Seal                       |                      |

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| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes          |
|------|----------|------|---------------------------------|-------------------------------|
| 1    | 4185961  | 1    | Right Side Fender               | <b>REFERENCE B1, See 61.1</b> |
| 2    | 4185960  | 1    | Left Side Fender                |                               |
| 3    | 4185981  | 1    | Pad, Right Side Step            |                               |
| 4    | 4185980  | 1    | Pad, Left Side Step             |                               |
| 5    | 441614   | 11   | Carriage Bolt, 5/16-18 x 1"     |                               |
| 6    | 445781   | 7    | Nut, 5/16-18 Whizlock Flange    |                               |
| 7    | 441669   | 6    | Carriage Bolt, 1/4-20 x 2-3/4"  |                               |
| 8    | 452004   | 6    | Flat Washer, 1/4                |                               |
| 9    | 446128   | 6    | Lockwasher, 1/4                 |                               |
| 10   | 444708   | 6    | Locknut, 1/4-20                 |                               |
| 11   | 4184649  | 1    | Floor, Foot Rest                |                               |
| 12   | 4185983  | 1    | Pad, Footrest                   |                               |
| 13   | 446134   | 7    | Lockwasher, 5/16                |                               |
| 14   | 443106   | 6    | Nut, 5/16-18 Hex                |                               |
| 15   | 404072   | 2    | Screw, 5/16-18 x 1" Truss Head  |                               |
| 16   | 452006   | 3    | Flat Washer, 5/16               |                               |
| 17   | 4185923  | 1    | Floor Board                     |                               |
| 18   | 4185982  | 1    | Pad, Floor                      |                               |
| 19   | 4181420  | 1    | Utility Box                     |                               |
| 20   | 400266   | 6    | Screw, 3/8-16 x 1-1/2" Hex Head |                               |
| 21   | 446140   | 16   | Lockwasher, 3/8                 |                               |
| 22   | 452008   | 8    | Flat Washer, 3/8                |                               |
| 23   | 443110   | 11   | Nut, 3/8-16 Hex                 |                               |
| 24   | 453011   | 9    | Flat Washer, 3/8                |                               |
| 25   | 400264   | 3    | Screw, 3/8-16 x 1-1/4" Hex Head |                               |
| 26   | 4196122  | 1    | Tray, Battery                   |                               |
| 27   | 4196121  | 1    | Clamp, Battery Retaining        |                               |
| 28   | 400188   | 1    | Screw, 5/16-18 x 1" Hex Head    |                               |
| 29   | N/S      | 1    | Battery, 12 V Group # 75NF      |                               |
| 30   | 2242036  | 1    | Bracket, Battery Tray Support   |                               |
| 31   | 4188920  | 1    | Bracket, LH Rear Fender Support |                               |
| 32   | 400262   | 6    | Screw, 3/8-16 x 1" Hex Head     |                               |
| 33   | 2242037  | 1    | Bracket, RH Rear Fender Support |                               |
| 34   | 4207562  | 1    | Pad, Left Fender                |                               |
| 35   | 4207563  | 1    | Pad, Right Fender               |                               |

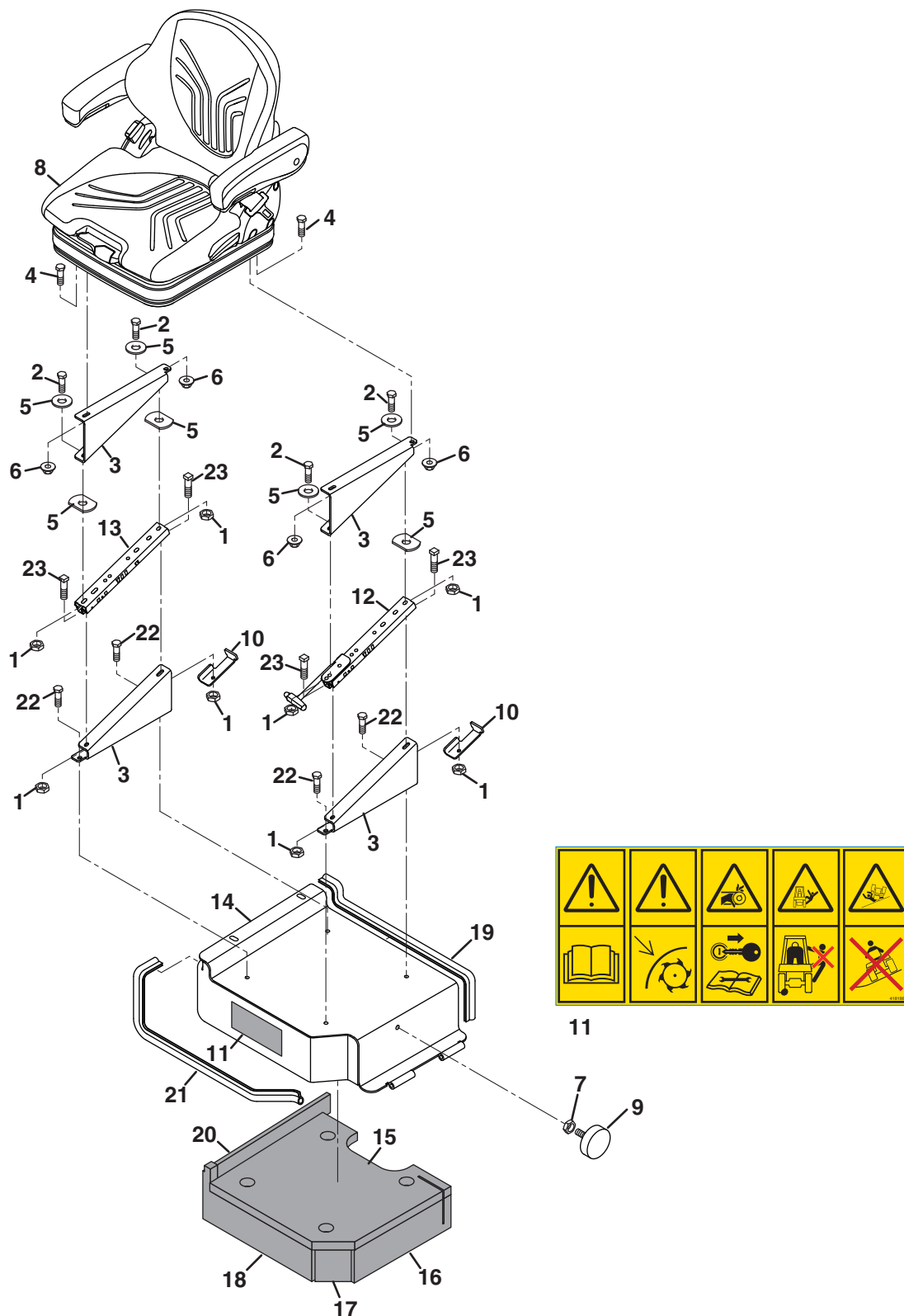
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| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes |
|------|----------|------|-----------------------------------|----------------------|
| 1    | 4168044  | 1    | Support, Console                  | See 6.1              |
| 2    | 4189011  | 1    | Console Wall                      |                      |
| 3    | REF      | 1    | Seat and Seat Base                |                      |
| 4    | 4185864  | 1    | Rod, Seat Pivot                   |                      |
| 5    | 460026   | 2    | Cotter Pin, 1/8 x 3/4"            |                      |
| 6    | 452007   | 4    | Flat Washer, 3/8                  |                      |
| 7    | 400264   | 7    | Screw, 3/8-16 x 1-1/4" Hex Head   |                      |
| 8    | 453011   | 10   | Flat Washer, 3/8                  |                      |
| 9    | 446142   | 7    | Lockwasher, 3/8 Heavy             |                      |
| 10   | 443110   | 5    | Nut, 3/8-16 Hex                   |                      |
| 11   | 400184   | 4    | Screw, 5/16-18 x 3/4" Hex Head    |                      |
| 12   | 4185903  | 1    | Trim Seal                         |                      |
| 13   | 455056   | 10   | Flat Washer, 5/16                 |                      |
| 14   | 403760   | 6    | Screw, 5/16-18 x 3/4" Truss Head  |                      |
| 15   | 446134   | 10   | Lockwasher, 5/16 Special          |                      |
| 16   | 445278   | 3    | Nut, Tinnerman                    |                      |
| 17   | REF      | 1    | Control Panel                     | See 7.1              |
| 18   | 4186141  | 1    | Bracket, Seal                     | See 16.1             |
| 19   | REF      | 1    | Steering Tower                    |                      |
| 20   | 441614   | 4    | Carriage Bolt, 5/16-18 x 1"       |                      |
| 21   | 445795   | 4    | Nut, 5/16-18 Spiralock Flange     |                      |
| 22   | 4195920  | 1    | Panel, Closeout                   |                      |
| 23   | 408851   | 4    | Screw, 1/4-20 x 3/4" Self Tapping |                      |

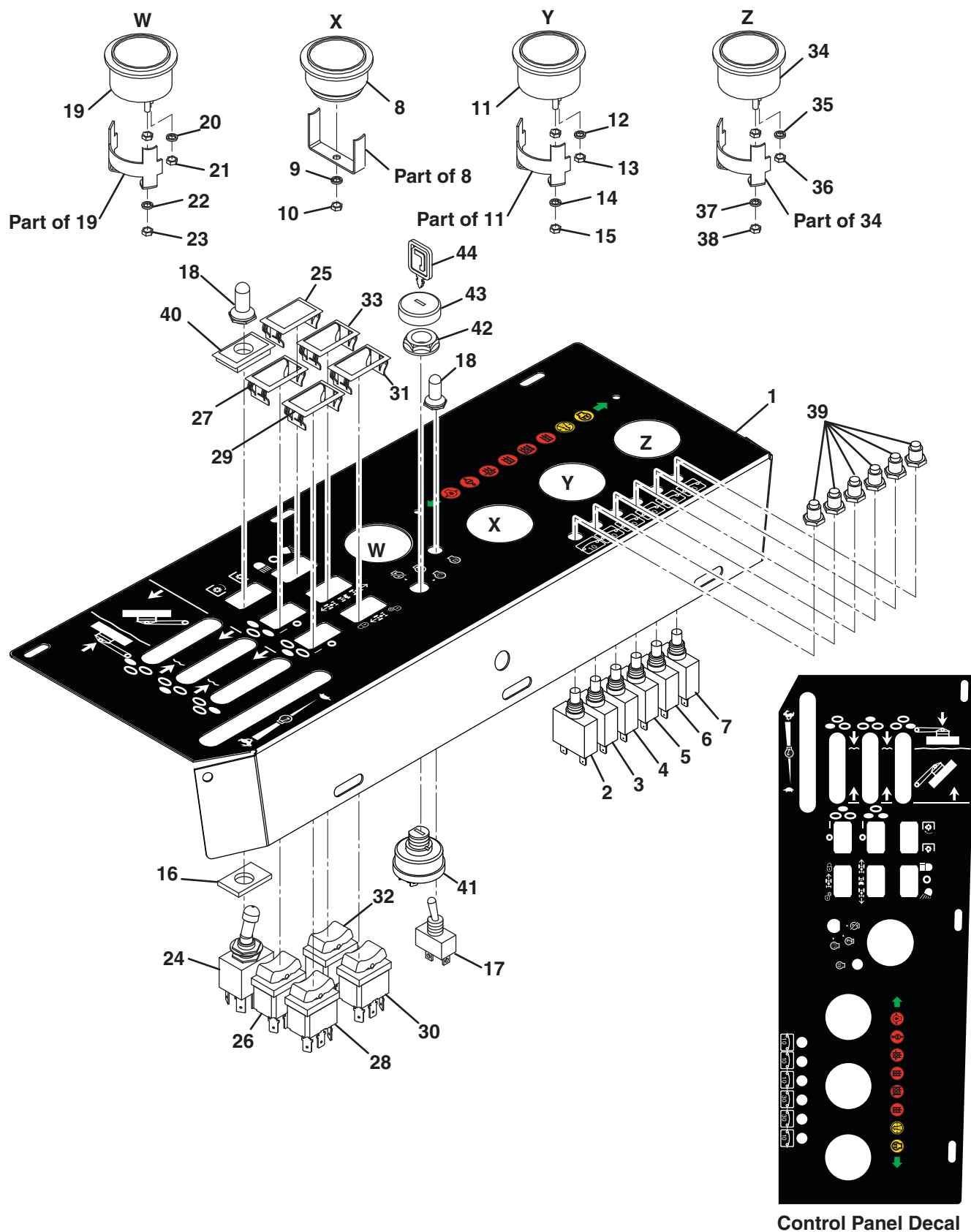
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## 6.1 Seat and Seat Base



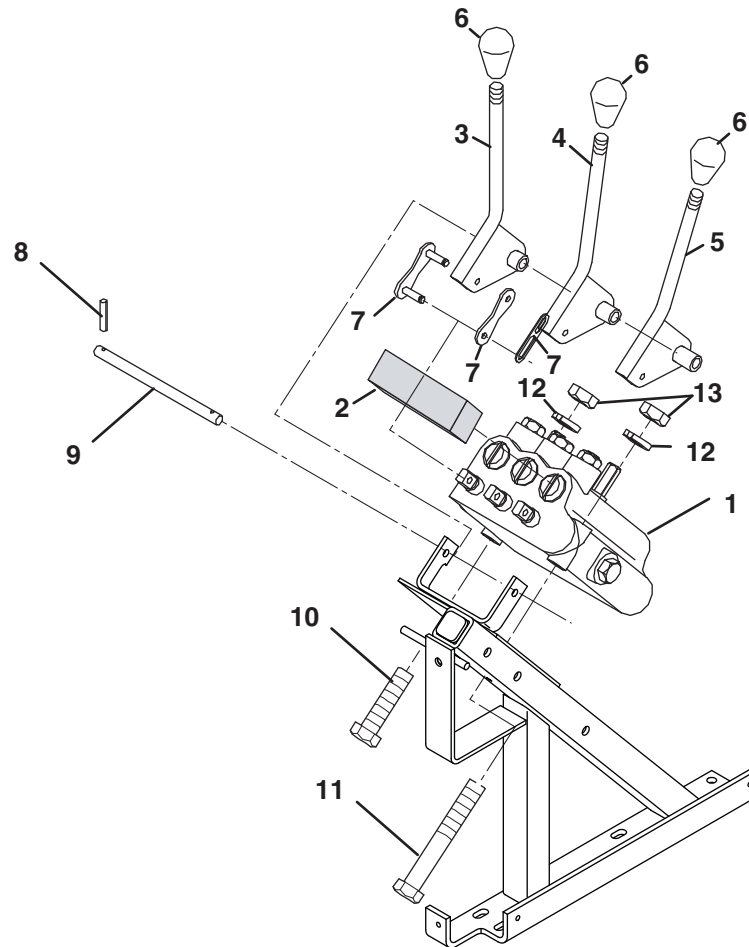
| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes                              |
|------|----------|------|----------------------------------|---------------------------------------------------|
| 1    | 450453   | 4    | Locknut, M8-1.25 Center          | <b>See 59.1</b><br><b>REFERENCE SW3, See 61.1</b> |
| 2    | 452388   | 4    | Screw, M8-1.25 x 20 mm Hex Head  |                                                   |
| 3    | 4185860  | 4    | Seat Riser                       |                                                   |
| 4    | 400186   | 4    | Screw, 5/16-18 x 7/8" Hex Head   |                                                   |
| 5    | 4198581  | 3    | Spacer                           |                                                   |
| 6    | 445795   | 4    | Nut, 5/16-18 Spiralock Flange    |                                                   |
| 7    | 443110   | 1    | Nut, 3/8-16 Hex                  |                                                   |
| 8    | 4185878  | 1    | Seat                             |                                                   |
|      | N/S      | 1    | • Switch, Seat                   |                                                   |
| 9    | 361723   | 1    | Stop, Rubber                     |                                                   |
| 10   | 4192160  | 2    | Stop, Rear Seat                  |                                                   |
| 11   | 4181865  | 1    | Decal, Warning                   |                                                   |
| 12   | 4193341  | 1    | Seat Rail                        |                                                   |
| 13   | 4193344  | 1    | Seat Rail with Handle            |                                                   |
| 14   | 4185927  | 1    | Seat Base                        |                                                   |
| 15   | 4185871  | 1    | Insulation, Seat Base            |                                                   |
| 16   | 4185872  | 1    | Insulation, Left Side            |                                                   |
| 17   | 4185873  | 1    | Insulation, Seat Base Corner     |                                                   |
| 18   | 4185874  | 1    | Insulation, Front Side           |                                                   |
| 19   | 4185875  | 1    | Trim Seal                        |                                                   |
| 20   | 4185870  | 1    | Insulation, Right Side           |                                                   |
| 21   | 4185868  | 1    | Trim Seal                        |                                                   |
| 22   | 403770   | 4    | Screw, 5/16/18 x 3/4" Hex Flange |                                                   |
| 23   | 4203220  | 4    | Screw, M8-1.25 x 20 mm Square Hd |                                                   |

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| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes     |
|------|----------|------|----------------------------------|--------------------------|
| 1    | 4193340  | 1    | Control Panel                    |                          |
|      | 4170760  | 1    | • Decal, Control Panel           |                          |
| 2    | 338601   | 1    | Circuit Breaker, 10 Amp          | REFERENCE CB1, See 61.1  |
| 3    | 338601   | 1    | Circuit Breaker, 10 Amp          | REFERENCE CB2, See 61.1  |
| 4    | 338601   | 1    | Circuit Breaker, 10 Amp          | REFERENCE CB3, See 61.1  |
| 5    | 338558   | 1    | Circuit Breaker, 30 Amp          | REFERENCE CB4, See 61.1  |
| 6    | 338558   | 1    | Circuit Breaker, 30 Amp          | REFERENCE CB5, See 61.1  |
| 7    | 338601   | 1    | Circuit Breaker, 10 Amp          | REFERENCE CB8, See 61.1  |
| 8    | 162723   | 1    | Hour Meter                       | REFERENCE U5, See 61.1   |
| 9    | 447006   | 2    | • Lockwasher, #10 External Tooth |                          |
| 10   | 444310   | 1    | • Nut, #10-24 Hex                |                          |
| 11   | 162721   | 1    | Volt Meter                       | REFERENCE U4, See 61.1   |
| 12   | 447002   | 3    | • Lockwasher, #6 External Tooth  |                          |
| 13   | 444304   | 3    | • Nut, #6-32 Hex                 |                          |
| 14   | 447206   | 2    | • Lockwasher, #8 Internal Tooth  |                          |
| 15   | 444306   | 2    | • Nut, #8-32 Hex                 |                          |
| 16   | 1000588  | 1    | Plug, Upper Panel                |                          |
| 17   | 365043   | 1    | Switch, Glow Plug                | REFERENCE SW5, See 61.1  |
| 18   | 363962   | 2    | Switch Boot                      |                          |
| 19   | 3005121  | 1    | Water Temperature Gauge          | REFERENCE U6, See 61.1   |
| 20   | 447002   | 3    | • Lockwasher, #6 External Tooth  |                          |
| 21   | 444304   | 3    | • Nut, #6-32 Hex                 |                          |
| 22   | 447206   | 2    | • Lockwasher, #8 Internal Tooth  |                          |
| 23   | 444306   | 2    | • Nut, #8-32 Hex                 |                          |
| 24   | 3001372  | 1    | Switch, PTO                      | REFERENCE SW4, See 61.1  |
| 25   | 366932   | 1    | Plug, Panel                      |                          |
| 26   | 3001374  | 1    | Switch, Wing Decks               | REFERENCE SW6, See 61.1  |
| 27   | 5003490  | 1    | • Mounting Bezel                 |                          |
| 28   | 3001373  | 1    | Switch, Front Deck               | REFERENCE SW7, See 61.1  |
| 29   | 5003490  | 1    | • Mounting Bezel                 |                          |
| 30   | 3001371  | 1    | Switch, Cruise Control           | REFERENCE SW22, See 61.1 |
| 31   | 5003490  | 1    | • Mounting Bezel                 |                          |
| 32   | 3001370  | 1    | Switch, 4WD                      | REFERENCE SW19, See 61.1 |
| 33   | 5003490  | 1    | • Mounting Bezel                 |                          |
| 34   | 365943   | 1    | Gauge, Fuel                      | REFERENCE U7, See 61.1   |
| 35   | 447002   | 3    | • Lockwasher, #6 External Tooth  |                          |
| 36   | 444304   | 3    | • Nut, #6-32 Hex                 |                          |
| 37   | 447206   | 2    | • Lockwasher, #8 Internal Tooth  |                          |
| 38   | 444306   | 2    | • Nut, #8-32 Hex                 |                          |
| 39   | 364774   | 6    | Boot, Protective                 |                          |
| 40   | 3001386  | 1    | Plug, Lower Panel                |                          |
| 41   | 5002503  | 1    | Ignition Switch                  | REFERENCE SW1, See 61.1  |
| 42   | 5002102  | 1    | • Nut, Black Nylon Face          |                          |
| 43   | 5002101  | 1    | • Bezel Slotted Rubber           |                          |
| 44   | 5000039  | 1    | • Ignition Key                   |                          |

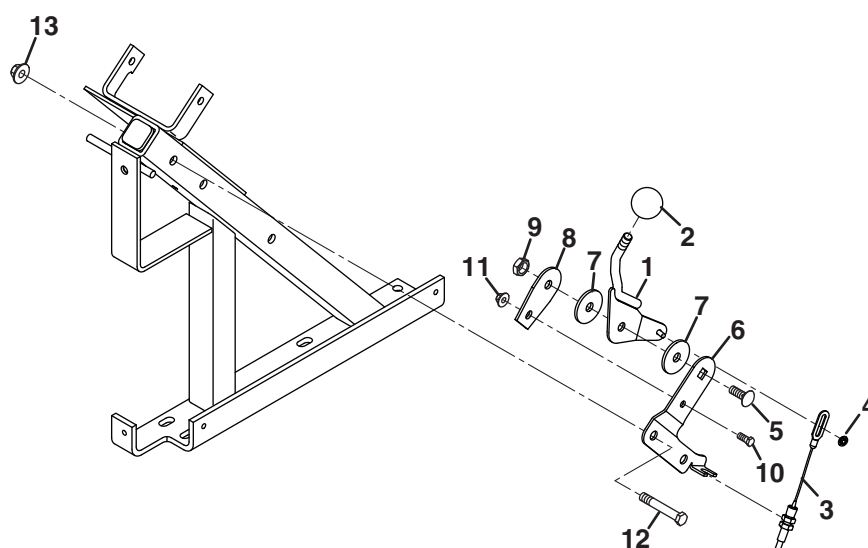
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| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes |
|------|----------|------|---------------------------------|----------------------|
| 1    | 1001802  | 1    | Lift Valve                      | See 53.1             |
| 2    | 366150   | 1    | Weather Strip                   |                      |
| 3    | 132473   | 1    | Right Wing Lift Lever           |                      |
| 4    | 132472   | 1    | Center Lift Lever               |                      |
| 5    | 132471   | 1    | Left Wing Lift Lever            |                      |
| 6    | 366522   | 3    | Knob, Lift Lever                |                      |
| 7    | 366133   | 3    | Chain Link                      |                      |
| 8    | 461356   | 2    | Roll Pin, 3/32 x 1/2"           |                      |
| 9    | 361833   | 1    | Pin, Lift Lever                 |                      |
| 10   | 400124   | 1    | Screw, 1/4-20 x 2-1/2" Hex Head |                      |
| 11   | 400128   | 1    | Screw, 1/4-20 x 3-1/2" Hex Head |                      |
| 12   | 446130   | 2    | Lockwasher, 1/4 Heavy           |                      |
| 13   | 443102   | 2    | Nut, 1/4-20 Hex                 |                      |

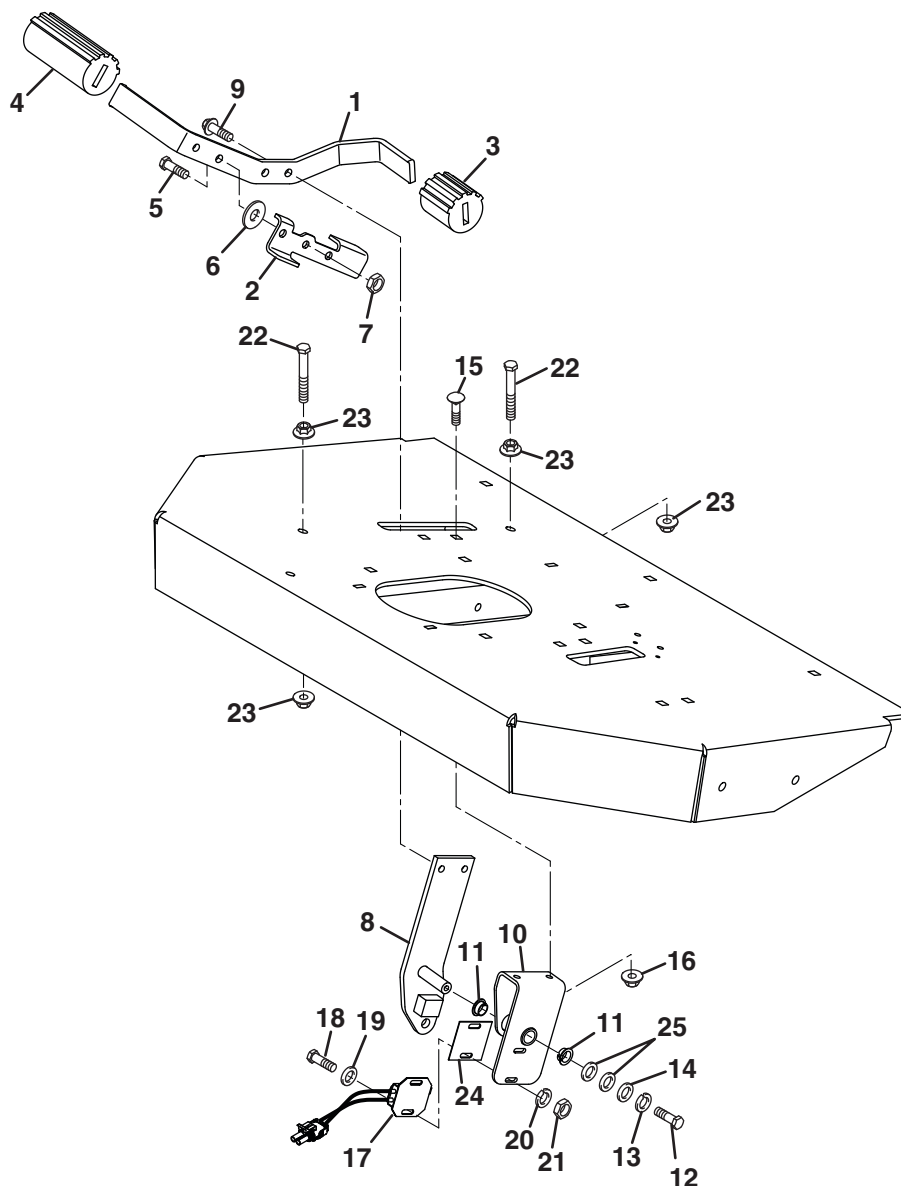
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## 9.1 Throttle



| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes                  |
|------|----------|------|----------------------------------|---------------------------------------|
| 1    | 4172944  | 1    | Throttle Handle                  | <b>See 21.1</b> for Engine Connection |
| 2    | 326731   | 1    | Knob, Throttle                   |                                       |
| 3    | 4177920  | 1    | Cable, Throttle                  |                                       |
| 4    | 445800   | 1    | Palnut, 3/16                     |                                       |
| 5    | 440116   | 1    | Carriage Bolt, 3/8-16 x 7/8"     |                                       |
| 6    | 4178004  | 1    | Bracket, Throttle Lever Mounting |                                       |
| 7    | 360885   | 2    | Disc, Friction                   |                                       |
| 8    | 3009153  | 1    | Plate, Friction                  |                                       |
| 9    | 444850   | 1    | Locknut, 3/8-16 Hex Jam          |                                       |
| 10   | 400110   | 1    | Screw, 1/4-20 x 7/8" Hex Head    |                                       |
| 11   | 444708   | 1    | Locknut, 1/4-20 Hex Center       |                                       |
| 12   | 400272   | 2    | Screw, 3/8-16 x 2-1/4 Hex Head   |                                       |
| 13   | 445783   | 2    | Nut, 3/8-16 Whizlock Flange      |                                       |

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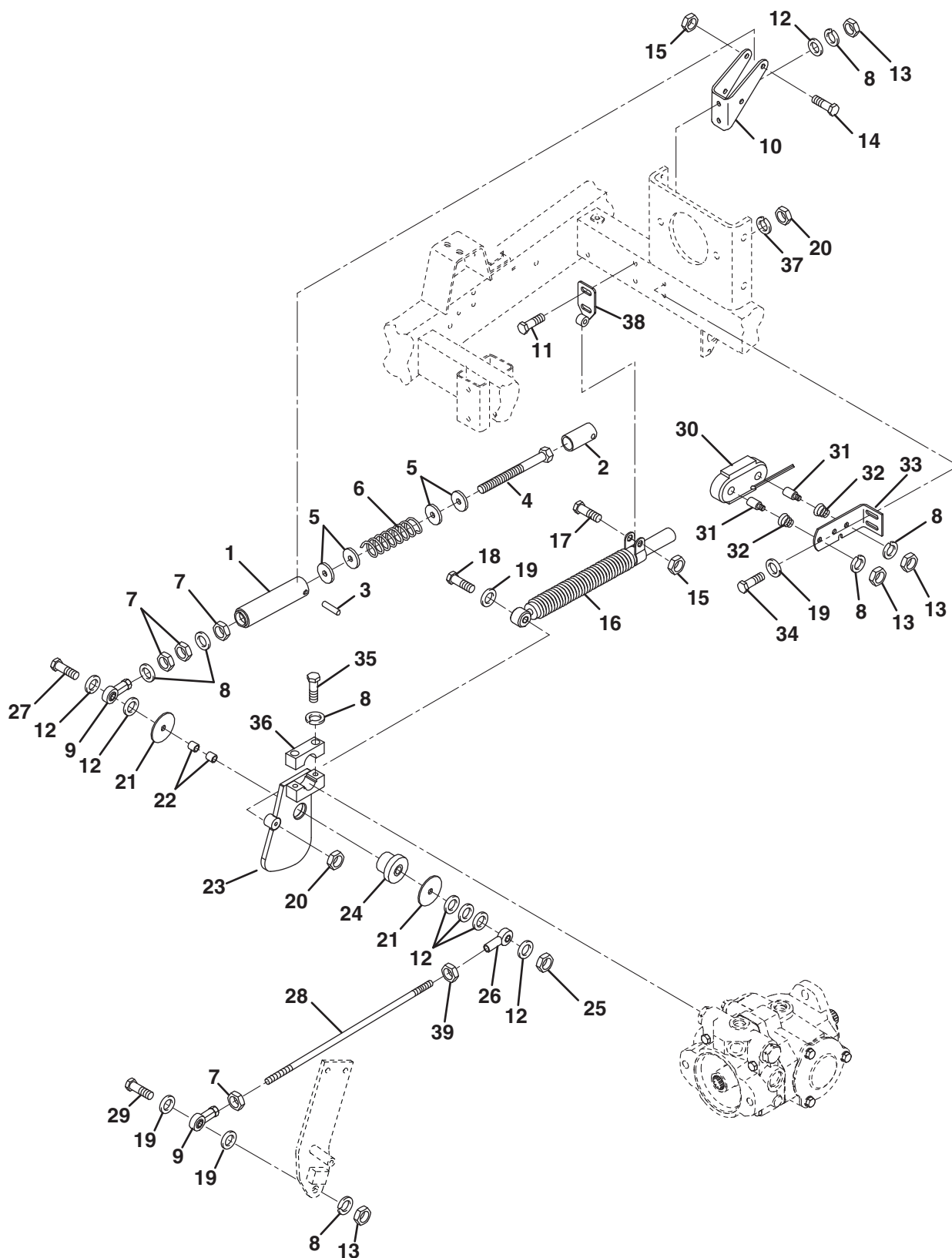


| Item | Part No.  | Qty. | Description                          | Serial Numbers/Notes            |
|------|-----------|------|--------------------------------------|---------------------------------|
| 1    | 4116048   | 1    | Pedal, Hydro                         | <b>REFERENCE SW23, See 61.1</b> |
| 2    | 3007230   | 1    | Stop, Mow Speed                      |                                 |
| 3    | 3003474   | 1    | Grip, Reverse Pedal                  |                                 |
| 4    | 3003475   | 1    | Grip, Forward Pedal                  |                                 |
| 5    | 400188    | 1    | Screw, 5/16-18 x 1" Hex Head         |                                 |
| 6    | 3002695   | 1    | Flat Washer, 5/16                    |                                 |
| 7    | 444718    | 1    | Locknut, 5/16-18 Center              |                                 |
| 8    | 4183720   | 1    | Arm, Pedal                           |                                 |
| 9    | 409812    | 2    | Screw, 5/16-18 x 3/4" Thread Cutting |                                 |
| 10   | 4183480   | 1    | Bracket, Pedal Support               |                                 |
| 11   | 366877    | 2    | Bearing, Nylon                       |                                 |
| 12   | 400146    | 1    | Screw, 1/4-28 x 3/4" Hex Head        |                                 |
| 13   | 446130    | 1    | Lockwasher, 1/4 Heavy                |                                 |
| 14   | 453023    | 1    | Flat Washer, 1/4                     |                                 |
| 15   | 441602    | 2    | Carriage Bolt, 5/16-18 x 3/4"        |                                 |
| 16   | 445781    | 2    | Nut, 5/16-18 Whizlock Flange         |                                 |
| 17   | 1000649   | 1    | Switch, Reverse Sensing              |                                 |
| 18   | 403746    | 2    | Screw, #10-24 x 3/4" Hex Head        |                                 |
| 19   | 64251-001 | 2    | Flat Washer, #10                     |                                 |
| 20   | 446116    | 2    | Lockwasher, #10                      |                                 |
| 21   | 444310    | 2    | Nut, #10-24 Hex                      |                                 |
| 22   | 200276    | 2    | Screw, 3/8-16 x 3" Hex Head          |                                 |
| 23   | 445796    | 4    | Nut, 3/8-16 Spiralock Flange         |                                 |
| 24   | 4185902   | AR   | Shim, Switch                         |                                 |
| 25   | 455066    | AR   | Washers, 1/4"                        |                                 |

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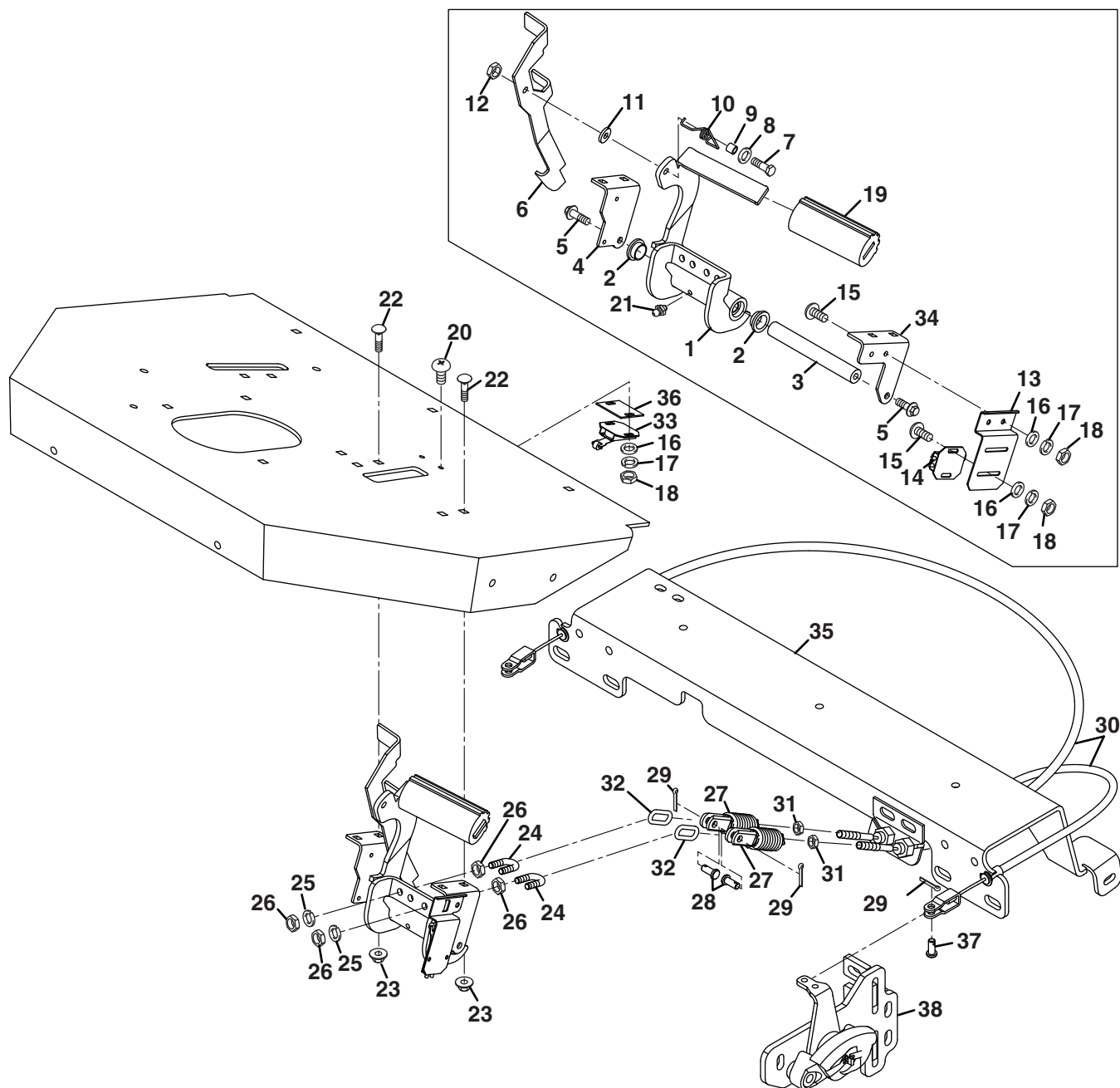
## 11.1 Traction Linkage

Serial No. All



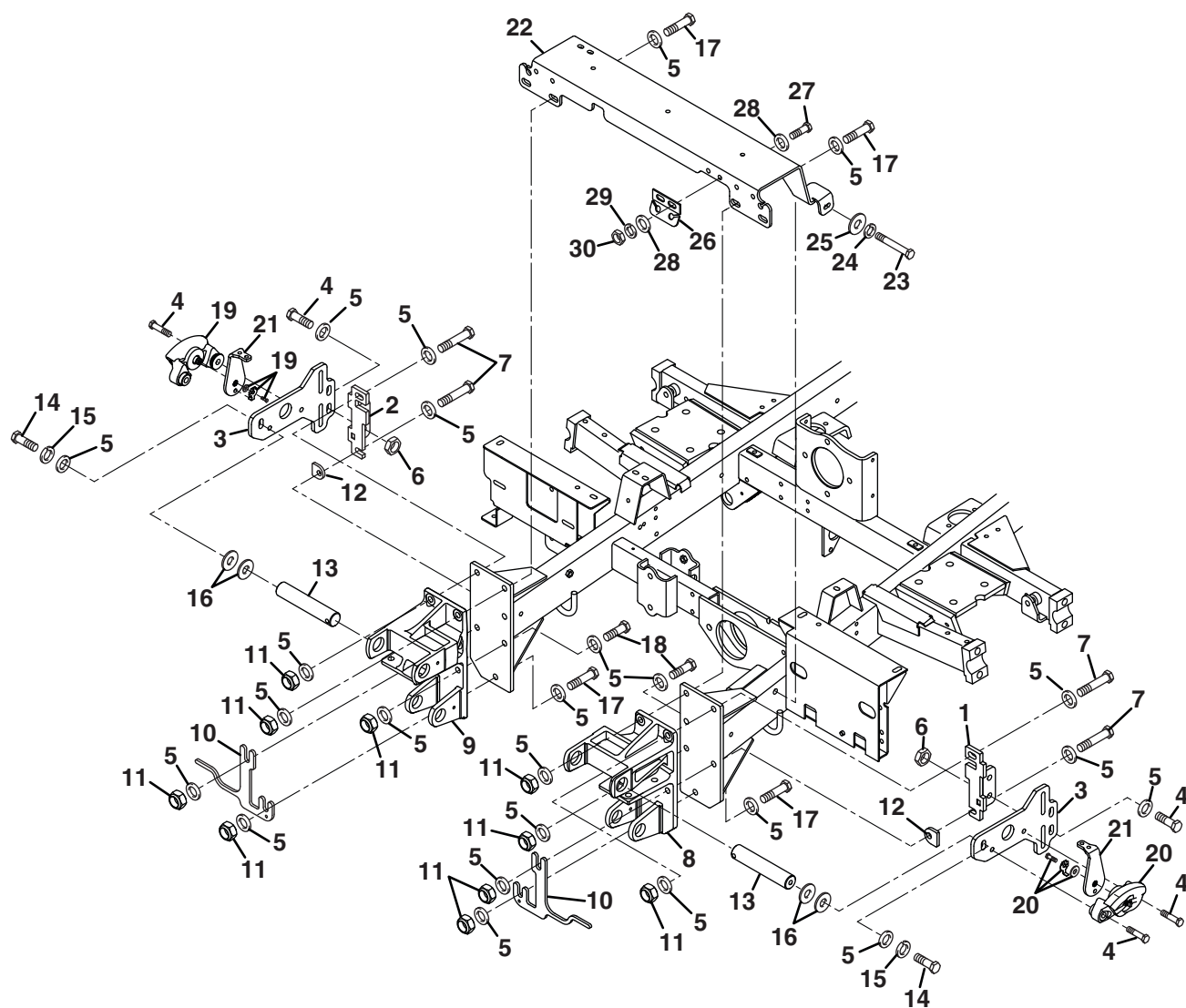
| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes           |
|------|----------|------|----------------------------------|--------------------------------|
| 1    | 2500257  | 1    | Tube, Traction Return            | <b>REFERENCE K16, See 61.1</b> |
| 2    | 3007095  | 1    | Stop, Rear Pivot                 |                                |
| 3    | 3000593  | 1    | Spacer, Traction Control         |                                |
| 4    | 358795   | 1    | Screw, 3/8-24 x 5-1/2" Special   |                                |
| 5    | 358794   | 4    | Washer                           |                                |
| 6    | 364970   | 1    | Spring, Compression              |                                |
| 7    | 443812   | 4    | Nut, 3/8-24 Hex Jam              |                                |
| 8    | 446142   | 9    | Lockwasher, 3/8 Heavy            |                                |
| 9    | 360893   | 2    | Rod End                          |                                |
| 10   | 3000594  | 1    | Bracket, Traction Return         |                                |
| 11   | 400276   | 2    | Screw, 3/8-16 x 3" Hex Head      |                                |
| 12   | 453011   | 10   | Flat Washer, 3/8                 |                                |
| 13   | 445806   | 5    | Nut, 3/8-16 Hex Nylock           |                                |
| 14   | 400200   | 1    | Screw, 5/16-18 x 2-1/4" Hex Head |                                |
| 15   | 444718   | 2    | Locknut, 5/16-18 Center          |                                |
| 16   | 2500175  | 1    | Traction Damper                  |                                |
| 17   | 400190   | 1    | Screw, 5/16-18 x 1-1/4" Hex Head |                                |
| 18   | 400194   | 1    | Screw, 5/16-18 x 1-3/4" Hex Head |                                |
| 19   | 452006   | 5    | Flat Washer, 5/16                |                                |
| 20   | 443106   | 3    | Nut, 5/16-18 Hex                 |                                |
| 21   | 362819   | 2    | Washer                           |                                |
| 22   | 304718   | 2    | Bushing                          |                                |
| 23   | 4158183  | 1    | Traction Arm                     |                                |
| 24   | 359949   | 1    | Rubber Mount, Traction Arm       |                                |
| 25   | 444762   | 1    | Locknut, 3/8-16 Center           |                                |
| 26   | 366317   | 1    | Rod End                          |                                |
| 27   | 401028   | 1    | Screw, 3/8-16 x 3-1/4" Hex Head  |                                |
| 28   | 4183001  | 1    | Rod, Traction Pump Adjusting     |                                |
| 29   | 400266   | 1    | Screw, 3/8-16 x 1-1/2" Hex Head  |                                |
| 30   | 340783   | 1    | Magnet, Cruise Control           |                                |
| 31   | 367456   | 2    | Pin, Magnet Support              |                                |
| 32   | 363771   | 2    | Spring                           |                                |
| 33   | 367457   | 1    | Bracket, Cruise Control Magnet   |                                |
| 34   | 400202   | 2    | Screw, 5/16-18 x 3" Hex Head     |                                |
| 35   | 400268   | 2    | Screw, 3/8-16 x 1-3/4" Hex Head  |                                |
| 36   | 2243002  | 2    | Block, top                       |                                |
| 37   | 446136   | 2    | Lockwasher, 5/16 Heavy           |                                |
| 38   | 4158187  | 1    | Damper Mount                     |                                |
| 39   | 445785   | 1    | Nut, 3/8-24 LH Hex               |                                |

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| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes                                                                                |
|------|----------|------|----------------------------------|-----------------------------------------------------------------------------------------------------|
| 1    | 4183261  | 1    | Brake Pedal                      | <p><b>REFERENCE SW21, See 61.1</b></p> <p><b>REFERENCE SW2, See 61.1</b></p> <p><b>See 13.1</b></p> |
| 2    | 352726   | 2    | • Bushing                        |                                                                                                     |
| 3    | 3006327  | 1    | Shaft, Brake Pedal               |                                                                                                     |
| 4    | 4100460  | 1    | Arm, Brake                       |                                                                                                     |
| 5    | 403770   | 2    | Screw, 5/16-18 x 3/4" Hex Flange |                                                                                                     |
| 6    | 4183260  | 1    | Lever, Parking Brake             |                                                                                                     |
| 7    | 400190   | 1    | Screw, 5/16-18 x 1-1/4 Hex Head  |                                                                                                     |
| 8    | 453009   | 1    | Flat Washer, 5/16                |                                                                                                     |
| 9    | 3007941  | 1    | Spacer                           |                                                                                                     |
| 10   | 3007942  | 1    | Spring, Torsion                  |                                                                                                     |
| 11   | 3002695  | 1    | Flat Washer, 5/16                |                                                                                                     |
| 12   | 444718   | 1    | Locknut, 5/16-18 Center          |                                                                                                     |
| 13   | 4185901  | 1    | Bracket, Cruise Control Switch   |                                                                                                     |
| 14   | 1000649  | 1    | Switch, Cruise Control Cut-out   |                                                                                                     |
| 15   | 403860   | 3    | Screw, #8-32 x 5/8" Truss Head   |                                                                                                     |
| 16   | 453004   | 5    | Flat Washer, #8                  |                                                                                                     |
| 17   | 446110   | 5    | Lockwasher, #8                   |                                                                                                     |
| 18   | 444306   | 5    | Nut, #8-32 Hex                   |                                                                                                     |
| 19   | 3003475  | 1    | Grip, Pedal                      |                                                                                                     |
| 20   | 403862   | 2    | Screw, #8-32 x 3/4" Truss Head   |                                                                                                     |
| 21   | 471217   | 1    | Fitting, 5/16 Straight           |                                                                                                     |
| 22   | 441602   | 4    | Carriage Bolt, 5/16-18 x 3/4"    |                                                                                                     |
| 23   | 445781   | 4    | Nut, 5/16-18 Hex Flange          |                                                                                                     |
| 24   | 362744   | 2    | U-Bolt                           |                                                                                                     |
| 25   | 446134   | 4    | Lockwasher, 5/16                 |                                                                                                     |
| 26   | 443806   | 8    | Nut, 5/16-18 Hex Jam             |                                                                                                     |
| 27   | 4108161  | 2    | Spring, Brake                    |                                                                                                     |
| 28   | 461451   | 2    | Clevis Pin, 5/16 x 15/16"        |                                                                                                     |
| 29   | 460014   | 4    | Cotter Pin, 3/32 x 3/4"          |                                                                                                     |
| 30   | 4213263  | 2    | Cable, Brake                     |                                                                                                     |
| 31   | 443812   | 2    | Nut, 3/8-24 Hex Jam              |                                                                                                     |
| 32   | 4213262  | 2    | Link, Chain                      |                                                                                                     |
| 33   | 1000649  | 1    | Switch, Parking Brake            |                                                                                                     |
| 34   | 4197881  | 1    | Arm, Brake                       |                                                                                                     |
| 35   | 4213482  | 1    | Floor Support                    |                                                                                                     |
| 36   | 4185902  | 1    | Shim, Switch                     |                                                                                                     |
| 37   | 461493   | 2    | Clevis Pin, 5/16 x 3/4"          |                                                                                                     |
| 38   | REF      | 1    | Brake Caliper Assembly           |                                                                                                     |

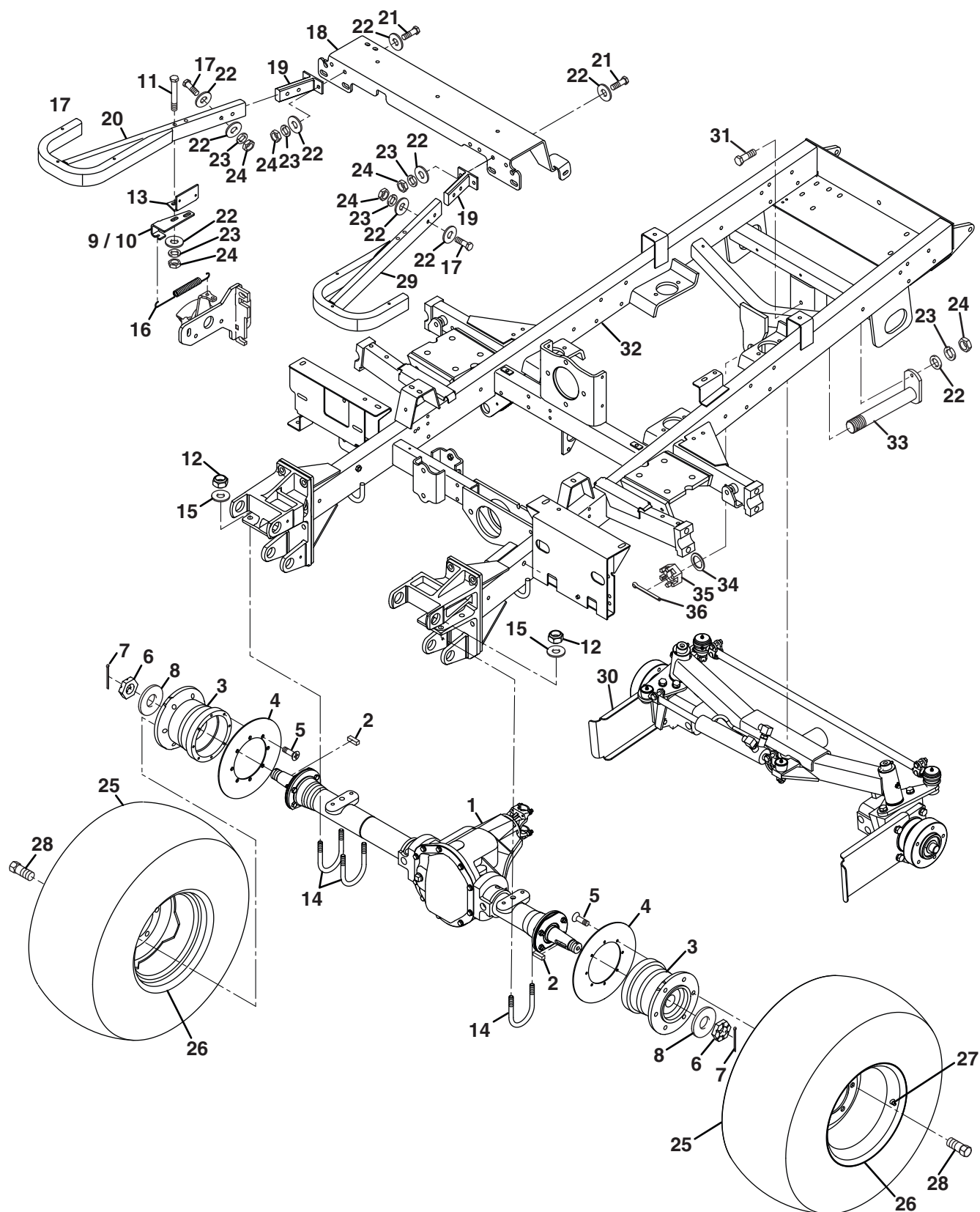
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| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes                               |
|------|----------|------|---------------------------------|----------------------------------------------------|
| 1    | 4212841  | 1    | Mount, Left Side Brake          | Grade 8                                            |
| 2    | 4212745  | 1    | Mount, Right Side Brake         |                                                    |
| 3    | 4212744  | 2    | Plate, Caliper Mounting         |                                                    |
| 4    | 400411   | 8    | Screw, 1/2-13 x 1-3/4" Hex Head |                                                    |
| 5    | 4212780  | 30   | Hardened Washer, 1/2"           |                                                    |
| 6    | 4204160  | 4    | Locknut, 1/2-13 Hex             |                                                    |
| 7    | 400428   | 4    | Screw, 1/2-13 x 2-3/4" Hex Head |                                                    |
| 8    | 4172601  | 1    | Left Side Axle Support          |                                                    |
| 9    | 4172600  | 1    | Right Side Axle Support         |                                                    |
| 10   | 4213280  | 2    | Rim Scraper                     |                                                    |
| 11   | 64229-05 | 12   | Nut, 1/2-13 Nylock Hex          | See 44.1                                           |
| 12   | 4212742  | 2    | Plate, Spacer                   |                                                    |
| 13   | 4184641  | 2    | Shaft, Lift Arm Pivot           |                                                    |
| 14   | 400408   | 2    | Screw, 1/2-13 x 1-1/2" Hex Head |                                                    |
| 15   | 446154   | 2    | Lockwasher, 1/2 Heavy           |                                                    |
| 16   | 452012   | 4    | Flat Washer, 1/2                |                                                    |
| 17   | 400412   | 4    | Screw, 1/2-13 x 2" Hex Head     |                                                    |
| 18   | 400410   | 4    | Screw, 1/2-13 x 1-3/4" Hex Head |                                                    |
| 19   | 4213440  | 1    | Caliper, Right Side             |                                                    |
| 20   | 4213441  | 1    | Caliper, Left Side              |                                                    |
|      |          | 1    | • Replacement Brake Pad Set     | Includes Lever Hardware<br>Includes Lever Hardware |
| 21   | 4213301  | 2    | Lever, Brake                    |                                                    |
| 22   | 4213480  | 1    | Bracket, Floor Support          |                                                    |
| 23   | 401028   | 2    | Screw, 3/8-16 x 3-1/2" Hex Head |                                                    |
| 24   | 446140   | 2    | Lockwasher, 3/8                 |                                                    |
| 25   | 452008   | 2    | Flat Washer, 3/8                |                                                    |
| 26   | 4213261  | 1    | Bracket, Brake Cable            |                                                    |
| 27   | 400264   | 2    | Screw, 3/8-16 x 1-1/4" Hex Head |                                                    |
| 28   | 453011   | 4    | Flat Washer, 3/8                |                                                    |
| 29   | 446142   | 2    | Lockwasher, 3/8 Heavy           |                                                    |
| 30   | 443110   | 2    | Nut, 3/8-16 Hex                 |                                                    |

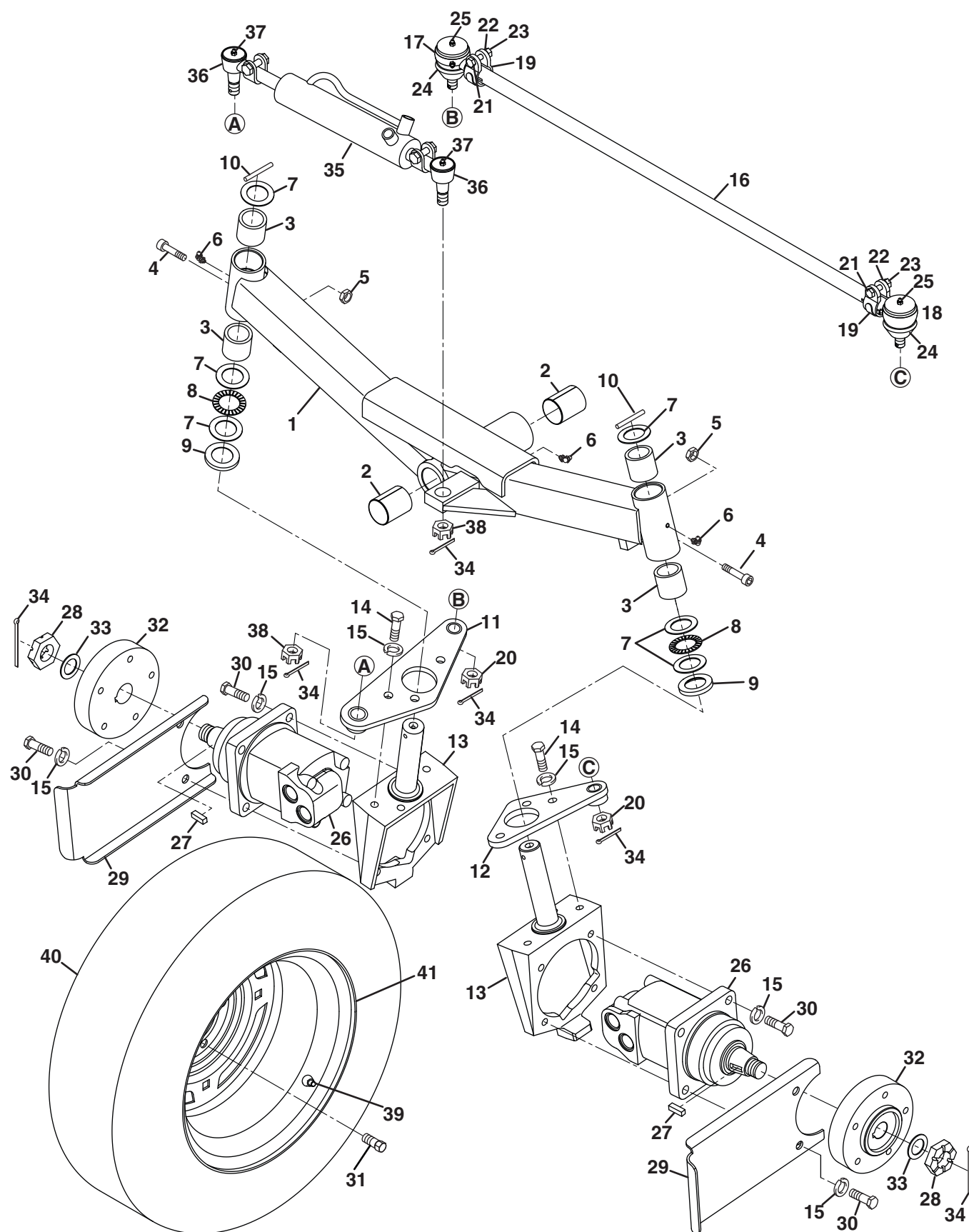
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## 14.1 Frame and Front Axle



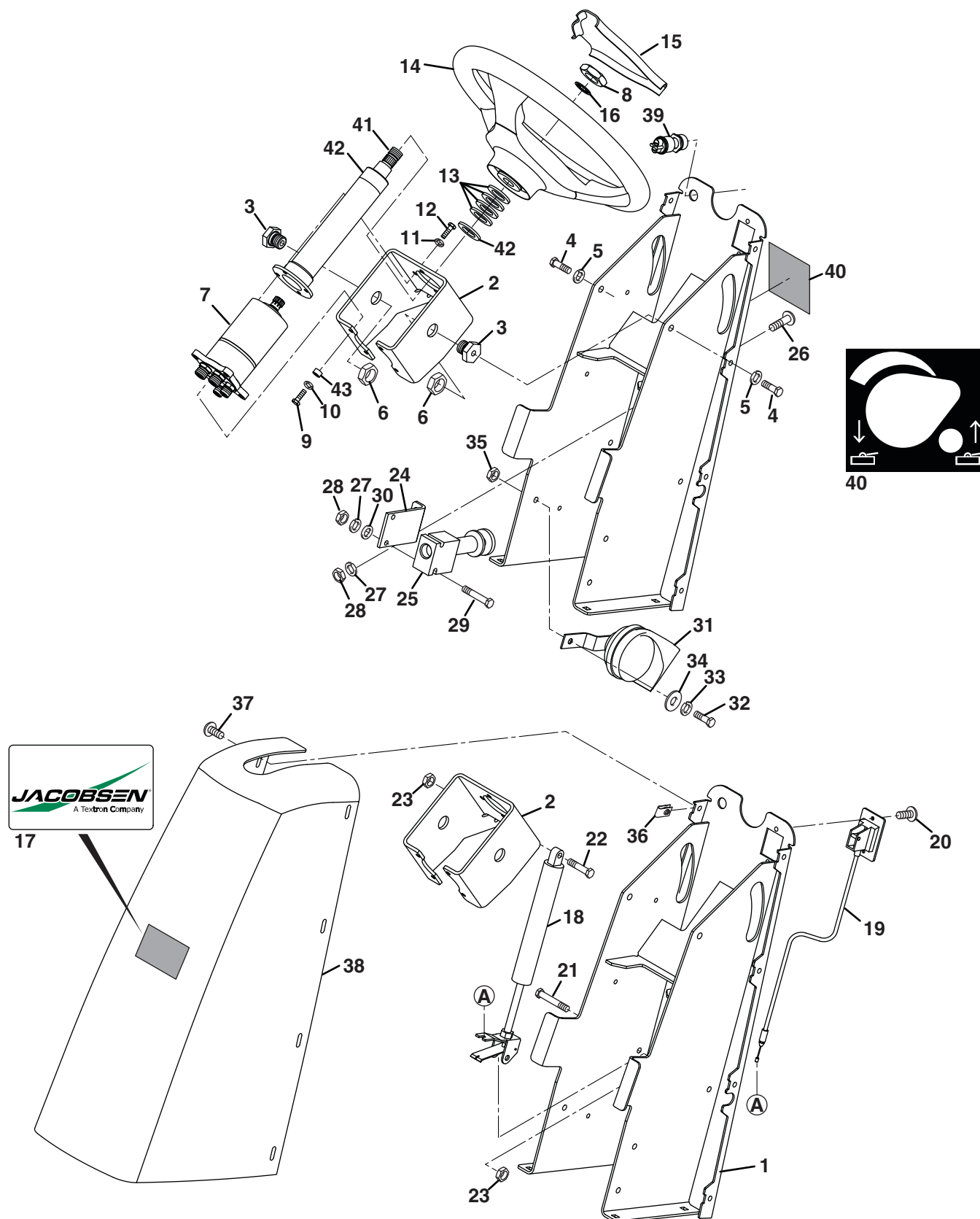
| Item | Part No. | Qty. | Description                          | Serial Numbers/Notes |
|------|----------|------|--------------------------------------|----------------------|
| 1    | 4163987  | 1    | Front Axle                           | Not Shown            |
| 2    | 4207700  | 2    | Key                                  |                      |
| 3    | 4213320  | 2    | Hub, Wheel                           |                      |
| 4    | 4212741  | 2    | Disc, Brake                          |                      |
| 5    | 800503   | 16   | Screw, 1/4-20 x 5/8" Flat Head       |                      |
| 6    | 557624   | 2    | Nut                                  |                      |
| 7    | 460093   | 2    | Cotter Pin, 1/8 x 2-1/2"             |                      |
| 8    | 453030   | 2    | Flat Washer, 1-1/8"                  |                      |
| 9    | 4213264  | 1    | Bracket, Right Side Return Spring    |                      |
| 10   | 4213300  | 1    | Bracket, Left Side Return Spring     |                      |
| 11   | 401028   | 4    | Screw, 3/8-16 x 3-1/4" Hex Had       | See 44.1             |
| 12   | 4204160  | 6    | Nut, 1/2-13 Nylock Hex               |                      |
| 13   | 4198920  | 1    | Bracket, Front Lift Arm Limit Switch |                      |
| 14   | 4204140  | 3    | U-Bolt                               |                      |
| 15   | 4212780  | 6    | Hardened Washer, 1/2                 |                      |
| 16   | 319212   | 2    | Spring, Extension                    |                      |
| 17   | 400268   | 4    | Screw, 3/8-16 x 1-3/4" Hex Head      |                      |
| 18   | 4213480  | 1    | Bracket, Floor Support               |                      |
| 19   | 4190242  | 2    | Mount, Step Support                  |                      |
| 20   | 4201700  | 1    | Step Support, Right Side             | See 13.1             |
| 21   | 400264   | 4    | Screw, 3/8-16 x 1-1/4" Hex Head      |                      |
| 22   | 452008   | 21   | Flat Washer, 3/8                     |                      |
| 23   | 446142   | 13   | Lockwasher, 3/8 Heavy                |                      |
| 24   | 443110   | 13   | Nut, 3/8-16 Hex                      |                      |
| 25   | 366292   | 2    | Tire, 26 x 12 - 12, 6 Ply Multi-Trac |                      |
| 26   | 5002574  | 2    | Wheel Rim, 12 x 10.5                 |                      |
| 27   | 360111   | 2    | Inflation Valve                      |                      |
| 28   | 353914   | 12   | Wheel Bolt, 1/2-20 x 3/4"            |                      |
| 29   | 4201701  | 1    | Step Support, Left Side              | See 15.1             |
| 30   | REF      | 1    | Steering Axle                        |                      |
| 31   | 400266   | 1    | Screw, 3/8-16 x 1-1/2" Hex Head      |                      |
| 32   | N/S      | 1    | Frame                                |                      |
| 33   | 163927   | 1    | Pivot, Steering Axle                 |                      |
| 34   | 364830   | 3    | Washer                               |                      |
| 35   | 445642   | 1    | Nut, 1-1/2-12 Slotted Hex            |                      |
| 36   | 460072   | 1    | Cotter Pin, 1/4 x 2-1/2"             |                      |

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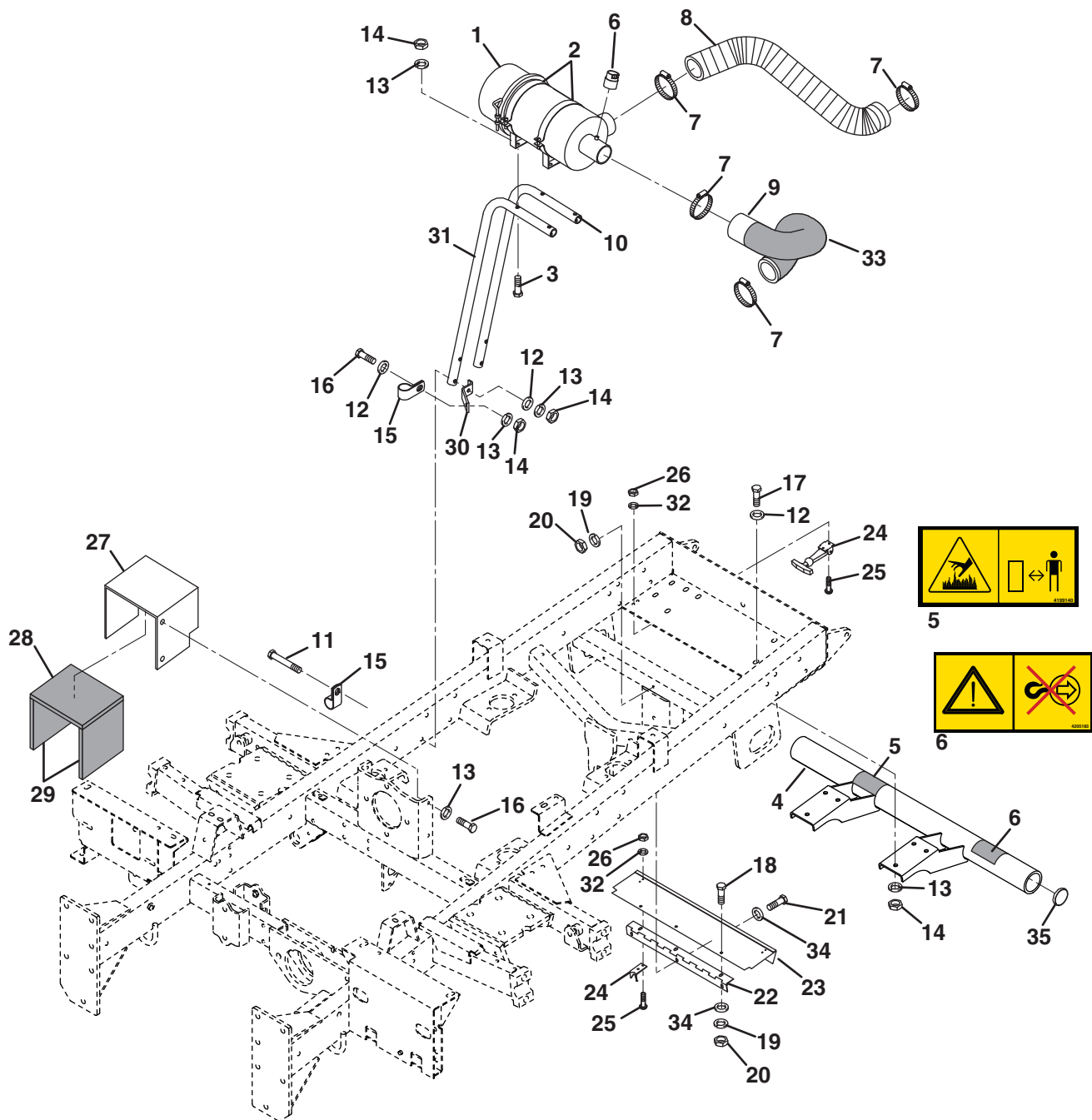
| Item | Part No. | Qty. | Description                        | Serial Numbers/Notes |
|------|----------|------|------------------------------------|----------------------|
| 1    | 2720313  | 1    | Steering Axle                      | See 57.1             |
| 2    | 2720298  | 2    | • Bushing, Axle Pivot              |                      |
| 3    | 3010489  | 4    | • Bushing, Mount Pivot             |                      |
| 4    | 4121827  | 2    | Screw, 1/2-20 x 1-3/4" Socket Head |                      |
| 5    | 443820   | 2    | Nut, 1/2-20 Hex Jam                |                      |
| 6    | 471221   | 3    | Grease Fitting, 90°                |                      |
| 7    | 361648   | 6    | Washer, Thrust                     |                      |
| 8    | 361647   | 2    | Thrust Bearing                     |                      |
| 9    | 367350   | 2    | Washer, Thrust                     |                      |
| 10   | 461393   | 2    | Roll Pin, 1/4 x 2"                 |                      |
| 11   | 4121825  | 1    | Right Side Steering Arm            |                      |
| 12   | 4121826  | 1    | Left Side Steering Arm             |                      |
| 13   | 2000057  | 2    | Motor Mount                        |                      |
| 14   | 401226   | 6    | Screw, 1/2-13 x 1" Hex Grade 8     |                      |
| 15   | 446154   | 14   | Lockwasher, 1/2 Heavy              |                      |
| 16   | 4121946  | 1    | Tie Rod                            |                      |
| 17   | 4121829  | 1    | • Tie Rod End, Right Side          |                      |
| 18   | 4121828  | 1    | • Tie Rod End, Left Side           |                      |
| 19   | 322847   | 2    | • Clamp                            |                      |
| 20   | 4124204  | 2    | • Nut, 9/16-18 Slotted Hex         |                      |
| 21   | 400228   | 2    | • Screw, 5/16-24 x 1-1/4" Hex Head |                      |
| 22   | 446136   | 2    | • Lockwasher, 5/16 Heavy           |                      |
| 23   | 443108   | 2    | • Nut, 5/16-24 Hex                 |                      |
| 24   | 4121986  | 2    | • Cover, Dust                      |                      |
| 25   | 471214   | 2    | • Grease Fitting                   |                      |
| 26   | 4178560  | 2    | Rear Wheel Motor                   |                      |
| 27   | 554780   | 1    | • Key                              |                      |
| 28   | 554779   | 1    | • Nut                              |                      |
| 29   | 339092   | 2    | Guard, Wheel Motor Hose            |                      |
| 30   | 400410   | 8    | Screw, 1/2-13 x 1-3/4" Hex Head    |                      |
| 31   | 315298   | 10   | Bolt, Wheel                        |                      |
| 32   | 2720841  | 2    | Hub, Wheel                         |                      |
| 33   | 361451   | 2    | Washer                             |                      |
| 34   | 460032   | 6    | Cotter Pin, 1/8 x 1-1/2"           |                      |
| 35   | 4138510  | 1    | Steering Cylinder                  |                      |
|      | 4137139  | 1    | • Seal Kit                         |                      |
| 36   | 503095   | 2    | • Ball Joint                       |                      |
| 37   | 471216   | 2    | • Grease Fitting, Straight         |                      |
| 38   | 445672   | 2    | Nut, 5/8-18 Slotted Hex            |                      |
| 39   | 360111   | 2    | Valve, Inflation                   |                      |
| 40   | 366310   | 2    | Tire, 23 x 10.5-12 4 Ply           |                      |
| 41   | 5002894  | 2    | Rim, 12 x 8.5                      |                      |

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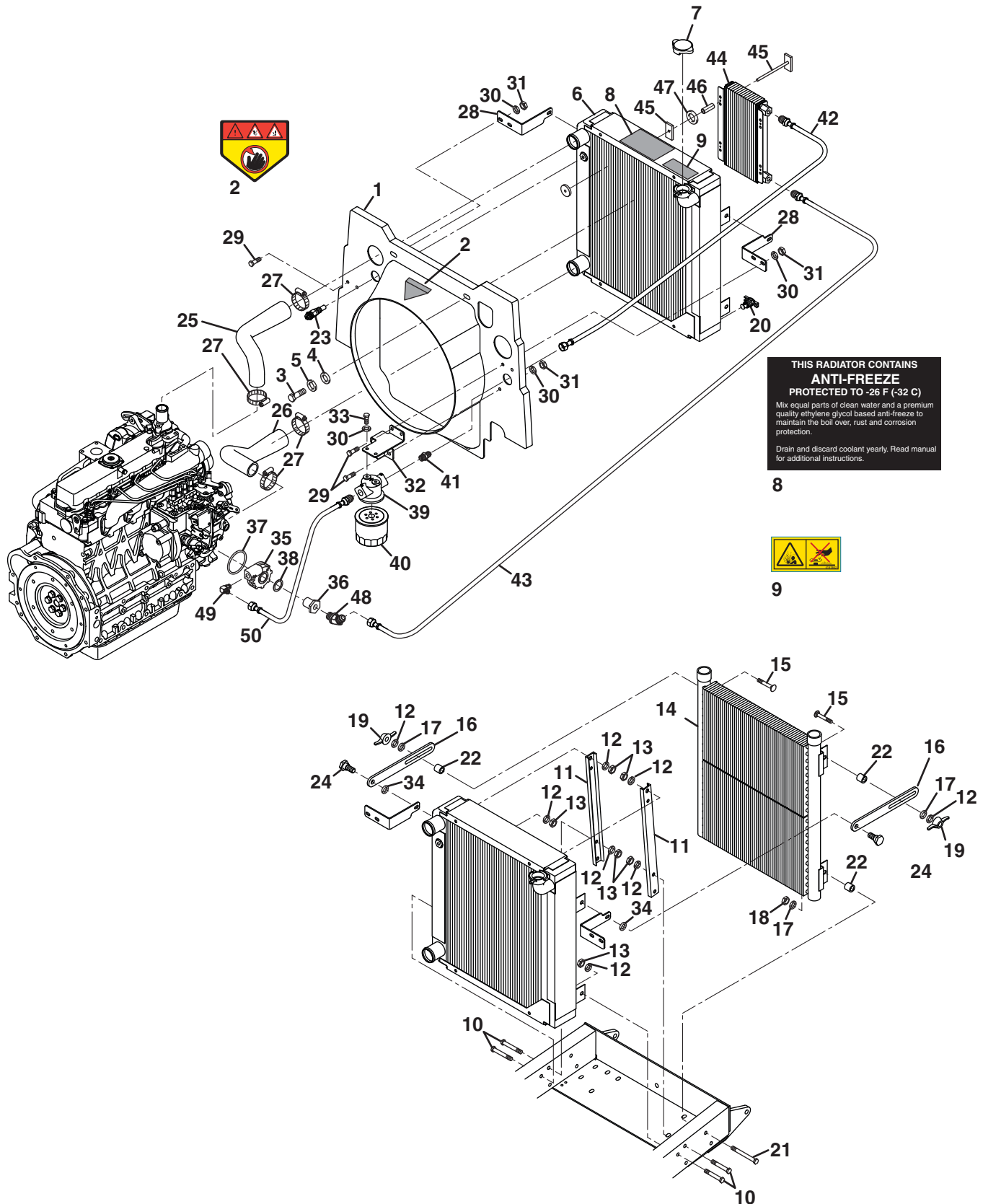
| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes     |
|------|----------|------|-------------------------------------|--------------------------|
| 1    | 4185325  | 1    | Steering Tower                      | REFERENCE U9, See 61.1   |
| 2    | 4196200  | 1    | Bracket, Steering Pump              |                          |
| 3    | 4205980  | 2    | Shoulder Bolt, 3/4-10               |                          |
| 4    | 400258   | 2    | Screw, 3/8-16 x 3/4" Hex Head       |                          |
| 5    | 446142   | 2    | Lockwasher, 3/8-16 Heavy            |                          |
| 6    | 444849   | 2    | Locknut, 3/4-10 Center              |                          |
| 7    | 4197880  | 1    | Steering Valve                      |                          |
|      | 4197940  | 1    | • Seal Kit                          |                          |
| 8    | 443828   | 1    | Nut, 5/8-18 Hex Jam                 |                          |
| 9    | 450192   | 4    | Screw, M8-1.25 x 25 mm Hex Head     |                          |
| 10   | 450411   | 4    | Lockwasher, M8                      |                          |
| 11   | 450410   | 4    | Lockwasher, M6                      |                          |
| 12   | 3001337  | 4    | Screw, M6-1 x 20 mm Hex Head        |                          |
| 13   | 2811547  | 4    | Washer, Steering Wheel              |                          |
| 14   | 2811364  | 1    | Steering Wheel                      |                          |
| 15   | 2811365  | 1    | • Cover, Steering Wheel             |                          |
| 16   | 447224   | 1    | Lockwasher, 5/8 Internal Tooth      |                          |
| 17   | 4182386  | 1    | Decal, Jacobsen Emblem              |                          |
| 18   | 5002918  | 1    | Gas Spring                          |                          |
| 19   | 5002919  | 1    | Cable, Actuator                     |                          |
| 20   | 416911   | 2    | Screw, #10-24 x 1/2" Thread Cutting |                          |
| 21   | 400216   | 1    | Screw, 5/16-18 x 2-3/4" Hex Head    |                          |
| 22   | 400192   | 1    | Screw, 5/16-18 x 1-1/2" Hex Head    |                          |
| 23   | 444718   | 2    | Locknut, 5/16-18 Center             |                          |
| 24   | 367465   | 1    | Bracket, Valve Mounting             |                          |
| 25   | 132523   | 1    | Valve, Weight Transfer              |                          |
|      | 555862   | 1    | • Cartridge, Valve                  |                          |
|      | 5003579  | 1    | • Seal Kit                          |                          |
| 26   | 404022   | 2    | Screw, 1/4-20 x 1" Truss Head       |                          |
| 27   | 446130   | 4    | Lockwasher, 1/4 Heavy               |                          |
| 28   | 443102   | 4    | Nut, 1/4-20 Hex                     |                          |
| 29   | 400120   | 2    | Screw, 1/4-20 x 2" Hex Head         |                          |
| 30   | 453023   | 2    | Flat Washer, 1/4                    |                          |
| 31   | 5000917  | 1    | Horn                                |                          |
| 32   | 400184   | 1    | Screw, 5/16-18 x 3/4" Hex Head      |                          |
| 33   | 446136   | 1    | Lockwasher, 5/16 Heavy              |                          |
| 34   | 452006   | 1    | Flat Washer, 5/16                   |                          |
| 35   | 443106   | 1    | Nut, 5/16-18 Hex                    |                          |
| 36   | 445245   | 8    | Tinnerman Nut                       |                          |
| 37   | 404016   | 8    | Screw, 1/4-20 x 5/8" Truss Head     |                          |
| 38   | 4184622  | 1    | Cover, Steering Tower               |                          |
| 39   | 162739   | 1    | Switch, Horn                        |                          |
| 40   | 4192000  | 1    | Decal, Weight Transfer              |                          |
| 41   | 4210420  | 1    | Shaft, Steering                     |                          |
| 42   | 4201840  | 1    | • Seal, Shaft                       |                          |
| 43   | 4207981  | 4    | Bushing                             |                          |
|      |          |      |                                     | REFERENCE SW20, See 61.1 |

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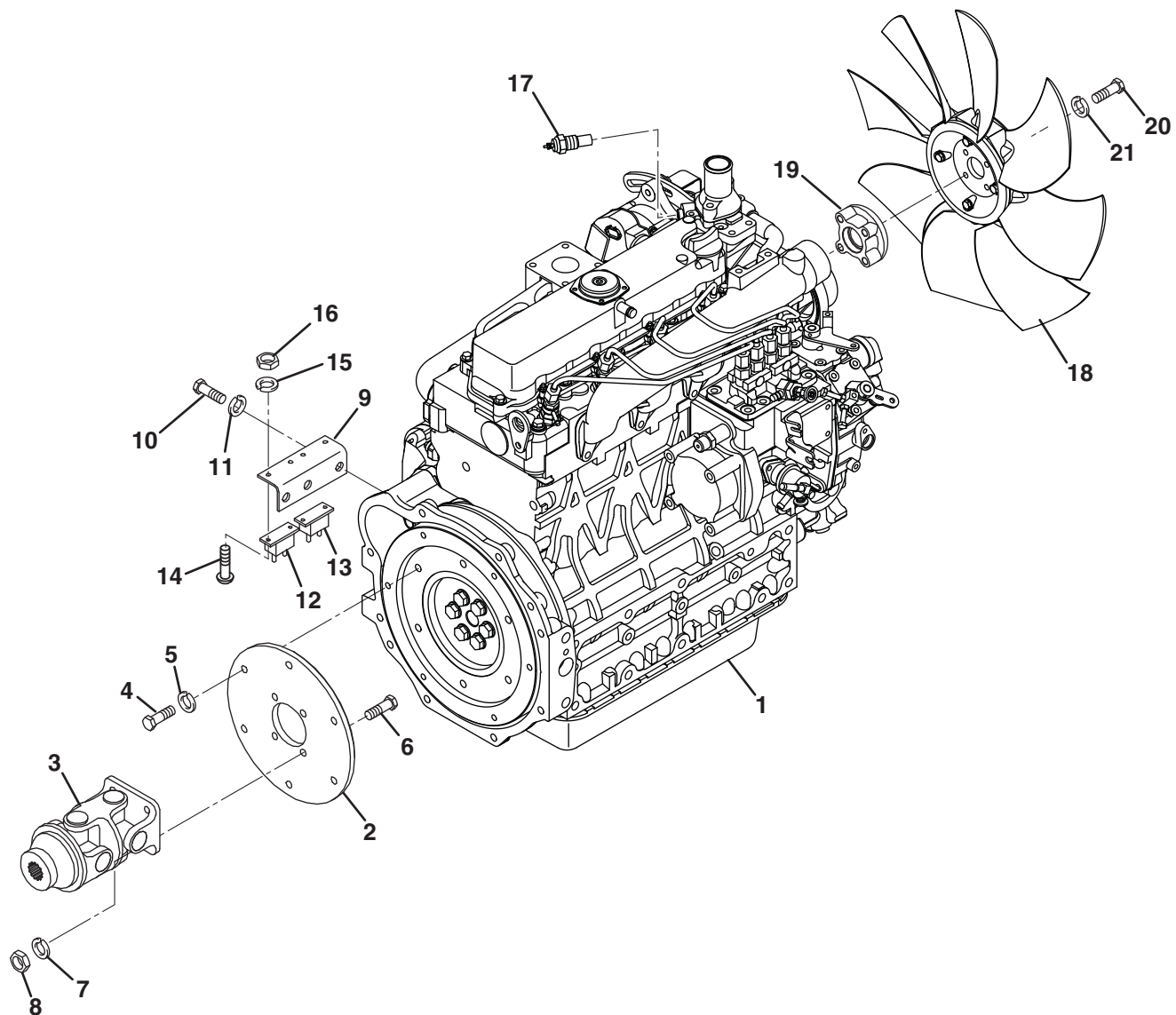
| Item | Part No. | Qty. | Description                        | Serial Numbers/Notes            |
|------|----------|------|------------------------------------|---------------------------------|
| 1    | 122907   | 1    | Air Filter Assembly                |                                 |
|      | 2500704  | 1    | • Wing Nut and Gasket Kit          |                                 |
|      | 549633   | 1    | • Element, Air Cleaner             |                                 |
| 2    | 131059   | 2    | Band, Air Cleaner Mounting         |                                 |
| 3    | 400266   | 4    | Screw, 3/8-16 x 1-1/2" Hex Head    |                                 |
| 4    | 4193342  | 1    | Rear Bumper                        |                                 |
| 5    | 4199140  | 1    | • Decal, Heat Warning              |                                 |
| 6    | 4205183  | 1    | • Decal, Towing Warning            |                                 |
| 7    | 359615   | 4    | Clamp, Hose                        |                                 |
| 8    | 3008512  | 1    | Hose, Air Intake                   |                                 |
| 9    | 390961   | 1    | Hose, Air Cleaner to Engine        |                                 |
| 10   | 338940   | 1    | Support, Rear Air Cleaner          |                                 |
| 11   | 401030   | 4    | Screw, 3/8-16 x 3-3/4" Hex Head    |                                 |
| 12   | 453011   | 15   | Flat Washer, 3/8                   |                                 |
| 13   | 446142   | 17   | Lockwasher, 3/8 Heavy              |                                 |
| 14   | 445806   | 15   | Nut, 3/8-16 Hex Nylock             |                                 |
| 15   | 364190   | 2    | Clamp                              |                                 |
| 16   | 400258   | 5    | Screw, 3/8-16 x 3/4" Hex Head      |                                 |
| 17   | 400262   | 6    | Screw, 3/8-16 x 1" Hex Head        |                                 |
| 18   | 404014   | 3    | Screw, 1/4-20 x 1/2" Truss Head    |                                 |
| 19   | 446130   | 6    | Lockwasher, 1/4 Heavy              |                                 |
| 20   | 443102   | 6    | Nut, 1/4-20 Hex                    |                                 |
| 21   | 400124   | 3    | Screw, 1/4-20 x 2-1/2" Hex Head    |                                 |
| 22   | 3004588  | 1    | Hinge, Drain Panel                 |                                 |
| 23   | 3004563  | 1    | Drain Panel                        |                                 |
| 24   | 161688   | 2    | Latch                              |                                 |
| 25   | 402006   | 8    | Screw, #6-32 x 1/2" Slotted        |                                 |
| 26   | 444304   | 8    | Nut, #6-32 Hex                     |                                 |
| 27   | 366352   | 1    | Cover, Drive Shaft                 |                                 |
| 28   | 366368   | 1    | Foam, Top                          |                                 |
| 29   | 366369   | 2    | Foam, Side                         |                                 |
| 30   | 366342   | 1    | Bracket, Clamp Mounting            |                                 |
| 31   | 338939   | 1    | Support, Front Air Cleaner Support |                                 |
| 32   | 446116   | 8    | Lockwasher, #6                     |                                 |
| 33   | 2208292  | 1    | Cover, Spiraco Hose                |                                 |
| 34   | 453023   | 6    | Flat Washer, 1/4                   |                                 |
| 35   | 366403   | 2    | Plug, Tube                         |                                 |
| 36   | 364883   | 1    | Switch, Air Cleaner Service        | <b>REFERENCE SW11, See 61.1</b> |
| 37   | 473144   | 1    | Cable Tie (Not Shown)              | Secure Intake Hose to Shroud    |

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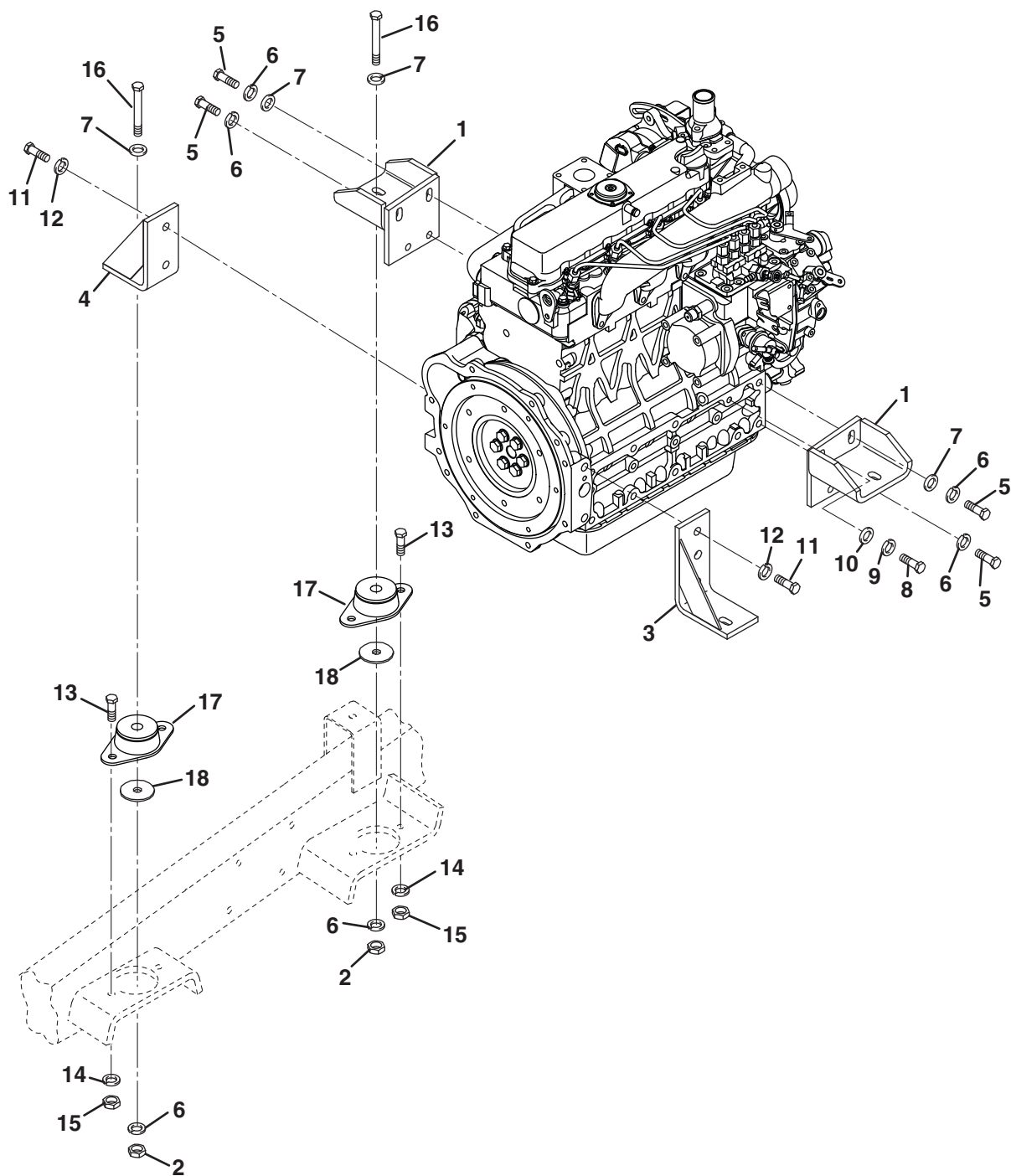
| Item | Part No. | Qty. | Description                                | Serial Numbers/Notes    |
|------|----------|------|--------------------------------------------|-------------------------|
| 1    | 4193343  | 1    | Radiator Shroud                            | Includes Decals         |
| 2    | 4164381  | 1    | • Decal, Danger                            |                         |
| 3    | 400182   | 4    | Screw, 5/16-18 x 5/8" Hex Head             |                         |
| 4    | 452006   | 4    | Flat Washer, 5/16                          |                         |
| 5    | 446136   | 4    | Lockwasher, 5/16 Heavy                     |                         |
| 6    | 503609   | 1    | Radiator                                   |                         |
| 7    | 555867   | 1    | • Radiator Cap                             |                         |
| 8    | 363995   | 1    | • Decal, Antifreeze                        |                         |
| 9    | 4181862  | 1    | • Decal, Radiator Cap Warning              |                         |
| 10   | 400286   | 6    | Screw, 3/8-16 x 2-3/4" Hex Head            |                         |
| 11   | 4189541  | 2    | Bracket, Radiator Support                  |                         |
| 12   | 446142   | 10   | Lockwasher, 3/8 Heavy                      |                         |
| 13   | 445806   | 8    | Nut, 3/8-16 Hex Nylock                     |                         |
| 14   | 117076   | 1    | Oil Cooler                                 |                         |
| 15   | 441630   | 2    | Carriage Bolt, 3/8 x 2"                    |                         |
| 16   | 338979.7 | 2    | Plate, Oil Cooler Pivot                    |                         |
| 17   | 453011   | 4    | Flat Washer, 3/8                           |                         |
| 18   | 444762   | 2    | Locknut, 3/8-16 Center                     |                         |
| 19   | 445636   | 2    | Nut, 3/8-16 Wing                           |                         |
| 20   | 162479   | 1    | Draincock                                  |                         |
| 21   | 400278   | 2    | Screw, 3/8-16 x 3-1/2" Hex Head            |                         |
| 22   | 366600   | 4    | Spacer, Oil Cooler                         |                         |
| 23   | 162722   | 1    | Water Temperature Sender                   | REFERENCE U10, See 61.1 |
| 24   | 344996   | 2    | Bolt, 3/8-16 Shoulder                      |                         |
| 25   | 390962   | 1    | Hose, Upper Radiator                       |                         |
| 26   | 390963   | 1    | Hose, Lower Radiator                       |                         |
| 27   | 326112   | 4    | Hose Clamp                                 |                         |
| 28   | 4189340  | 2    | Bracket, Remote Filter                     |                         |
| 29   | 400186   | 5    | Screw, 5/16-18 x 7/8" Hex Head             |                         |
| 30   | 446136   | 7    | Lockwasher, 5/16 Heavy                     |                         |
| 31   | 443106   | 5    | Nut, 5/16-18 Hex                           |                         |
| 32   | 4186583  | 1    | Bracket, Remote Oil Filter                 |                         |
| 33   | 450190   | 2    | Screw, M8-1.25 x 16 mm Hex Head            |                         |
| 34   | 453009   | 2    | Flat Washer                                |                         |
|      | 4133238  | 1    | Kit, Remote Oil Filter                     | Included with Engine    |
| 35   | 4133239  | 1    | • Adapter, Engine Oil Filter               |                         |
| 36   | 4133240  | 1    | • Plug, Engine Oil Filter                  |                         |
| 37   | 4133241  | 1    | • O-Ring                                   |                         |
| 38   | 4133242  | 1    | • Washer                                   |                         |
| 39   | 4133243  | 1    | • Head, Engine Oil Filter                  | Included with Engine    |
| 40   | 4113986  | 1    | Engine Oil Filter                          |                         |
| 41   | 4186441  | 1    | Adapter, 1/2 NPT x 13/16 ORFS              |                         |
| 42   | 4182500  | 1    | Hose, Filter Head to Cooler                |                         |
| 43   | 4182501  | 1    | Hose, Cooler to Engine Oil Adapter         |                         |
| 44   | 4182460  | 1    | Engine Oil Cooler                          |                         |
| 45   | 4133252  | 4    | Tie, 3 Piece Oil Cooler Mounting           |                         |
| 46   | 4197640  | 4    | Spacer, Oil Cooler                         |                         |
| 47   | 452004   | 4    | Flat Washer, 1/4                           |                         |
| 48   | 4197641  | 1    | Adapter, 3/8 NPT x 13/16 ORFS 45°          |                         |
| 49   | 4137099  | 1    | Adapter, 3/8 NPT x 13/16 ORFS 90°          |                         |
| 50   | 4135261  | 1    | Hose, Engine Filter Adapter to Filter Head |                         |

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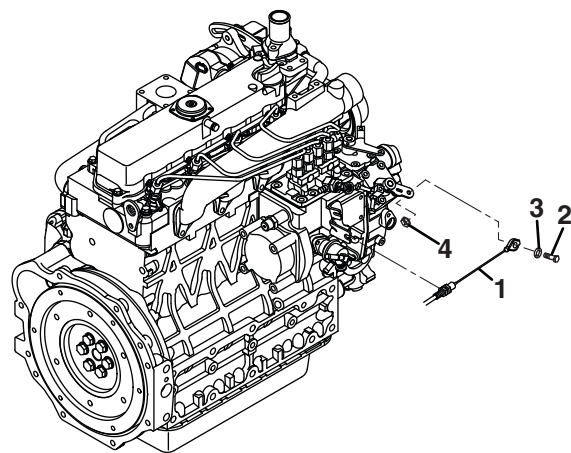
| Item | Part No.                                                                                             | Qty. | Description                        | Serial Numbers/Notes                                                                                                                                                                                                                                                                          |
|------|------------------------------------------------------------------------------------------------------|------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 4161120                                                                                              | 1    | Engine, Kubota V2203M              | For complete listing of engine service parts, See Engine Parts Manual                                                                                                                                                                                                                         |
| 1    | 4200140                                                                                              | 1    | Engine, Kubota V2203M EC           |                                                                                                                                                                                                                                                                                               |
|      | 4113986                                                                                              | 1    | • Engine Oil Filter                | <b>REFERENCE U1, See 61.1</b><br><b>REFERENCE M1, See 61.1</b><br><b>REFERENCE SW17, See 61.1</b><br><b>REFERENCE R1, See 61.1</b><br><b>REFERENCE K13, See 61.1</b><br>Used on engines with 3-7/8 in. (99 mm) fan pulley only.<br>Used on engines with 4-11/16 in. (119 mm) fan pulley only. |
|      | 557619                                                                                               | 1    | • Cartridge, Fuel Filter           |                                                                                                                                                                                                                                                                                               |
|      | 5000938                                                                                              | 1    | • Alternator                       |                                                                                                                                                                                                                                                                                               |
|      | 556988                                                                                               | 1    | • Starter                          |                                                                                                                                                                                                                                                                                               |
|      | 554018                                                                                               | 1    | • Engine Oil Pressure Switch       |                                                                                                                                                                                                                                                                                               |
|      | 556996                                                                                               | 4    | • Glow Plug                        |                                                                                                                                                                                                                                                                                               |
|      | 4134270                                                                                              | 1    | • Fuel Solenoid                    |                                                                                                                                                                                                                                                                                               |
| ●    | 4134323                                                                                              | 1    | • Belt, Fan                        |                                                                                                                                                                                                                                                                                               |
| ●    | 4202300                                                                                              | 1    | • Belt, Fan                        |                                                                                                                                                                                                                                                                                               |
| 2    | 338991                                                                                               | 1    | Pump Drive Flange                  | Metric Grade 8.8                                                                                                                                                                                                                                                                              |
| 3    | 163916                                                                                               | 1    | U-Joint                            |                                                                                                                                                                                                                                                                                               |
|      | 4113644                                                                                              | 1    | • Yoke, Engine Side Flange         |                                                                                                                                                                                                                                                                                               |
|      | 500562                                                                                               | 2    | • Cross Kit                        |                                                                                                                                                                                                                                                                                               |
| 4    | 362263                                                                                               | 6    | Screw, M10-1.25 x 25 mm            |                                                                                                                                                                                                                                                                                               |
| 5    | 363485                                                                                               | 6    | Lockwasher, M10                    |                                                                                                                                                                                                                                                                                               |
| 6    | 400264                                                                                               | 4    | Screw, 3/8-16 x 1-1/4" Hex Head    |                                                                                                                                                                                                                                                                                               |
| 7    | 446142                                                                                               | 4    | Lockwasher, 3/8 Heavy              |                                                                                                                                                                                                                                                                                               |
| 8    | 443110                                                                                               | 4    | Nut, 3/8-16 Hex                    |                                                                                                                                                                                                                                                                                               |
| 9    | 366108                                                                                               | 1    | Bracket, Circuit Breaker Mounting  |                                                                                                                                                                                                                                                                                               |
| 10   | 365980                                                                                               | 2    | Screw, M12-1.25 x 20 mm            | Metric Grade 8.8                                                                                                                                                                                                                                                                              |
| 11   | 446154                                                                                               | 2    | Lockwasher, 1/2 Heavy              | <b>REFERENCE CB6, See 61.1</b><br><b>REFERENCE CB7, See 61.1</b>                                                                                                                                                                                                                              |
| 12   | 361439                                                                                               | 1    | Circuit Breaker, 50 Amp Main       |                                                                                                                                                                                                                                                                                               |
| 13   | 361439                                                                                               | 1    | Circuit Breaker, 50 Amp Alternator | <b>REFERENCE SW16, See 61.1</b>                                                                                                                                                                                                                                                               |
| 14   | 402120                                                                                               | 4    | Screw, #10-24 x 5/8" Slotted       |                                                                                                                                                                                                                                                                                               |
| 15   | 446118                                                                                               | 4    | Lockwasher, #10 Medium             |                                                                                                                                                                                                                                                                                               |
| 16   | 444310                                                                                               | 4    | Nut, #10-24 Hex                    |                                                                                                                                                                                                                                                                                               |
| 17   | 367551                                                                                               | 1    | Switch, Temperature                |                                                                                                                                                                                                                                                                                               |
| 18   | 4205620                                                                                              | 1    | Fan, 8 Blade Suction               |                                                                                                                                                                                                                                                                                               |
| 19   | 553174                                                                                               | 1    | Spacer, Fan                        |                                                                                                                                                                                                                                                                                               |
| 20   | 450003                                                                                               | 4    | Screw, M6-1 x 40 mm Flange         |                                                                                                                                                                                                                                                                                               |
| 21   | 450410                                                                                               | 4    | Lockwasher, M6                     |                                                                                                                                                                                                                                                                                               |
| ●    | Before ordering belt, measure the diameter of the fan pulley. The two belts are not interchangeable. |      |                                    |                                                                                                                                                                                                                                                                                               |

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| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes |
|------|----------|------|---------------------------------|----------------------|
| 1    | 4163820  | 2    | Mount, Rear Engine              | Metric Grade 8.8     |
| 2    | 443118   | 4    | Nut, 1/2-13 Hex                 |                      |
| 3    | 4197821  | 1    | Mount, Left Front Engine        |                      |
| 4    | 132425   | 1    | Mount, Right Front Engine       |                      |
| 5    | 365979   | 7    | Screw, M12-1.25 x 25 mm         |                      |
| 6    | 446154   | 11   | Lockwasher, 1/2 Heavy           | Metric Grade 8.8     |
| 7    | 453017   | 7    | Flat Washer, 1/2                |                      |
| 8    | 362263   | 1    | Screw, M10-1.25 x 25 mm         |                      |
| 9    | 363485   | 1    | Lockwasher, M10                 |                      |
| 10   | 453013   | 1    | Flat Washer, 7/16               |                      |
| 11   | 365981   | 4    | Screw, M14-1.5 x 25 mm          | Metric Grade 8.8     |
| 12   | 446160   | 4    | Lockwasher, 9/16 Heavy          |                      |
| 13   | 400262   | 8    | Screw, 3/8-16 x 1" Hex Head     |                      |
| 14   | 446142   | 8    | Lockwasher, 3/8 Heavy           |                      |
| 15   | 443110   | 8    | Nut, 3/8-16 Hex                 |                      |
| 16   | 400428   | 4    | Screw, 1/2-13 x 2-3/4" Hex Head |                      |
| 17   | 4185160  | 4    | Isolator, Engine                |                      |
| 18   | 311879   | 4    | Washer, Isolator                |                      |

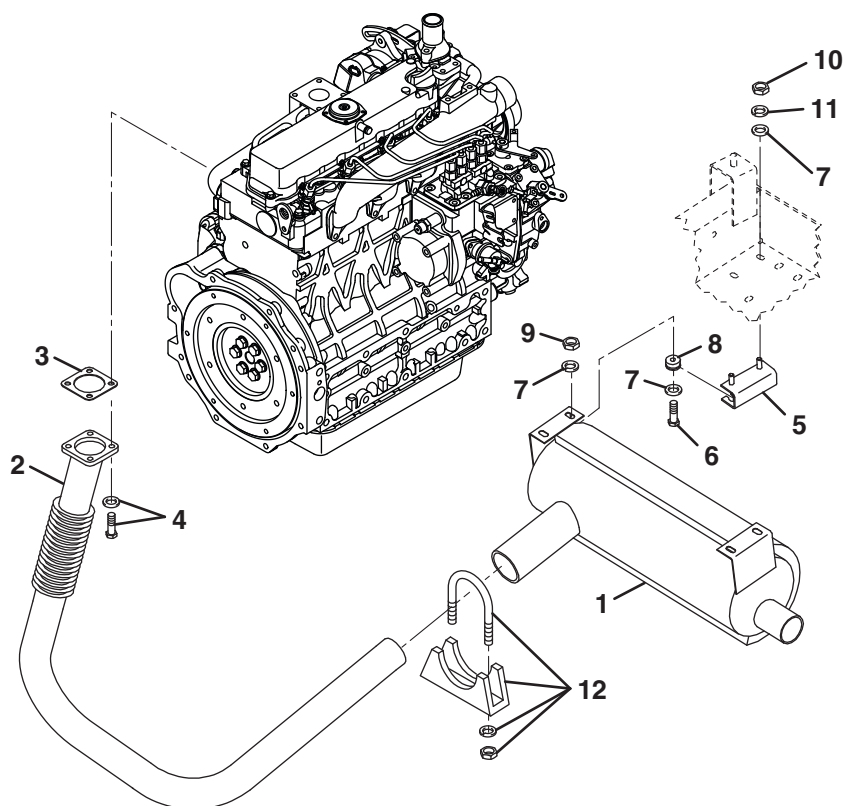
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| Item | Part No. | Qty. | Description                   | Serial Numbers/Notes |
|------|----------|------|-------------------------------|----------------------|
| 1    | 4177920  | 1    | Throttle Cable                | See 9.1              |
| 2    | 400108   | 1    | Screw, 1/4-20 x 3/4" Hex Head |                      |
| 3    | 453023   | 1    | Flat Washer, 1/4              |                      |
| 4    | 444708   | 1    | Locknut, 1/4-20 Center        |                      |

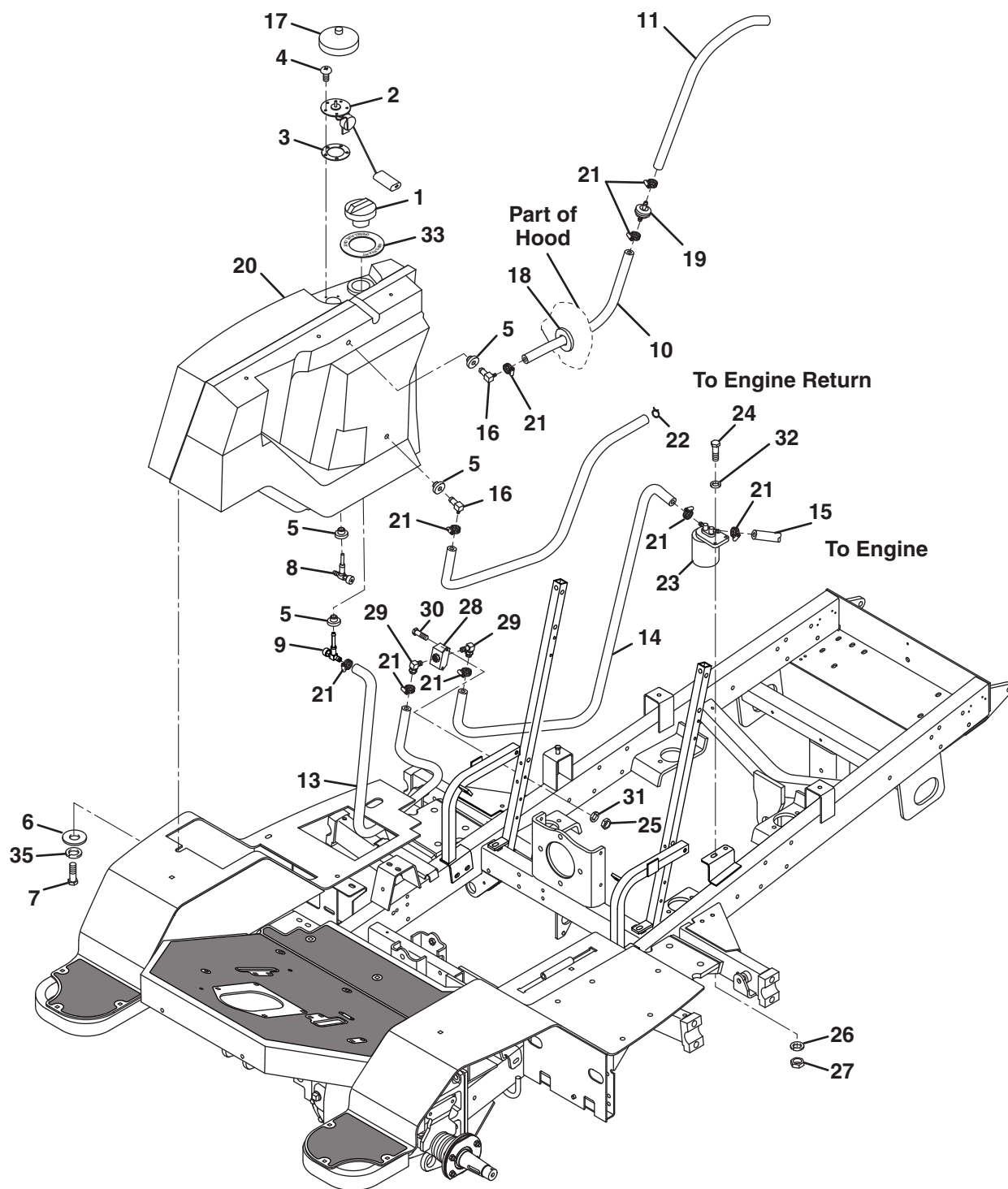
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## 22.1 Muffler



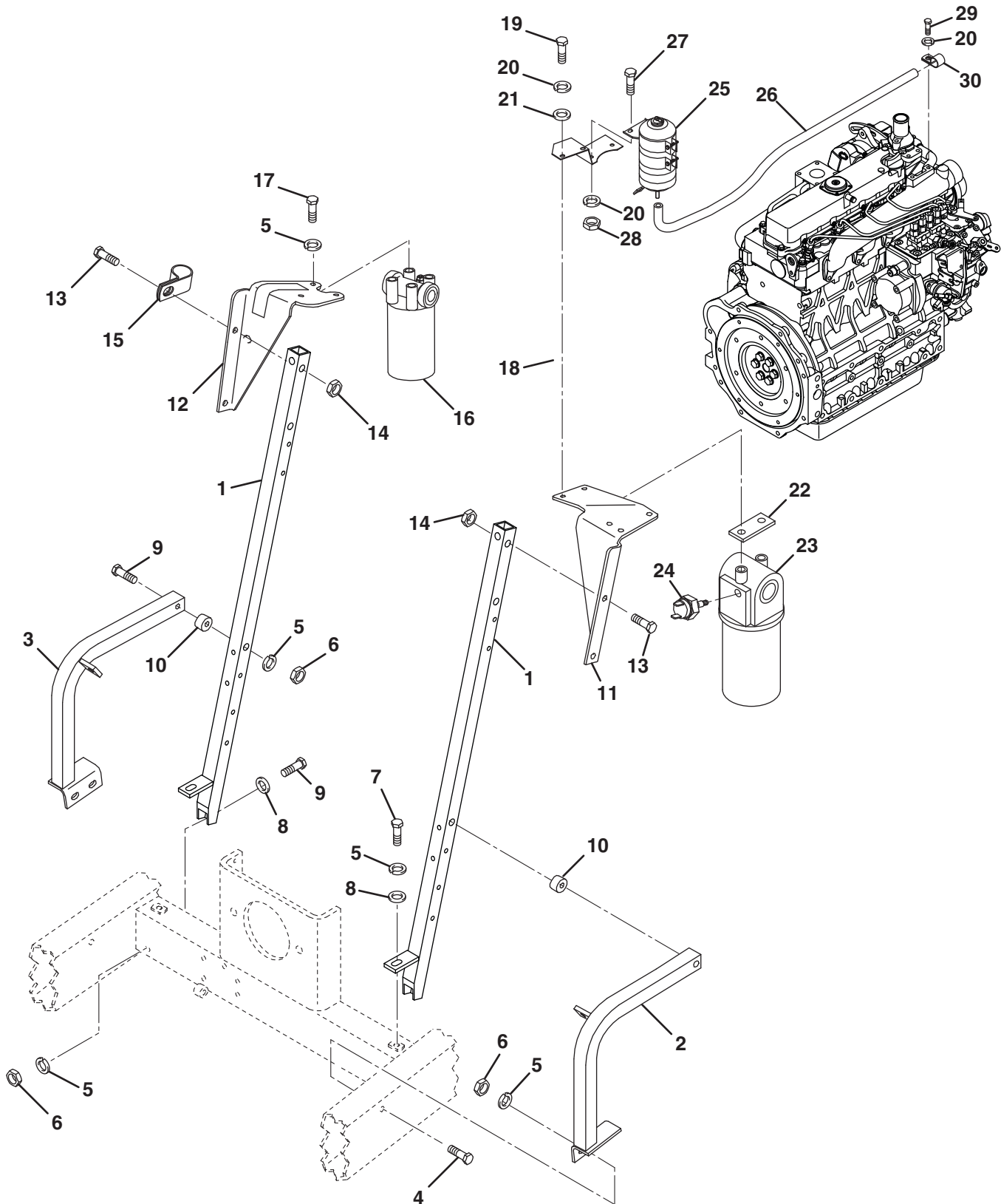
| Item | Part No. | Qty. | Description                  | Serial Numbers/Notes                         |
|------|----------|------|------------------------------|----------------------------------------------|
| 1    | 1001226  | 1    | Muffler                      | Included with Engine<br>Included with Engine |
| 2    | 1001251  | 1    | Exhaust Pipe                 |                                              |
| 3    | 553020   | 1    | Gasket, Exhaust              |                                              |
| 4    | 594331   | 4    | Bolt and Lockwasher Set      |                                              |
| 5    | 1000050  | 2    | Muffler Bracket              |                                              |
| 6    | 400188   | 4    | Screw, 5/16-18 x 1" Hex Head |                                              |
| 7    | 452006   | 12   | Flat Washer, 5/16            |                                              |
| 8    | 3000098  | 4    | Mount, Isolation             |                                              |
| 9    | 444718   | 4    | Locknut, 5/16-18 Center      |                                              |
| 10   | 443106   | 4    | Nut, 5/16-18 Hex             |                                              |
| 11   | 446136   | 4    | Lockwasher, 5/16 Heavy       |                                              |
| 12   | 162236   | 1    | Clamp, 2-1/8" Muffler        |                                              |

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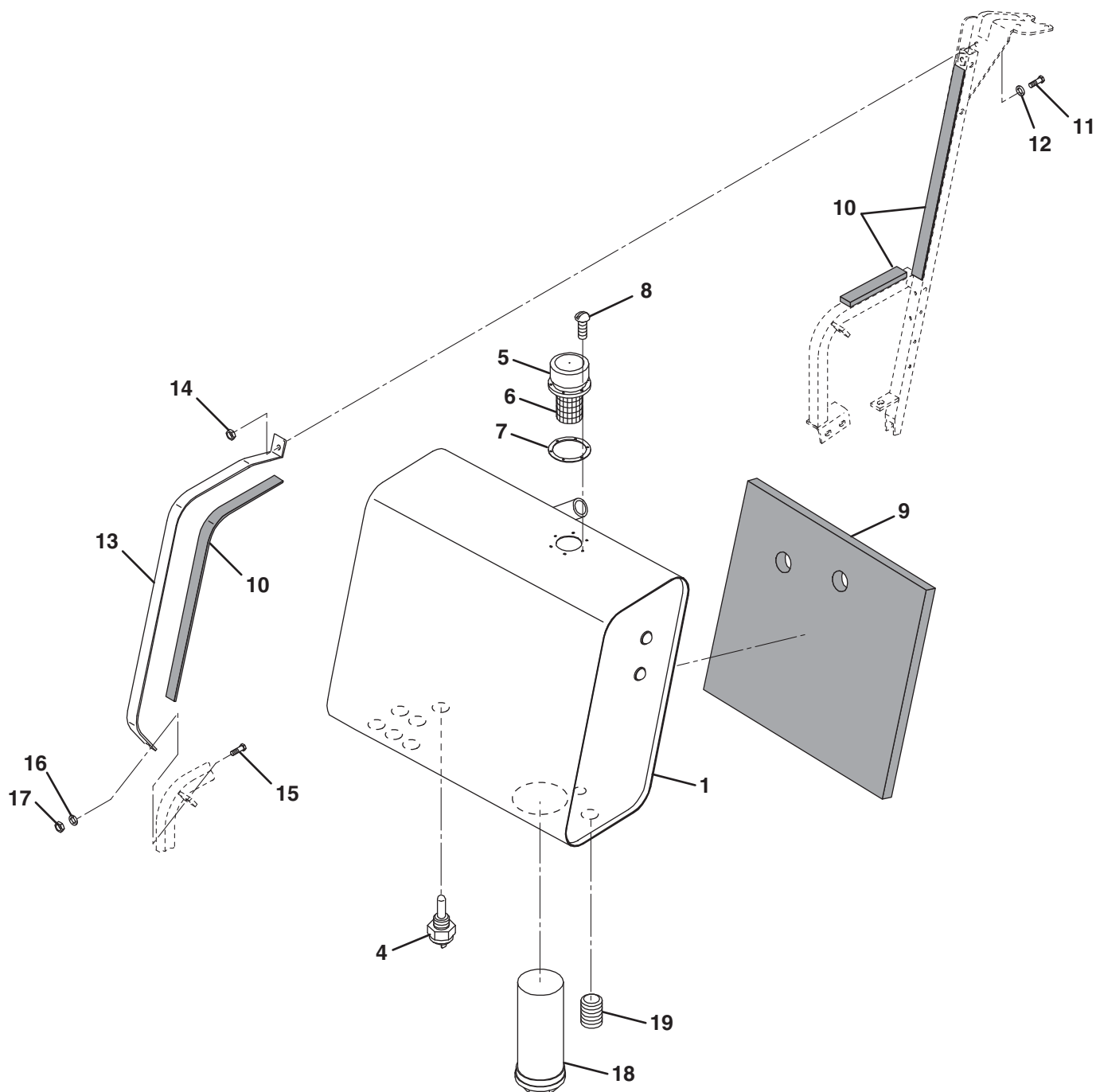


| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes           |
|------|----------|------|----------------------------------|--------------------------------|
| 1    | 163987   | 1    | Fuel Cap                         | <b>REFERENCE U8, See 61.1</b>  |
| 2    | 163986   | 1    | Fuel Sender                      |                                |
| 3    | 148081   | 1    | • Gasket                         |                                |
| 4    | 403910   | 5    | Screw, #10-24 x 1/2" Truss Head  |                                |
| 5    | 361117   | 4    | Bushing, Fuel                    |                                |
| 6    | 452006   | 2    | Flat Washer, 5/16                |                                |
| 7    | 400188   | 2    | Screw, 5/16-18 x 1" Hex Head     |                                |
| 8    | 132647   | 1    | Valve, Drain                     |                                |
| 9    | 1001311  | 1    | Valve, Shut Off                  |                                |
| 10   | 554752   | 1    | Hose, 3/16" Fuel (Cut to 37")    |                                |
| 11   | 554752   | 1    | Hose, 3/16" Fuel (Cut to 12")    | Tank to Breather Filter        |
| 12   | 554752   | 1    | Hose, 3/16" Fuel (Cut to 44")    | Breather Filter to Clamp       |
| 13   | 554748   | 1    | Hose, 5/16" Fuel (Cut to 22")    | Engine Return to Tank          |
| 14   | 554748   | 1    | Hose, 5/16" Fuel (Cut to 26")    | Tank To Fuel Pump              |
| 15   | 554748   | 1    | Hose, 5/16" Fuel (Cut to 9-1/2") | Fuel Pump to Fuel Filter       |
| 16   | 361748   | 2    | Valve, Overflow                  | Fuel Filter to Engine          |
| 17   | 340481   | 1    | Cover, Sender                    |                                |
| 18   | 352604   | 1    | Grommet                          |                                |
| 19   | 554596   | 1    | Filter, Fuel Breather            |                                |
| 20   | 4198820  | 1    | Fuel Tank                        |                                |
| 21   | 48540-01 | 10   | Clamp, Hose                      |                                |
| 22   | 472801   | 1    | Clamp, Hose                      |                                |
| 23   | 503626   | 1    | Fuel Filter                      | Included with Engine           |
|      | 557619   | 1    | • Cartridge, Fuel Filter         |                                |
| 24   | 400264   | 2    | Screw, 3/8-16 x 1-1/4" Hex Head  |                                |
| 25   | 443102   | 2    | Nut, 1/4-20 Hex                  |                                |
| 26   | 446142   | 2    | Lockwasher, 3/8 Heavy            |                                |
| 27   | 443110   | 2    | Nut, 3/8-16 Hex                  |                                |
| 28   | 163574   | 1    | Fuel Pump                        | <b>REFERENCE U9, See 61.1</b>  |
| 29   | 365976   | 2    | Elbow, 90°                       |                                |
| 30   | 400118   | 2    | Screw, 1/4-20 x 1-3/4" Hex Head  |                                |
| 31   | 446130   | 2    | Lockwasher, 1/4 Heavy            |                                |
| 32   | 453011   | 2    | Flat Washer                      |                                |
| 33   | 4181262  | 1    | Tag, Diesel Fuel                 |                                |
| 34   | 473108   | 1    | Bullet, Connector                | Not Shown, Fuel Pump Pos. Wire |
| 35   | 446134   | 2    | Lockwasher, 5/16                 |                                |

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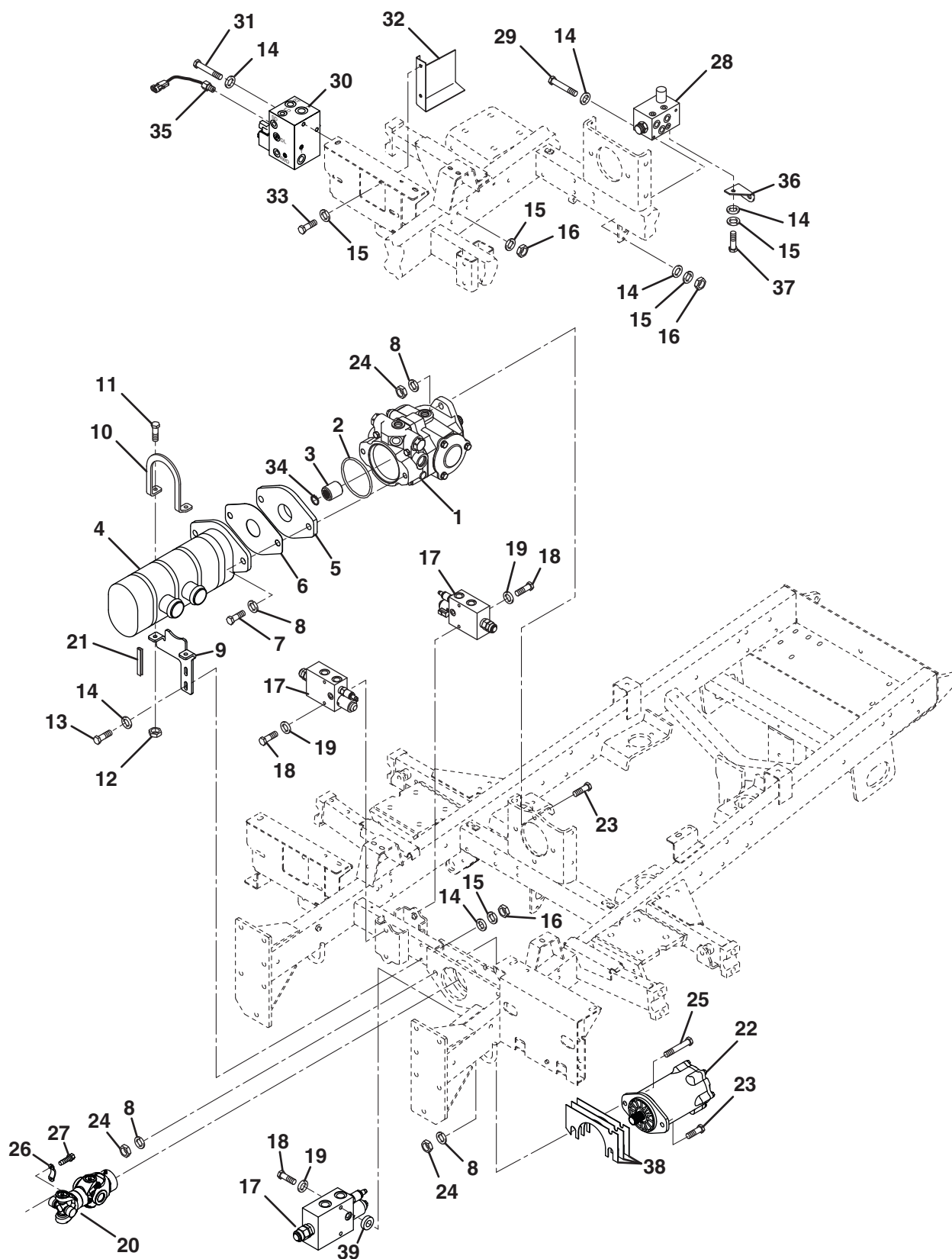




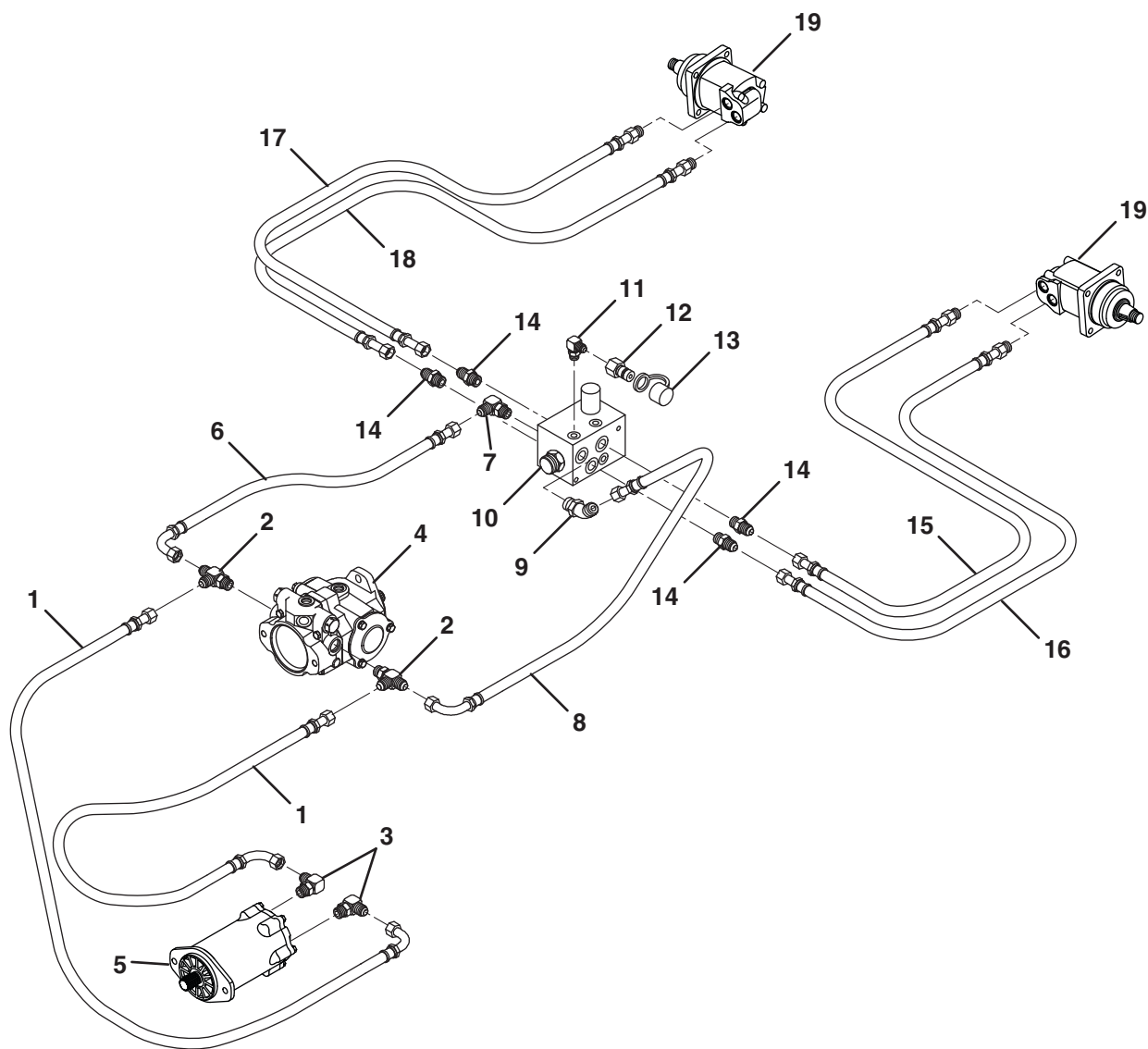


| Item | Part No.                                                                                                                                                                                                                                         | Qty. | Description                       | Serial Numbers/Notes         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------|------------------------------|
| 1    | 503612                                                                                                                                                                                                                                           | 1    | Hydraulic Oil Tank                | Includes Decals              |
| 2    |                                                                                                                                                                                                                                                  |      |                                   |                              |
| 3    |                                                                                                                                                                                                                                                  |      |                                   |                              |
| 4    | 367551                                                                                                                                                                                                                                           | 1    | Switch, Hydraulic Oil Temperature | REFERENCE SW13, See 61.1     |
| ★ 5  | 163915                                                                                                                                                                                                                                           | 1    | Breather, Tank                    | Important note located below |
| ★ 6  | 557680                                                                                                                                                                                                                                           | 1    | • Screen                          |                              |
| ★ 7  | 557681                                                                                                                                                                                                                                           | 2    | • Gasket, Rubber                  |                              |
| ★ 8  | 402120                                                                                                                                                                                                                                           | 6    | Screw, #10-24 x 5/8" Slotted      |                              |
| 9    | 338941                                                                                                                                                                                                                                           | 1    | Foam, Tank                        | 10 Foot Roll                 |
| 10   | 558012                                                                                                                                                                                                                                           | AR   | Pad, Tank (Cut to Fit)            |                              |
| 11   | 400268                                                                                                                                                                                                                                           | 2    | Screw, 3/8-16 x 1-3/4" Hex Head   |                              |
| 12   | 453011                                                                                                                                                                                                                                           | 2    | Flat WAsher, 3/8                  |                              |
| 13   | 3001409                                                                                                                                                                                                                                          | 2    | Strap, Oil Tank                   |                              |
| 14   | 444762                                                                                                                                                                                                                                           | 2    | Locknut, 3/8-16 Center            |                              |
| 15   | 400264                                                                                                                                                                                                                                           | 2    | Screw, 3/8-16 x 1-1/4" Hex Head   |                              |
| 16   | 446142                                                                                                                                                                                                                                           | 2    | Lockwasher, 3/8 Heavy             |                              |
| 17   | 443110                                                                                                                                                                                                                                           | 2    | Nut, 3/8-16 Hex                   |                              |
| 18   | 365959                                                                                                                                                                                                                                           | 1    | Strainer, 100 Mesh Screen         |                              |
|      | 2812075                                                                                                                                                                                                                                          | 1    | • O-Ring                          |                              |
| 19   | 69051-04                                                                                                                                                                                                                                         | 1    | Plug, Pipe                        |                              |
|      |                                                                                                                                                                                                                                                  |      |                                   |                              |
| ★    | IMPORTANT: Discard the six #10-32 x 1/2" self threading screws included with Tank Breather Assembly. Using self threading screws will cause damage to hydraulic tank. Use #10-24 x 5/8" Slotted Head screws (Item 8) to secure breather to tank. |      |                                   |                              |

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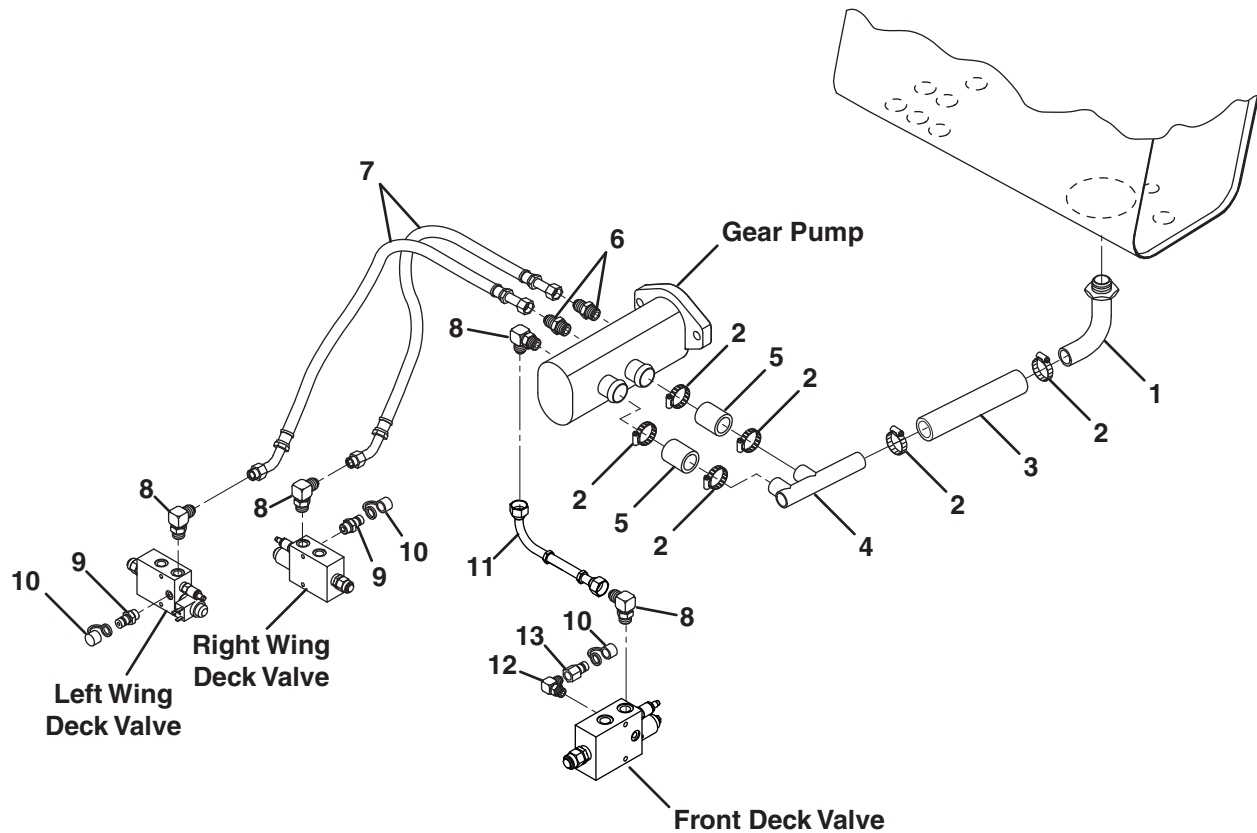






| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes                                               |
|------|----------|------|-----------------------------------|--------------------------------------------------------------------|
| 1    | 132417   | 2    | Hose, Traction Pump to Axle Motor | See 26.1 for component mounting<br>See 26.1 for component mounting |
| 2    | 340269   | 2    | Adapter, Tee                      |                                                                    |
| 3    | 340074   | 2    | Adapter, 90°                      |                                                                    |
| 4    | 4153880  | 1    | Traction Pump                     |                                                                    |
| 5    | 4170780  | 1    | Front Axle Motor                  |                                                                    |
| 6    | 132446   | 1    | Hose, Pump to 4WD Valve Port B    | See 26.1 for component mounting                                    |
| 7    | 340070   | 1    | Adapter, 90°                      |                                                                    |
| 8    | 132484   | 1    | Hose, Pump to 4WD Valve Port A    |                                                                    |
| 9    | 340033   | 1    | Adapter, 45°                      |                                                                    |
| 10   | 4135555  | 1    | 4WD Valve                         |                                                                    |
| 11   | 340065   | 2    | Adapter, 90°                      |                                                                    |
| 12   | 364945   | 2    | Adapter, Diagnostic Port          |                                                                    |
| 13   | 363030   | 2    | Dust Cover                        |                                                                    |
| 14   | 339989   | 4    | Adapter, Straight                 |                                                                    |
|      | 1000843  | 1    | Hose Assembly, Left Wheel Motor   |                                                                    |
|      | 1000700  | 1    | • Hose, Motor Drain (Not Shown)   | See 33.1                                                           |
| 15   | 132448   | 1    | • Hose, 4WD Valve to Motor        | 4WD Valve Port L2, Motor Port A                                    |
| 16   | 132448   | 1    | • Hose, 4WD Valve to Motor        | 4WD Valve Port L1, Motor Port B                                    |
|      | 1000843  | 1    | Hose Assembly, Right Wheel Motor  | See 33.1                                                           |
|      | 1000700  | 1    | • Hose, Motor Drain (Not Shown)   |                                                                    |
| 17   | 132448   | 1    | • Hose, 4WD Valve to Motor        |                                                                    |
| 18   | 132448   | 1    | • Hose, 4WD Valve to Motor        |                                                                    |
| 19   | 4178560  | 2    | Rear Wheel Motor                  | See 15.1 for component mounting                                    |

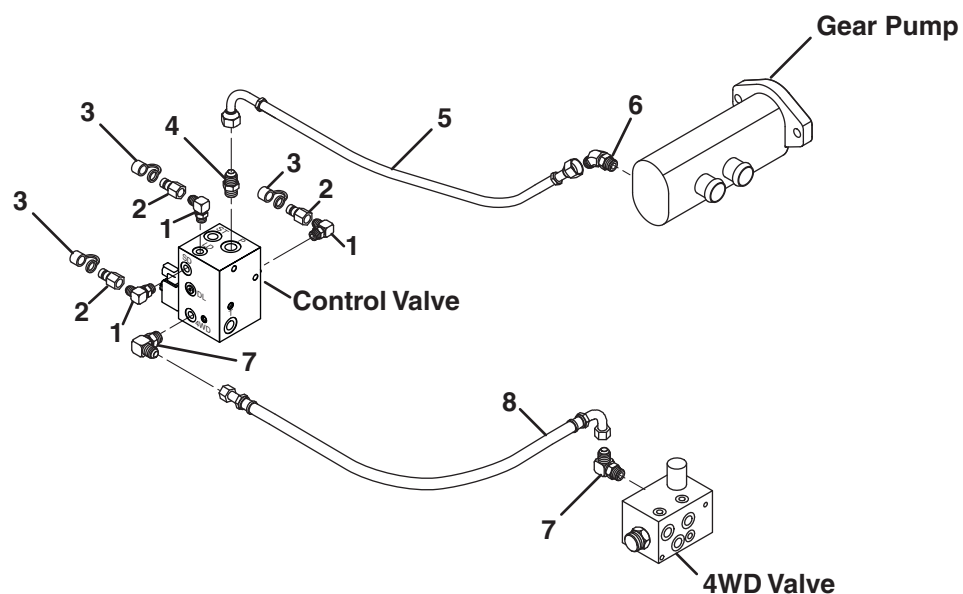
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| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes |
|------|----------|------|---------------------------------|----------------------|
| 1    | 338946   | 1    | Adapter, 90° Beaded             |                      |
|      | 339903   | 1    | • O-Ring                        |                      |
| 2    | 326112   | 6    | Clamp, Hose                     |                      |
| 3    | 4148898  | 1    | Hose, Pump Suction              |                      |
| 4    | 339113   | 1    | Manifold, Pump Suction          |                      |
| 5    | 4148899  | 2    | Hose, Pump Suction              |                      |
| 6    | 339989   | 2    | Adapter, Straight               |                      |
| 7    | 1003104  | 2    | Hose, Pump to Deck Valve P Port |                      |
| 8    | 340070   | 4    | Adapter, 90°                    |                      |
| 9    | 365466   | 2    | Adapter, Diagnostic Port        |                      |
| 10   | 363030   | 3    | Dust Cover                      |                      |
| 11   | 4179761  | 1    | Hose, Front Deck Valve          |                      |
| 12   | 340065   | 1    | Adapter, 90°                    |                      |
| 13   | 364945   | 1    | Adapter, Diagnostic Port        |                      |

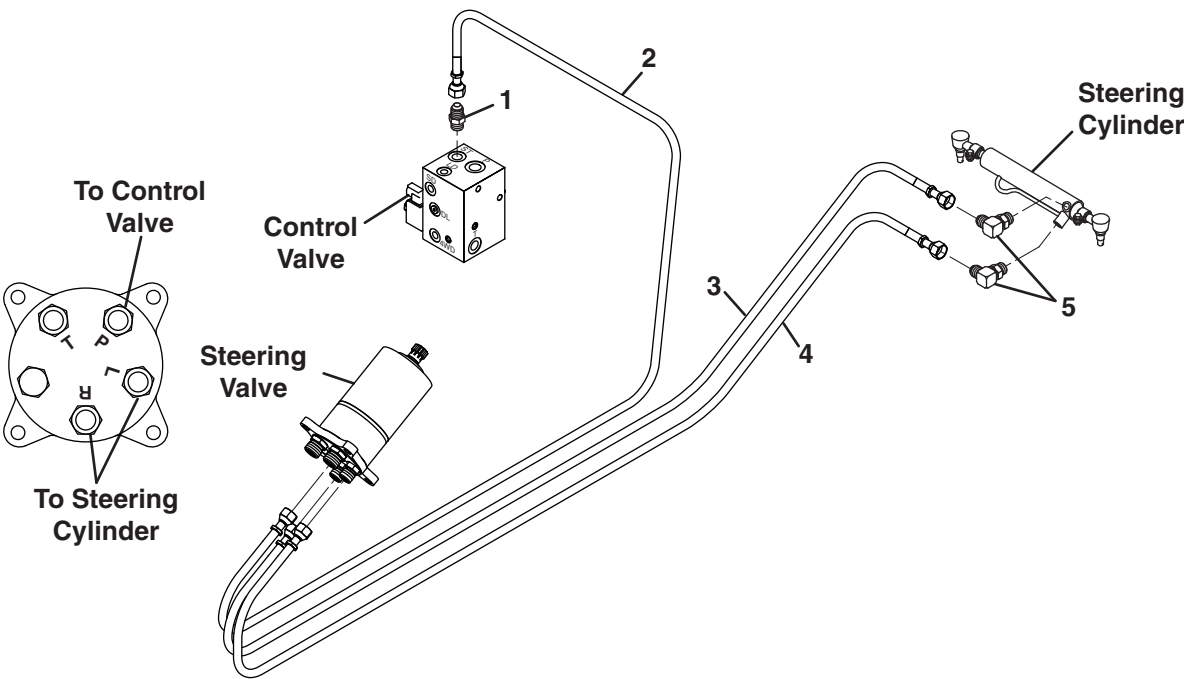
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## 29.1 Control Valve Hydraulics



| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes |
|------|----------|------|----------------------------------|----------------------|
| 1    | 340065   | 3    | Adapter, 90°                     | Control Valve Port P |
| 2    | 364945   | 3    | Adapter, Diagnostic Port         |                      |
| 3    | 363030   | 3    | Dust Cover                       |                      |
| 4    | 339989   | 1    | Adapter, Straight                |                      |
| 5    | 1003105  | 1    | Hose, Pump to Control Valve      |                      |
| 6    | 340033   | 1    | Adapter, 45°                     |                      |
| 7    | 340061   | 1    | Adapter, 90°                     |                      |
| 8    | 132447   | 1    | Hose, Control Valve to 4WD Valve |                      |
| 9    | 339979   | 1    | Adapter, Straight                |                      |

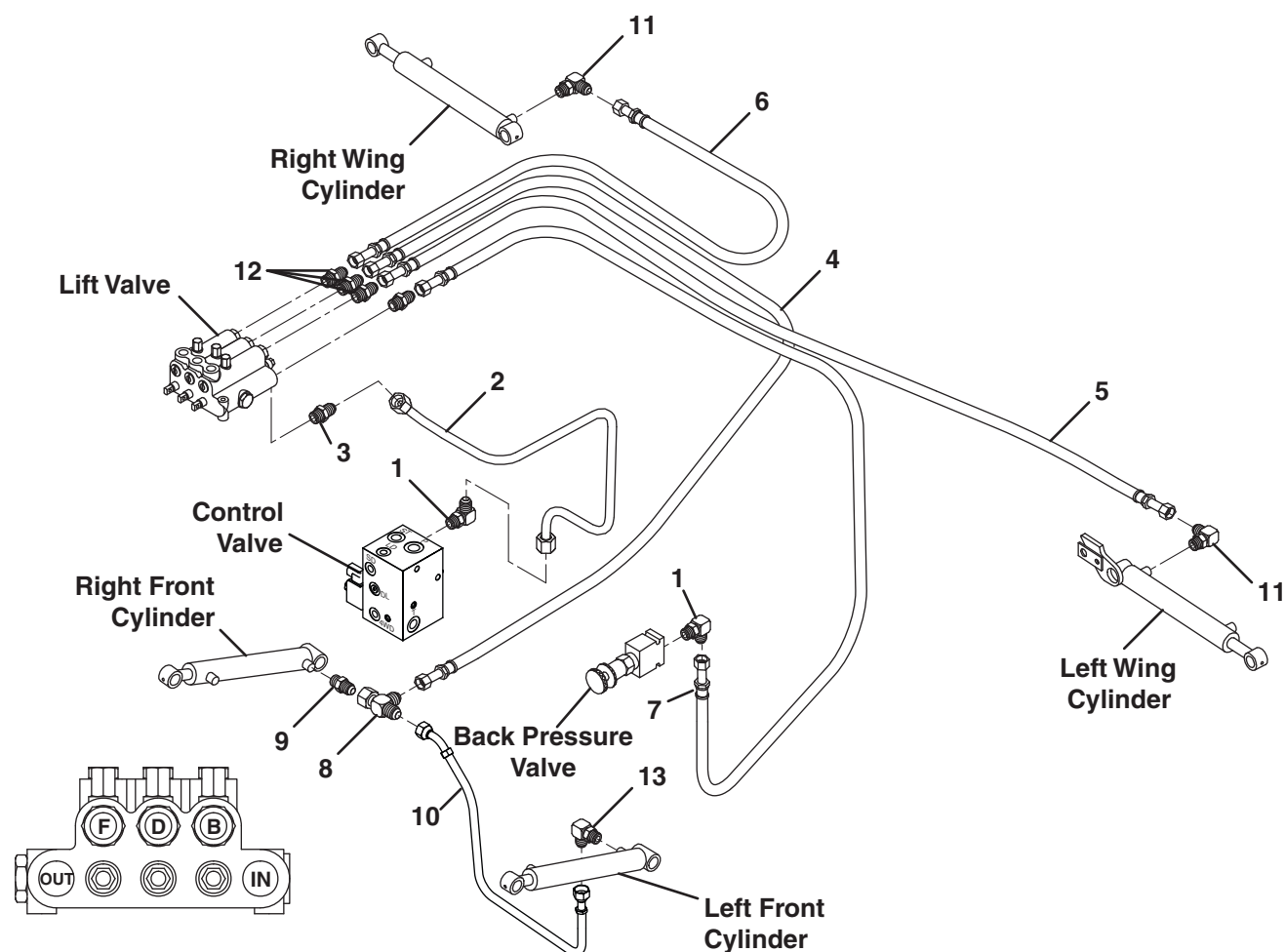
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| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes                                                                         |
|------|----------|------|----------------------------------|----------------------------------------------------------------------------------------------|
| 1    | 339984   | 1    | Adapter, Straight                | Steering Valve Port P<br>Steering Valve Port L, Base Port<br>Steering Valve Port R, Rod Port |
| 2    | 4185401  | 1    | Hose, Control Valve to Steering  |                                                                                              |
| 3    | 4189080  | 1    | Hose, Steering Valve to Cylinder |                                                                                              |
| 4    | 4189080  | 1    | Hose, Steering Cylinder to Valve |                                                                                              |
| 5    | 340061   | 2    | Adapter, 90°                     |                                                                                              |

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## 31.1 Lift Hydraulics

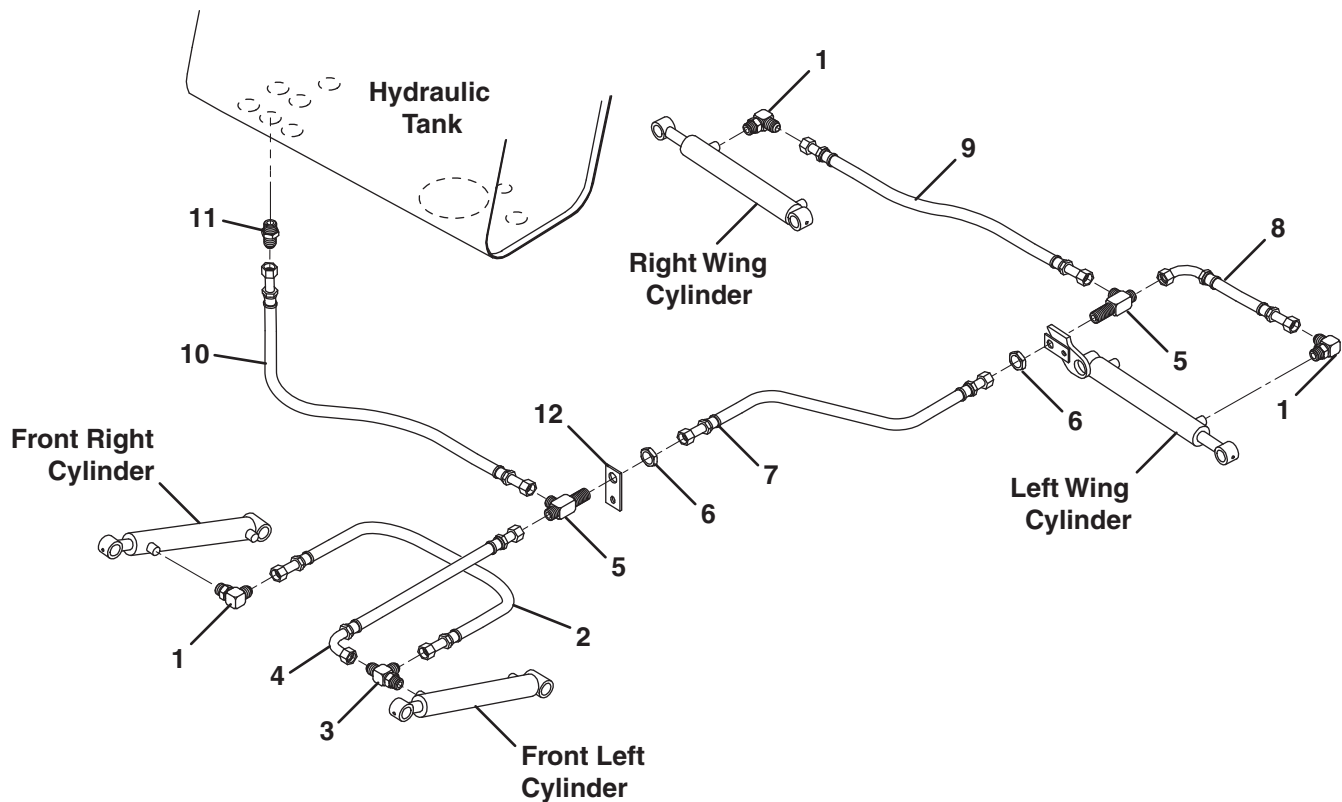


| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes                                                                                         |
|------|----------|------|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1    | 340066   | 2    | Adapter, 90°                        | Lift Valve Port IN<br><br>Lift Valve Port D<br>Lift Valve Port F<br>Lift Valve Port B<br>Lift Valve Port OUT |
| 2    | 123222   | 1    | Tube, Control Valve to Lift Valve   |                                                                                                              |
| 3    | 339984   | 2    | Adapter, Straight                   |                                                                                                              |
| 4    | 132571   | 1    | Hose, Lift Valve to Front Cylinders |                                                                                                              |
| 5    | 132571   | 1    | Hose, Lift Valve to Left Cylinder   |                                                                                                              |
| 6    | 132573   | 1    | Hose, Lift Valve to Right Cylinder  |                                                                                                              |
| 7    | 4188043  | 1    | Hose, Lift to Backpressure Valve    |                                                                                                              |
| 8    | 340119   | 1    | Adapter, Tee                        |                                                                                                              |
| 9    | 340003   | 1    | Adapter, Straight                   |                                                                                                              |
| 10   | 4193301  | 1    | Hose, Cylinder to Cylinder          |                                                                                                              |
| 11   | 340078   | 2    | Adapter, 90°                        |                                                                                                              |
| 12   | 339979   | 3    | Adapter, Straight                   |                                                                                                              |
| 13   | 340088   | 1    | Adapter, 90°                        |                                                                                                              |

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## 32.1 Lift Return Hydraulics

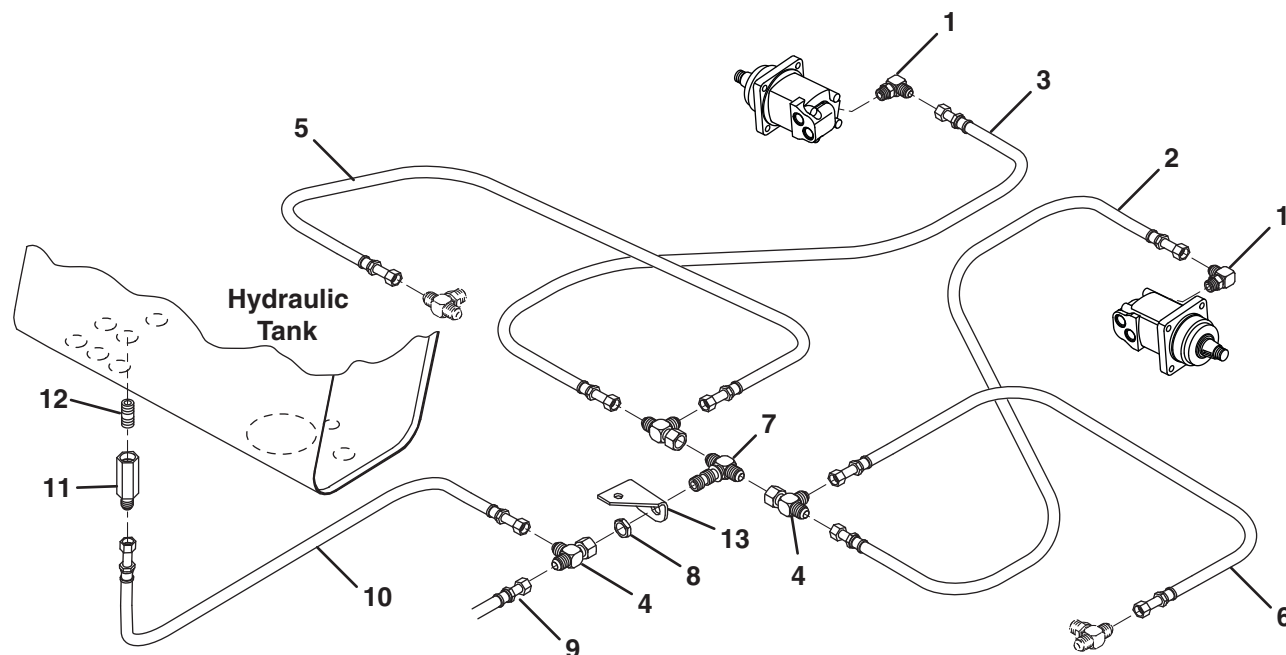
Serial No. All



| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes |
|------|----------|------|----------------------------------|----------------------|
| 1    | 340061   | 3    | Adapter, 90°                     | See 44.1             |
| 2    | 1003595  | 1    | Hose, Cylinder to Cylinder       |                      |
| 3    | 340263   | 1    | Adapter, Tee                     |                      |
| 4    | 4197560  | 1    | Hose, Front Cylinder to Bulkhead |                      |
| 5    | 340215   | 2    | Adapter, Bulkhead Tee            |                      |
| 6    | 339961   | 2    | • Nut, Bulkhead                  |                      |
| 7    | 4193300  | 1    | Hose, Tee to Tee                 |                      |
| 8    | 132569   | 1    | Hose, Left Cylinder to Bulkhead  |                      |
| 9    | 132568   | 1    | Hose, Right Cylinder to Bulkhead |                      |
| 10   | 132583   | 1    | Hose, Tee to Tank                |                      |
| 11   | 351124   | 1    | Adapter, Straight                |                      |
| 12   | 366437.7 | 1    | Bracket, Bulkhead                |                      |

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## 33.1 Motor Return Hydraulics

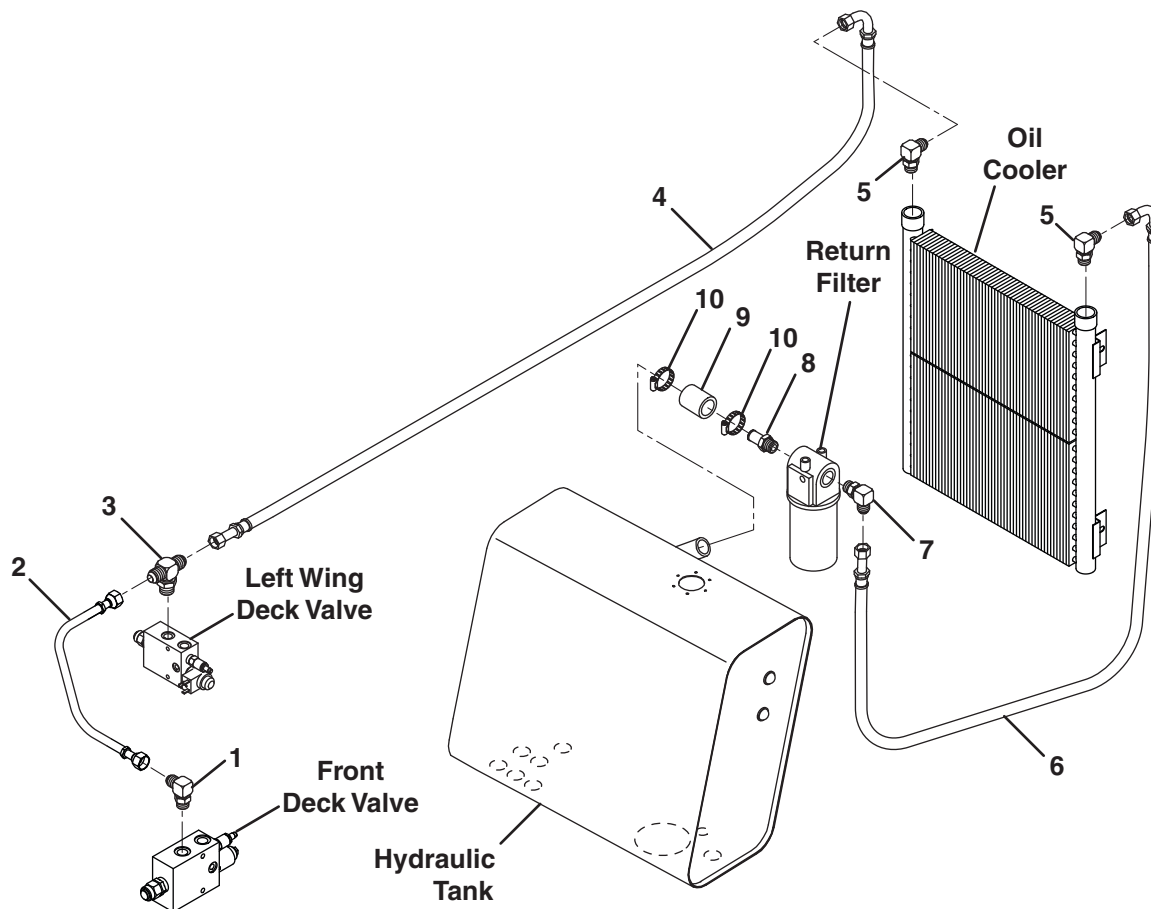


| Item | Part No.  | Qty. | Description                   | Serial Numbers/Notes |
|------|-----------|------|-------------------------------|----------------------|
| 1    | 340055    | 2    | Adapter, 90°                  |                      |
| 2    | 1000700   | 1    | Hose, Left Wheel Motor Drain  | See 27.1             |
| 3    | 1000700   | 1    | Hose, Right Wheel Motor Drain | See 27.1             |
| 4    | 359186    | 3    | Adapter, Tee                  |                      |
| 5    | 1003138   | 1    | Hose, Right Wing Deck Drain   | See 39.1             |
| 6    | 1003138   | 1    | Hose, Left Wing Deck Drain    | See 38.1             |
| 7    | 360566    | 1    | Adapter, Bulkhead Tee         |                      |
| 8    | 339960    | 1    | • Nut, Bulkhead               |                      |
| 9    | 4192360   | 1    | Front Deck Motor Drain Hose   | See 37.1             |
| 10   | 132561    | 1    | Hose, Tee to Tank             |                      |
| 11   | 365966    | 1    | Valve, Check                  |                      |
| 12   | 324943    | 1    | Nipple, Pipe                  |                      |
| 13   | 3001523.7 | 1    | Plate, Bulkhead               | See 26.1             |

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## 35.1 Oil Cooler Hydraulics

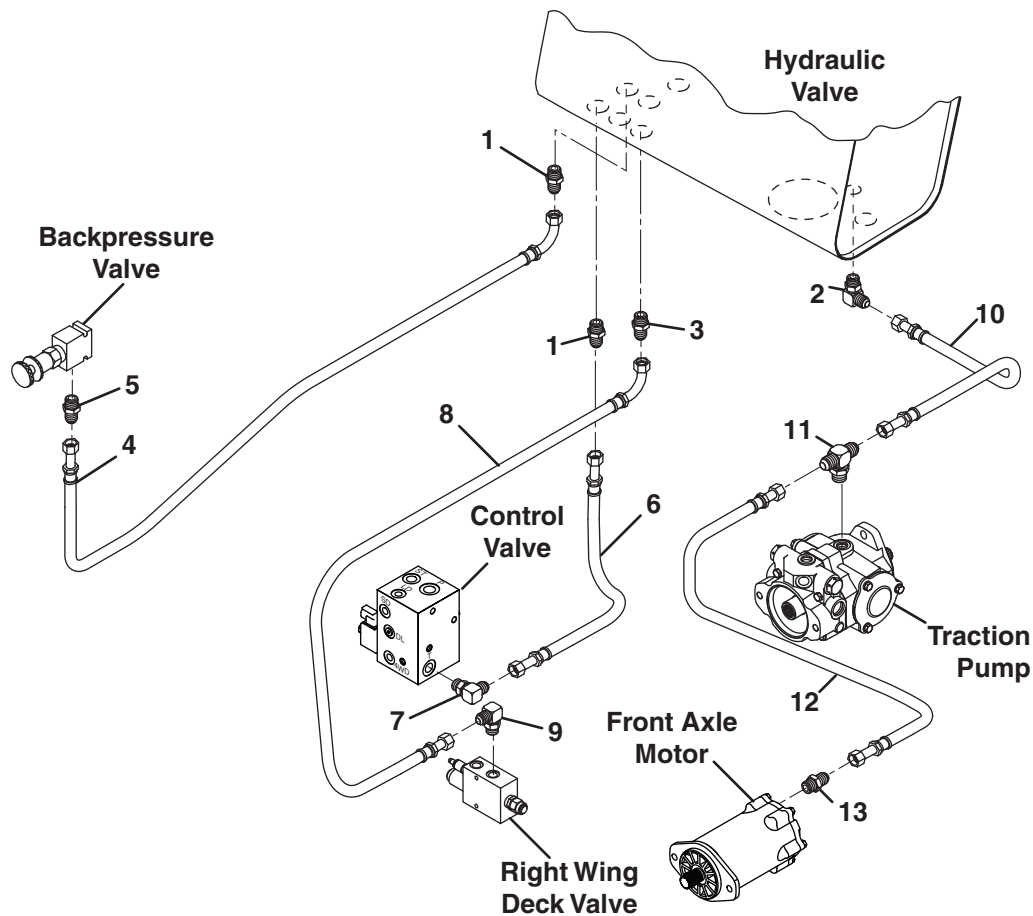


| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes |
|------|----------|------|-------------------------------------|----------------------|
| 1    | 340070   | 1    | Adapter, 90°                        |                      |
| 2    | 4192440  | 1    | Hose, Front to Left Wing Deck Valve |                      |
| 3    | 2720559  | 1    | Adapter, Tee                        |                      |
| 4    | 132441   | 1    | Hose, Left Valve to Oil Cooler      |                      |
| 5    | 340077   | 2    | Adapter, 90°                        |                      |
| 6    | 1003705  | 1    | Hose, Oil Cooler to Return Filter   |                      |
| 7    | 340089   | 1    | Adapter, 90°                        |                      |
| 8    | 163917   | 1    | Adapter, Beaded                     |                      |
| 9    | 4148897  | 1    | Hose, Return Filter to Tank         |                      |
| 10   | 326112   | 2    | Clamp, Hose                         |                      |

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## 36.1 Return Hydraulics

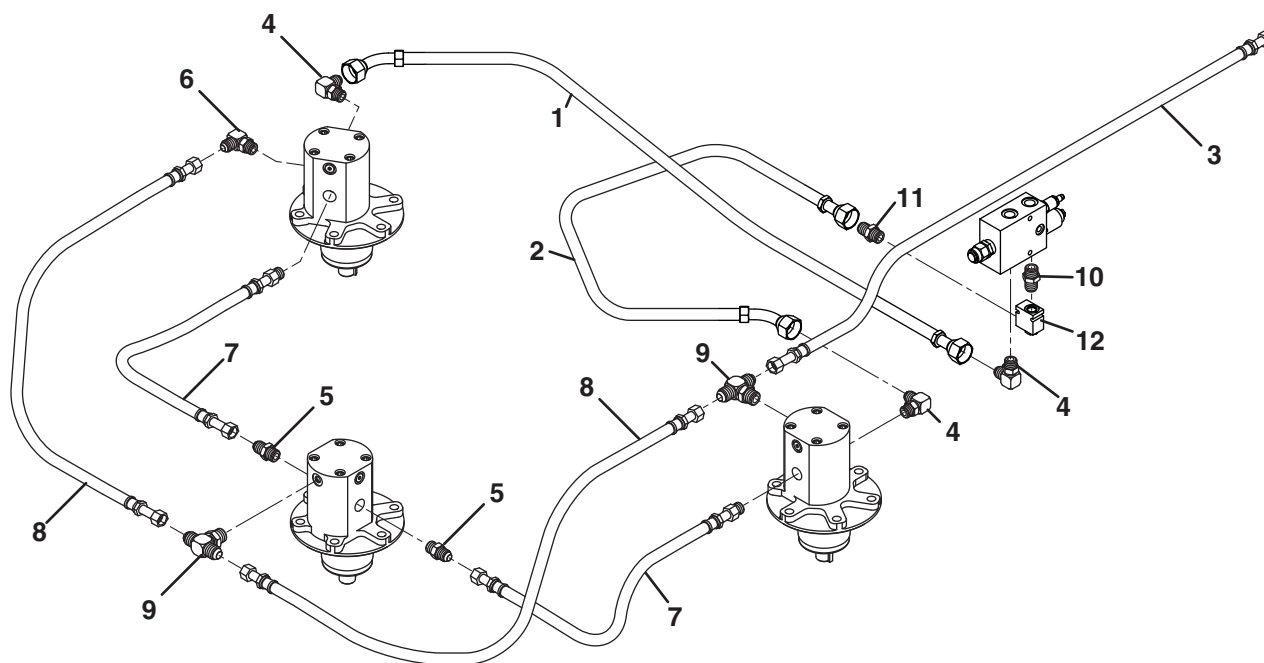
Serial No. All



| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes |
|------|----------|------|-----------------------------------|----------------------|
| 1    | 351124   | 2    | Adapter, Straight                 |                      |
| 2    | 358949   | 1    | Adapter, 90°                      |                      |
| 3    | 357613   | 1    | Adapter, Straight                 |                      |
| 4    | 4188620  | 1    | Hose, Backpressure Valve to Tank  |                      |
| 5    | 351108   | 1    | Adapter, Straight                 |                      |
| 6    | 132579   | 1    | Hose, Control Valve to Tank       |                      |
| 7    | 340066   | 1    | Adapter, 90°                      |                      |
| 8    | 132580   | 1    | Hose, Right Deck Valve to Tank    |                      |
| 9    | 354065   | 1    | Adapter, 90°                      |                      |
| 10   | 4173221  | 1    | Hose, Traction Pump to Tank       |                      |
| 11   | 4173200  | 1    | Adapter, Tee                      |                      |
| 12   | 4173220  | 1    | Hose, Axle Motor to Traction Pump |                      |
| 13   | 351109   | 1    | Adapter, Straight                 |                      |

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## 37.1 Front Deck Hydraulics

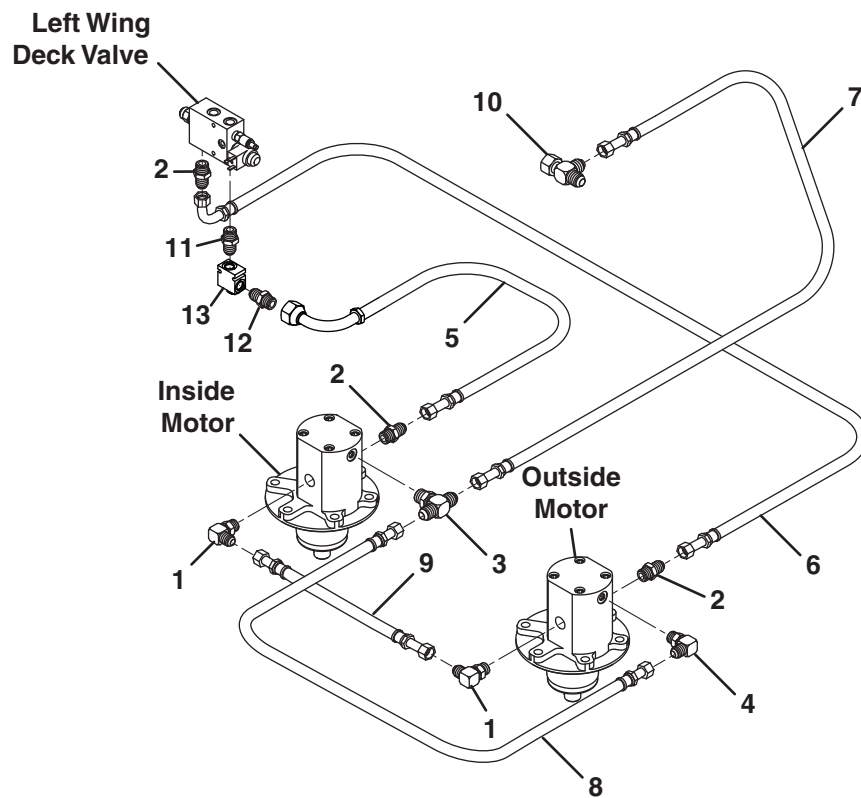


| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes    |
|------|----------|------|-------------------------------------|-------------------------|
| 1    | 1003584  | 1    | Hose, Motor to Front Valve          | Front Deck Valve Port B |
|      | 4192362  | 1    | Front Deck Hose Assembly            |                         |
| 2    | 1003584  | 1    | • Hose, Front Valve to Motor        | Front Deck Valve Port A |
| 3    | 4192360  | 1    | • Hose, Front Deck to Bulkhead      |                         |
| 4    | 340070   | 4    | Adapter, 90°                        |                         |
| 5    | 339989   | 2    | Adapter, Straight                   |                         |
| 6    | 362288   | 1    | Adapter, 90°                        |                         |
|      | 132591   | 2    | Motor Hose Assembly                 |                         |
| 7    | 132562   | 1    | • Hose, Motor Outlet to Motor Inlet |                         |
| 8    | 132563   | 1    | • Hose, Motor Drain                 |                         |
| 9    | 366445   | 2    | Adapter, Tee                        |                         |
| 10   | 4202340  | 1    | Adapter, 10-8 Reducer Union         |                         |
| 11   | 339988   | 1    | Adapter, Straight                   |                         |
| 12   | 4202120  | 1    | Check Valve                         |                         |
|      | 4201921  | 1    | • Body, Check Valve                 |                         |
|      | 4201920  | 1    | • Cartridge, Check Valve            |                         |

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## 38.1 Left Wing Deck Hydraulics

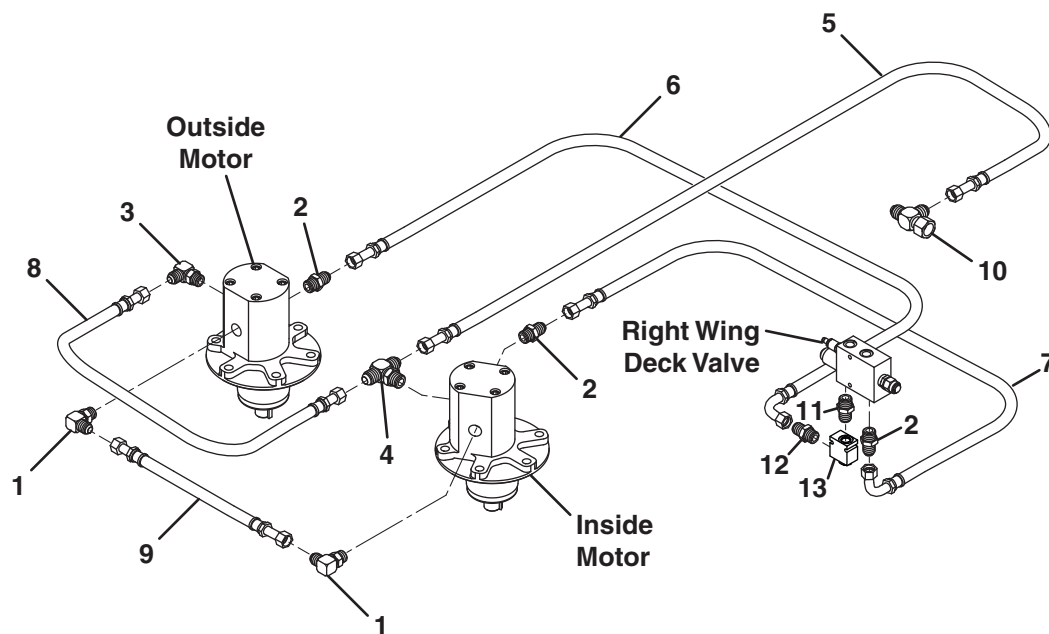
Serial No. All



| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes                                                       |
|------|----------|------|-------------------------------------|----------------------------------------------------------------------------|
| 1    | 340070   | 2    | Adapter, 90°                        | Left Wing Deck Valve Port A<br>Left Wing Deck Valve Port B<br><br>See 33.1 |
| 2    | 339989   | 4    | Adapter, Straight                   |                                                                            |
| 3    | 366445   | 1    | Adapter, Tee                        |                                                                            |
| 4    | 362288   | 1    | Adapter, 90°                        |                                                                            |
|      | 1003134  | 1    | Left Wing Deck Hose Assembly        |                                                                            |
| 5    | 132575   | 1    | • Hose, Left Valve to Motor         |                                                                            |
| 6    | 132576   | 1    | • Hose, Motor to Left Valve         |                                                                            |
| 7    | 1003138  | 1    | • Hose, Left Deck Drain             |                                                                            |
|      | 132594   | 1    | Motor Hose Assembly                 |                                                                            |
| 8    | 132595   | 1    | • Hose, Motor Drain                 |                                                                            |
| 9    | 132596   | 2    | • Hose, Motor Outlet to Motor Inlet |                                                                            |
| 10   | 359186   | 1    | Adapter, Tee                        |                                                                            |
| 11   | 4202340  | 1    | Adapter, 10-8 Reducer Union         |                                                                            |
| 12   | 339988   | 1    | Adapter, Straight                   |                                                                            |
| 13   | 4202120  | 1    | Check Valve                         |                                                                            |
|      | 4201921  | 1    | • Body, Check Valve                 |                                                                            |
|      | 4201920  | 1    | • Cartridge, Check Valve            |                                                                            |

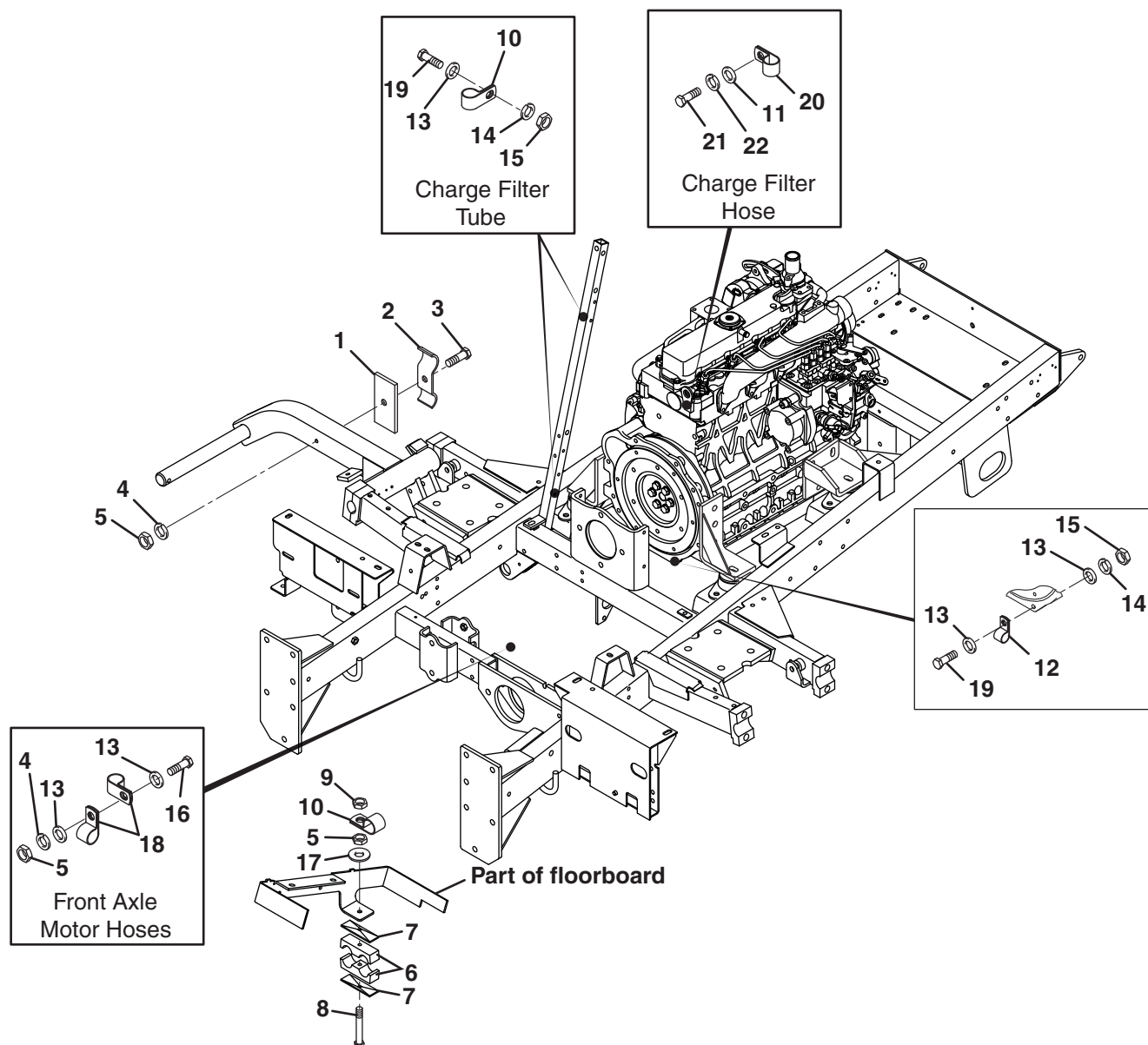
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## 39.1 Right Wing Deck Hydraulics



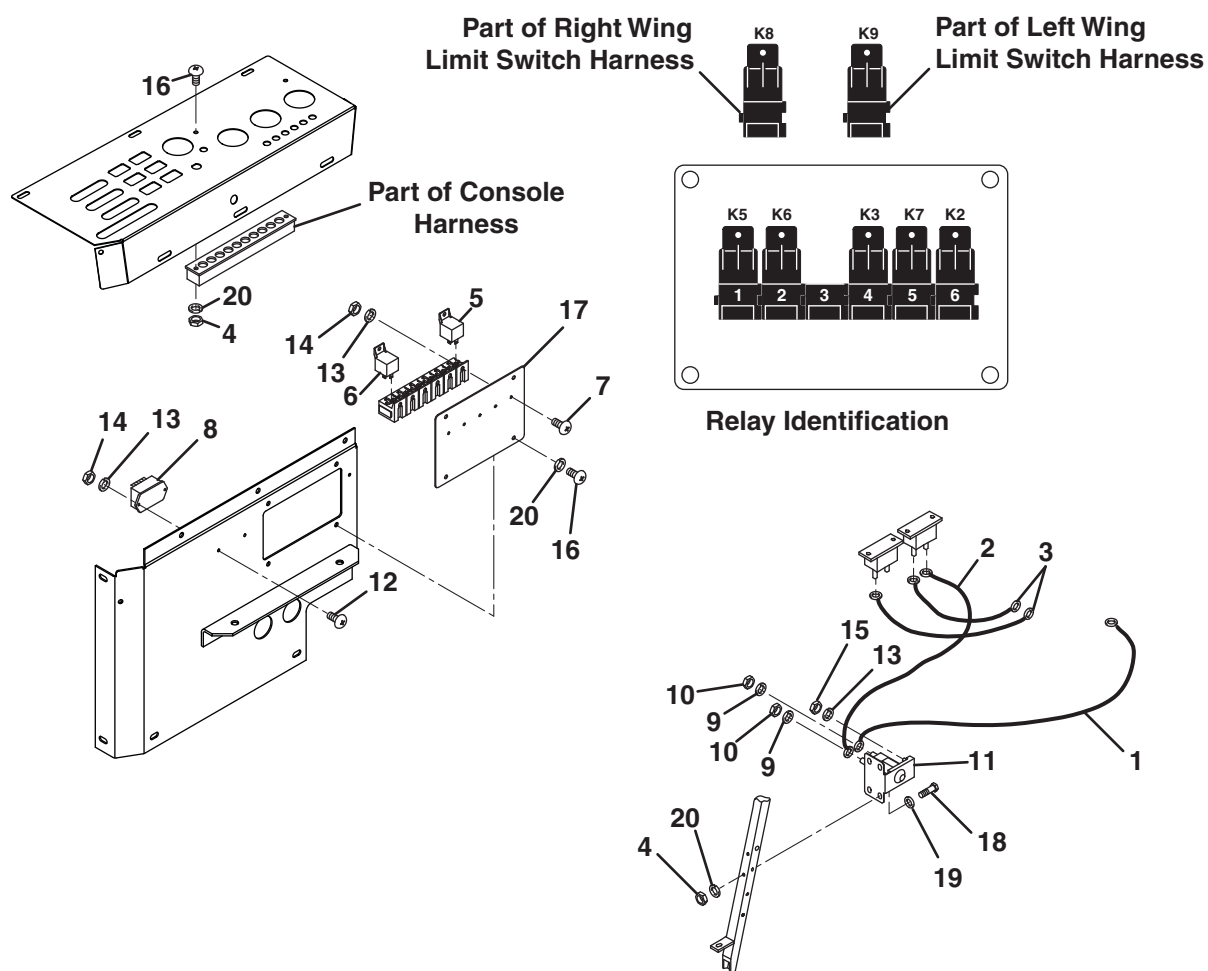
| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes                                                         |
|------|----------|------|-------------------------------------|------------------------------------------------------------------------------|
| 1    | 340070   | 2    | Adapter, 90°                        | Right Wing Deck Valve Port A<br>Right Wing Deck Valve Port B<br><br>See 33.1 |
| 2    | 339989   | 4    | Adapter, Straight                   |                                                                              |
| 3    | 362288   | 1    | Adapter, 90°                        |                                                                              |
| 4    | 366445   | 1    | Adapter, Tee                        |                                                                              |
|      | 1003133  | 1    | Right Wing Deck Hose Assembly       |                                                                              |
| 5    | 1003138  | 1    | • Hose, Right Wing Deck Drain       |                                                                              |
| 6    | 1003137  | 1    | • Hose, Right Valve to Motor        |                                                                              |
| 7    | 1003136  | 1    | • Hose, Motor to Right Valve        |                                                                              |
|      | 132594   | 1    | Motor Hose Assembly                 |                                                                              |
| 8    | 132596   | 1    | • Hose, Motor Drain                 |                                                                              |
| 9    | 132595   | 1    | • Hose, Motor Outlet to Motor Inlet |                                                                              |
| 10   | 359186   | 1    | Adapter, Tee                        |                                                                              |
| 11   | 4202340  | 1    | Adapter, 10-8 Reducer Union         |                                                                              |
| 12   | 339988   | 1    | Adapter, Straight                   |                                                                              |
| 13   | 4202120  | 1    | Check Valve                         |                                                                              |
|      | 4201921  | 1    | • Body, Check Valve                 |                                                                              |
|      | 4201920  | 1    | • Cartridge, Check Valve            |                                                                              |

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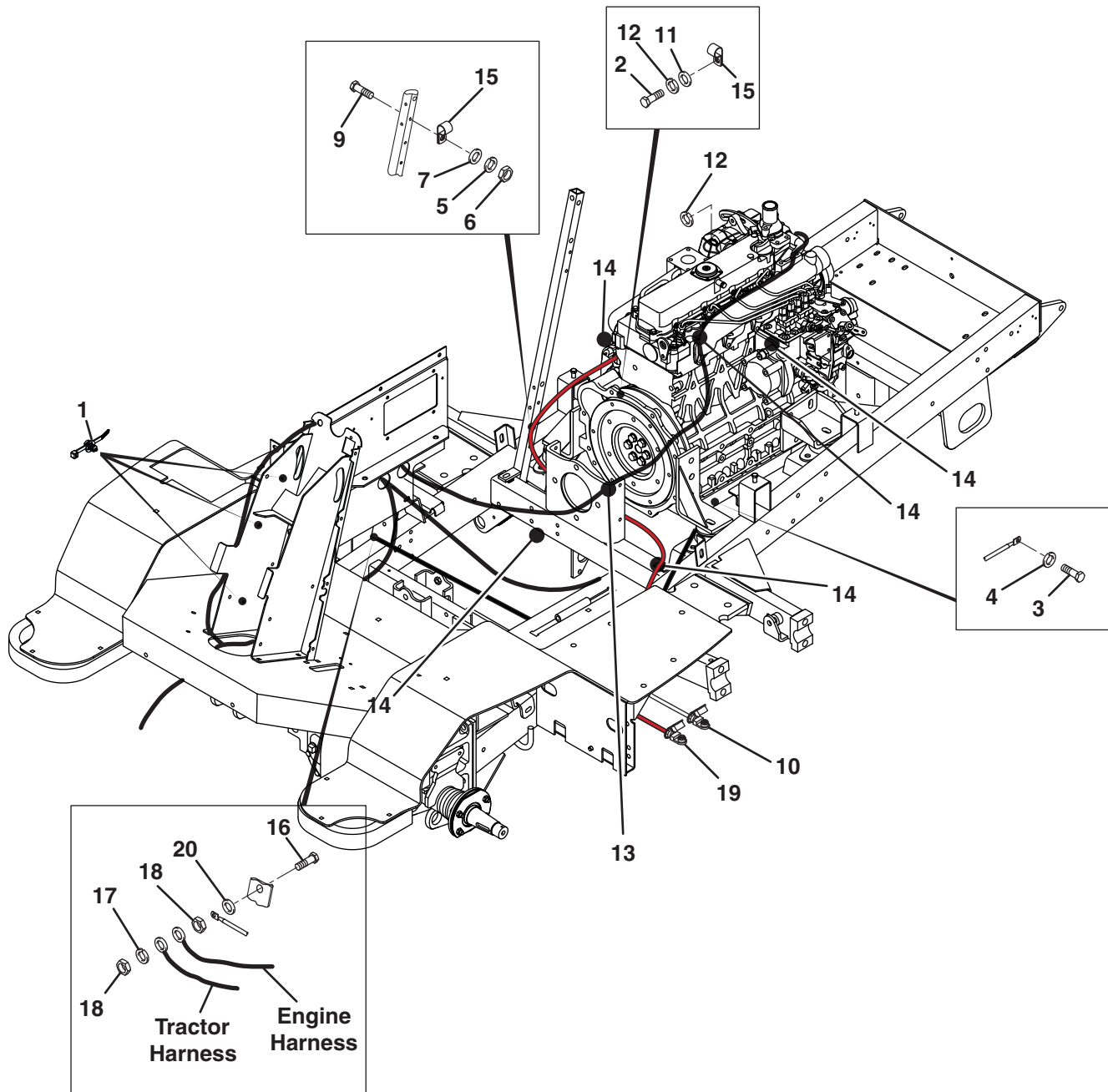
| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes                                                                                                                                                                                                      |
|------|----------|------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 366607.7 | 2    | Spacer, Hose                      | Front Deck Motor Hoses                                                                                                                                                                                                    |
| 2    | 359860   | 2    | Clamp, 2 Hose                     |                                                                                                                                                                                                                           |
| 3    | 400204   | 2    | Screw, 5/16-18 x 3-1/2"           |                                                                                                                                                                                                                           |
| 4    | 446136   | 2    | Lockwasher, 5/16 Heavy            |                                                                                                                                                                                                                           |
| 5    | 443106   | 2    | Nut, 5/16-18 Hex                  |                                                                                                                                                                                                                           |
| 6    | 3008793  | 2    | Clamp, Hose                       |                                                                                                                                                                                                                           |
| 7    | 3008792  | 2    | Spacer, Plate                     |                                                                                                                                                                                                                           |
| 8    | 400210   | 1    | Screw, 5/16-18 x 5" Hex Head      | Included with Engine                                                                                                                                                                                                      |
| 9    | 444718   | 1    | Locknut, 5/16-18 Center           |                                                                                                                                                                                                                           |
| 10   | 345666   | 2    | Clamp, Hose                       |                                                                                                                                                                                                                           |
| 11   | 550380   | 1    | Washer, Plain                     |                                                                                                                                                                                                                           |
| 12   | 361064   | 1    | Clamp                             |                                                                                                                                                                                                                           |
| 13   | 452004   | 5    | Flat Washer, 1/4                  |                                                                                                                                                                                                                           |
| 14   | 446130   | 3    | Lockwasher, 1/4 Heavy             |                                                                                                                                                                                                                           |
| 15   | 443102   | 3    | Nut, 1/4-20 Hex                   |                                                                                                                                                                                                                           |
| 16   | 400188   | 1    | Screw, 5/16-18 x 1" Hex Head      |                                                                                                                                                                                                                           |
| 17   | 452006   | 1    | Flat Washer, 5/16                 |                                                                                                                                                                                                                           |
| 18   | 364190   | 3    | Clamp                             | Included with Engine                                                                                                                                                                                                      |
| 19   | 400116   | 3    | Screw, 1/4-20 x 1-1/2" Hex Head   |                                                                                                                                                                                                                           |
| 20   | 354080   | 1    | Clamp, Hose                       | Included with Engine                                                                                                                                                                                                      |
| 21   | 550376   | 1    | Bolt                              |                                                                                                                                                                                                                           |
| 22   | 550409   | 1    | Washer, Spring                    | Front Cylinder Return Hose (1)<br>Deck Valve Hose to Tube (1)<br>Steering Hoses to Console Support<br>Front Lift Cylinder Hoses (2)<br>Front Deck Motor Hoses (1)<br>Control Valve Hoses (1)<br>Wing Deck Motor Hoses (1) |
|      | 473142   | 2    | Cable Tie                         |                                                                                                                                                                                                                           |
|      | 473144   | 1    | Cable Tie, 5/16 x 16" (Not Shown) |                                                                                                                                                                                                                           |
|      | 473137   | 5    | Cable Tie, 5/16 x 9" (Not Shown)  |                                                                                                                                                                                                                           |

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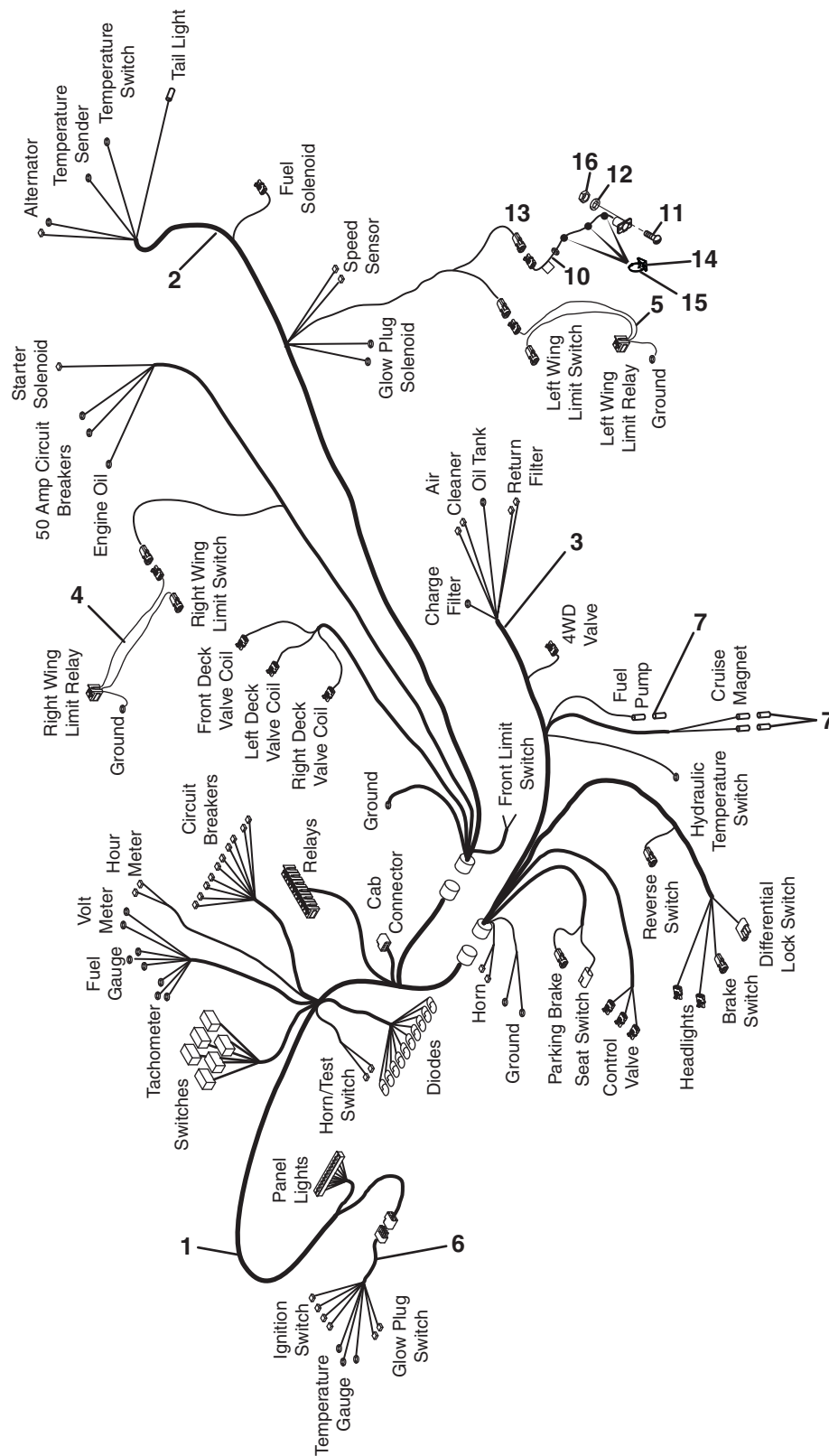
| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes                                                 |
|------|----------|------|-----------------------------------|----------------------------------------------------------------------|
| 1    | 365962   | 1    | Wire, Solenoid to Glow Plug       | REFERENCE K5, See 61.1<br>REFERENCE K2, K3, K6, K7, K8, K9, See 61.1 |
| 2    | 163918   | 1    | Wire, Circuit Breaker to Solenoid |                                                                      |
| 3    | 365711   | 2    | Wire, Starter to Circuit Breaker  |                                                                      |
| 4    | 443102   | 4    | Nut, 1/4-20 Hex                   |                                                                      |
| 5    | 4193880  | 1    | Relay SPDT                        |                                                                      |
| 6    | 365963   | 6    | Relay, SPST                       |                                                                      |
| 7    | 403908   | 2    | Screw, #10-24 x 3/8" Truss Head   | REFERENCE K4, See 61.1                                               |
| 8    | 3003036  | 1    | Relay, Seat Time Delay            |                                                                      |
| 9    | 446136   | 2    | Lockwasher, 5/16 Heavy            |                                                                      |
| 10   | 443808   | 2    | Nut, 5/16-24 Hex Jam              | REFERENCE K1, See 61.1                                               |
| 11   | 131905   | 1    | Solenoid, Glow Plug               |                                                                      |
| 12   | 403910   | 2    | Screw, #10-24 x 1/2" Truss Head   |                                                                      |
| 13   | 446118   | 4    | Lockwasher, #10                   |                                                                      |
| 14   | 444310   | 2    | Nut, #10-24 Hex                   |                                                                      |
| 15   | 444312   | 2    | Nut, #10-32 Hex                   |                                                                      |
| 16   | 403759   | 6    | Screw, 1/4-20 x 5/8" Truss Head   |                                                                      |
| 17   | 366308.6 | 1    | Plate                             |                                                                      |
| 18   | 400118   | 2    | Screw, 1/4-20 x 1-3/4" Hex Head   |                                                                      |
| 19   | 453023   | 2    | Flat Washer, 1/4                  |                                                                      |
| 20   | 446130   | 8    | Lockwasher, 1/4 Heavy             |                                                                      |

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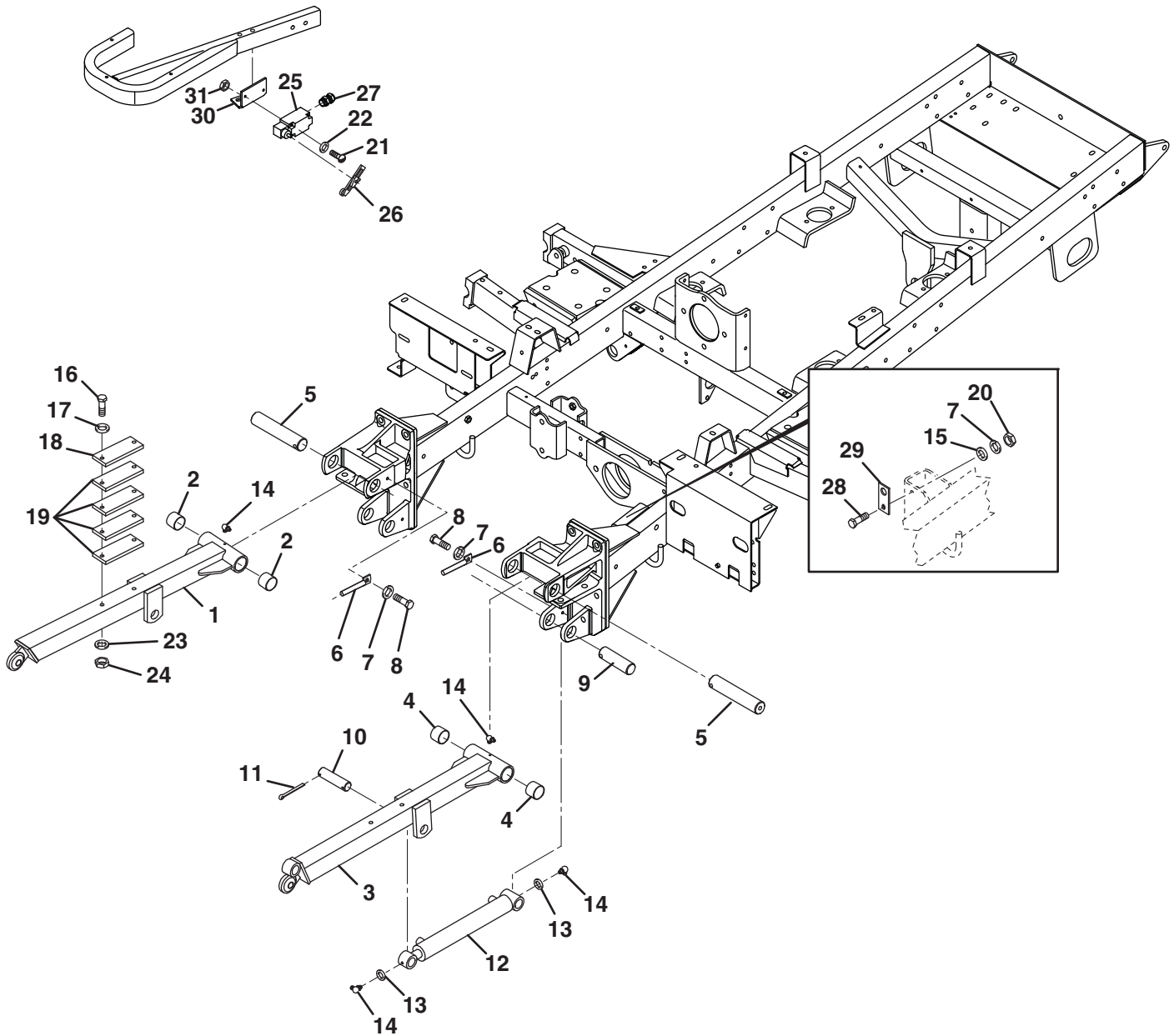
| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes |
|------|----------|------|----------------------------------|----------------------|
| 1    | 4167640  | 3    | Cable Tie, Fir Tree              |                      |
| 2    | 362263   | 1    | Screw, M10-1.25 x 25 mm          |                      |
| 3    | 365980   | 1    | Screw, M12-1.25 x 20 mm          |                      |
| 4    | 446154   | 1    | Lockwasher, 1/2 Heavy            |                      |
| 5    | 446130   | 1    | Lockwasher, 1/4 Heavy            |                      |
| 6    | 443102   | 1    | Nut, 1/4-20 Hex                  |                      |
| 7    | 453023   | 1    | Flat Washer, 1/4                 |                      |
| 8    | 361064   | 1    | Clamp                            |                      |
| 9    | 400120   | 1    | Screw, 1/4-20 x 2"               |                      |
| 10   | 2720726  | 1    | Negative Battery Cable           |                      |
| 11   | 453011   | 1    | Flat Washer, 3/8                 |                      |
| 12   | 446148   | 1    | Lockwasher, 7/16                 |                      |
| 13   | 473144   | 2    | Cable Tie                        |                      |
| 14   | 473137   | 4    | Cable Tie                        |                      |
| 15   | 345671   | 2    | Clamp                            |                      |
| 16   | 400190   | 1    | Screw, 5/16-18 x 1-1/4" Hex Head |                      |
| 17   | 446136   | 1    | Lockwasher, 5/16 Heavy           |                      |
| 18   | 443106   | 1    | Nut, 5/16-18 Hex                 |                      |
| 19   | 1002397  | 1    | Positive Battery Cable           |                      |
| 20   | 452006   | 1    | Flat Washer, 5/16                |                      |

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| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes                                                    |
|------|----------|------|----------------------------------|-------------------------------------------------------------------------|
| 1    | 4195440  | 1    | Wire Harness, Console            |                                                                         |
|      | 554492   | 2    | • Lockwasher, Size 24            |                                                                         |
|      | 554493   | 2    | • Panel Nut, Size 24             |                                                                         |
|      | 555845   | 10   | • Light Bulb                     |                                                                         |
|      | 555846   | 10   | • Diode                          |                                                                         |
|      | 555847   | 1    | • Light Strip                    |                                                                         |
| 2    | 4170721  | 1    | Wire Harness, Engine             |                                                                         |
| 3    | 4172662  | 1    | Wire Harness, Mower              |                                                                         |
| 4    | 4155085  | 1    | Wire Harness, Right Wing Limit   |                                                                         |
| 5    | 4155085  | 1    | Wire Harness, Left Wing Limit    |                                                                         |
| 6    | 1001963  | 1    | Wire Harness, Ignition           |                                                                         |
| 7    | 473108   | 3    | Insulated Bullet Connector       |                                                                         |
|      | 554748   | 2    | Tube, Wire Protector (Not Shown) | Cruise Control Magnet Wires<br>Front Lift Arm Limit Switch<br>Not Shown |
| 8    | 473137   | 5    | Tie, Nylon                       | Not Shown                                                               |
| 9    | 473144   | 2    | Tie, Nylon                       | Not Shown                                                               |
| 10   | 4175664  | 1    | Harness, 12V Accessory Plug      | Routed inside Utility Box                                               |
|      | 4131299  | 1    | • Fuse Holder                    |                                                                         |
|      | 836892   | 1    | • Fuse, 10 Amp                   |                                                                         |
|      | N/S      | 1    | • Accessory Plug                 | <b>REFERENCE F1, See 61.1</b><br><b>REFERENCE U3, See 61.1</b>          |
| 11   | 402230   | 2    | Screw, 1/4-20 x 1" Slotted Round |                                                                         |
| 12   | 455066   | 2    | Flat Washer, 1/4                 |                                                                         |
| 13   | 4194660  | 1    | Grommet                          |                                                                         |
| 14   | 4200540  | 3    | Adhesive Mount                   | Inside surface of utility box                                           |
| 15   | 320107   | 3    | Tie Strap                        |                                                                         |
| 16   | 443102   | 2    | Nut, 1/4-20 Hex                  |                                                                         |

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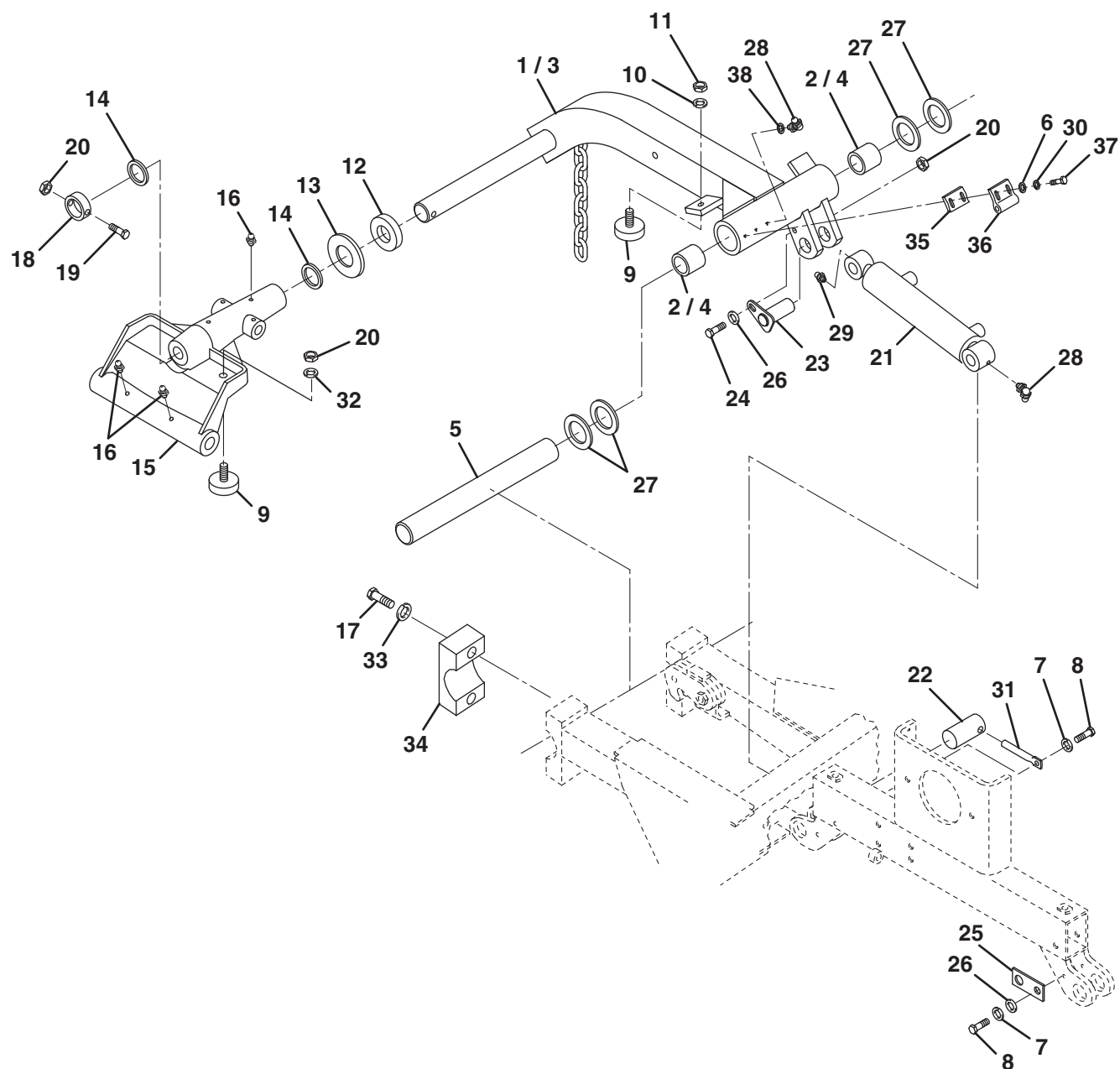


| Item | Part No. | Qty. | Description                          | Serial Numbers/Notes                                                                     |
|------|----------|------|--------------------------------------|------------------------------------------------------------------------------------------|
| 1    | 2720206  | 1    | Right Front Lift Arm                 |                                                                                          |
| 2    | 342033   | 2    | • Bushing                            |                                                                                          |
| 3    | 2720207  | 1    | Left Front Lift Arm                  |                                                                                          |
| 4    | 342033   | 2    | • Bushing                            |                                                                                          |
| 5    | 4184641  | 2    | Shaft, Lift Arm Pivot                |                                                                                          |
| 6    | 346091   | 4    | Pin, Retaining                       |                                                                                          |
| 7    | 446136   | 5    | Lockwasher, 5/16 Heavy               |                                                                                          |
| 8    | 400184   | 4    | Screw, 5/16-18 x 3/4" Hex Head       |                                                                                          |
| 9    | 366045   | 2    | Pin, Lift Cylinder                   |                                                                                          |
| 10   | 359549   | 2    | Pin, Lift Cylinder                   |                                                                                          |
| 11   | 460052   | 4    | Cotter Pin, 3/16 x 1-1/2"            |                                                                                          |
| > 12 | 4203422  | 2    | Front Arm Lift Cylinder              |                                                                                          |
| > 13 | 4137138  | 1    | • Seal Kit                           |                                                                                          |
| 14   | 453023   | 4    | Flat Washer, 1/4                     |                                                                                          |
| 15   | 471221   | 6    | Grease Fitting, 90°                  |                                                                                          |
| 16   | 452006   | 1    | Flat Washer, 5/16                    |                                                                                          |
| 17   | 400280   | 4    | Screw, 3/8-16 x 3-1/2" Hex Head      |                                                                                          |
| 18   | 453011   | 4    | Flat Washer, 3/8                     |                                                                                          |
| 19   | 366473   | 2    | Bumper, Lift Arm                     |                                                                                          |
| 19   | 366610   | AR   | Shim, 0.26" Thick                    | Add or remove shims as required to level front deck. See Adjustment section for details. |
| 19   | 366611   | AR   | Shim, 0.1975" Thick                  |                                                                                          |
| 19   | 366612   | AR   | Shim, 0.135 Thick                    |                                                                                          |
| 19   | 366613   | AR   | Shim, 0.105 Thick                    |                                                                                          |
| 20   | 443106   | 1    | Nut, 5/16-18 Hex                     | REFERENCE SW10, See 61.1                                                                 |
| 21   | 402132   | 2    | Screw, #10-24 x 1-3/4" Slotted       |                                                                                          |
| 22   | 446118   | 2    | Lockwasher, #10 Medium               |                                                                                          |
| 23   | 446142   | 6    | Lockwasher, 3/8 Heavy                |                                                                                          |
| 24   | 443110   | 4    | Nut, 3/8-16 Hex                      |                                                                                          |
| 25   | 3001079  | 1    | Switch, Front Limit                  |                                                                                          |
|      | 5000183  | 1    | • Basic Switch                       |                                                                                          |
|      | 5000184  | 1    | • Operator Head                      |                                                                                          |
| 26   | 3001078  | 1    | Actuator Arm                         |                                                                                          |
| 27   | 364694   | 1    | Connector                            |                                                                                          |
| 28   | 400188   | 1    | Screw, 5/16-18 x 1" Hex Head         |                                                                                          |
| 29   | 366437.7 | 1    | Bracket, Bulkhead                    |                                                                                          |
| 30   | 4198920  | 1    | Bracket, Front Lift Arm Limit Switch |                                                                                          |
| 31   | 444782   | 2    | Locknut, #10-24 Hex Center           |                                                                                          |
|      |          |      |                                      | See 14.1 for mounting                                                                    |

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## 45.1 Wing Lift Arms

Right Wing Shown

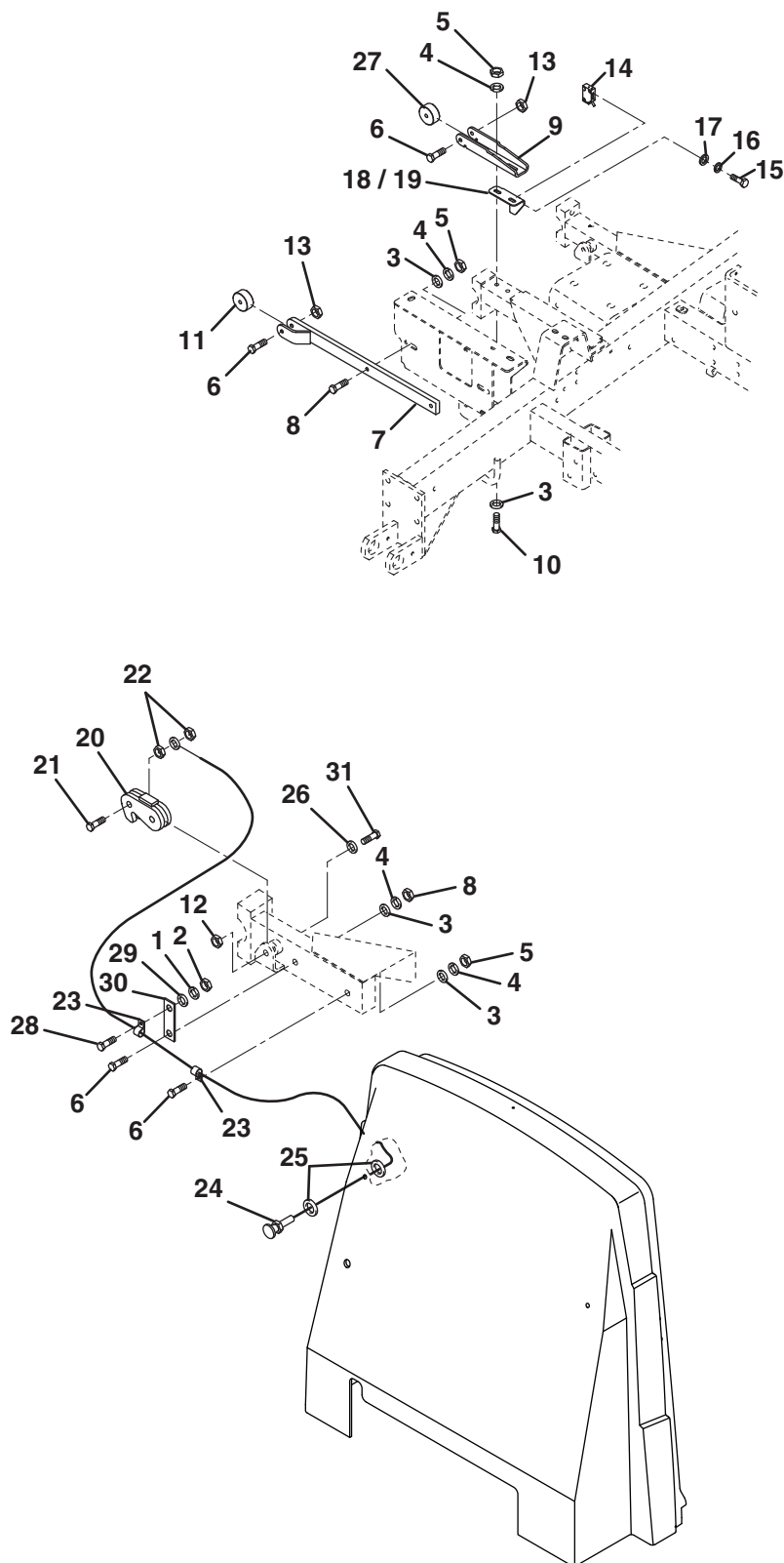


| Item | Part No.  | Qty. | Description                     | Serial Numbers/Notes |
|------|-----------|------|---------------------------------|----------------------|
| 1    | 2720295   | 1    | Right Wing Arm                  |                      |
| 2    | 2720298   | 2    | • Bushing                       |                      |
| 3    | 2720294   | 1    | Left Wing Arm (Not Shown)       |                      |
| 4    | 2720298   | 2    | • Bushing                       |                      |
| 5    | 2248004   | 2    | Shaft, Pivot Arm                |                      |
| 6    | 64251-001 | 4    | Flat Washer, M5                 |                      |
| 7    | 446136    | 3    | Lockwasher, 5/16 Heavy          |                      |
| 8    | 400184    | 3    | Screw, 5/16-18 x 3/4" Hex Head  |                      |
| 9    | 361723    | 6    | Stop, Rubber                    |                      |
| 10   | 446142    | 2    | Lockwasher, 3/8 Heavy           |                      |
| 11   | 443110    | 2    | Nut, 3/8-16 Hex                 |                      |
| 12   | 366506    | 2    | Washer, Thrust                  |                      |
| 13   | 366517    | 12   | Washer, Belleville              |                      |
| 14   | 362824    | 4    | Spacer                          |                      |
| 15   | 503553    | 2    | Casting, Pivot                  |                      |
| 16   | 471216    | 3    | • Grease Fitting, Straight      |                      |
| 17   | 400650    | 8    | Screw, 5/8-18 x 2-1/2" Hex Head |                      |
| 18   | 364248    | 2    | Collar                          |                      |
| 19   | 400272    | 2    | Screw, 3/8-16 x 2-1/4" Hex Head |                      |
| 20   | 444762    | 8    | Locknut, 3/8-16 Center          |                      |
| 21   | 4138515   | 2    | Lift Cylinder                   |                      |
|      | 4138589   | 1    | • Seal Kit                      |                      |
| 22   | 366483    | 2    | Pin, Wing Cylinder              |                      |
| 23   | 4107220   | 2    | Pin, Cylinder                   |                      |
| 24   | 400262    | 2    | Screw, 3/8-16 x 1: Hex Head     |                      |
| 25   | 366437.7  | 1    | Bracket, Bulkhead               |                      |
| 26   | 452006    | 3    | Flat Washer, 5/16               |                      |
| 27   | 364830    | AR   | Washer, Shim                    |                      |
| 28   | 471221    | 4    | Grease Fitting, 90°             |                      |
| 29   | 471214    | 2    | Grease Fitting, Straight        |                      |
| 30   | 446118    | 4    | Lockwasher, #10 Medium          |                      |
| 31   | 346091    | 2    | Pin, Retaining                  |                      |
| 32   | 453011    | 4    | Flat Washer, 3/8                |                      |
| 33   | 446166    | 8    | Lockwasher, 5/8 Heavy           |                      |
| 34   | 2242015   | 4    | Block, Shaft                    |                      |
| 35   | 3007568   | 2    | Shim                            |                      |
| 36   | 4157000   | 2    | Plate, Switch Actuator          |                      |
| 37   | 402118    | 4    | Screw, #10-24 x 1/2" Slotted    |                      |
| 38   | 453023    | 2    | Flat Washer, 1/4                |                      |

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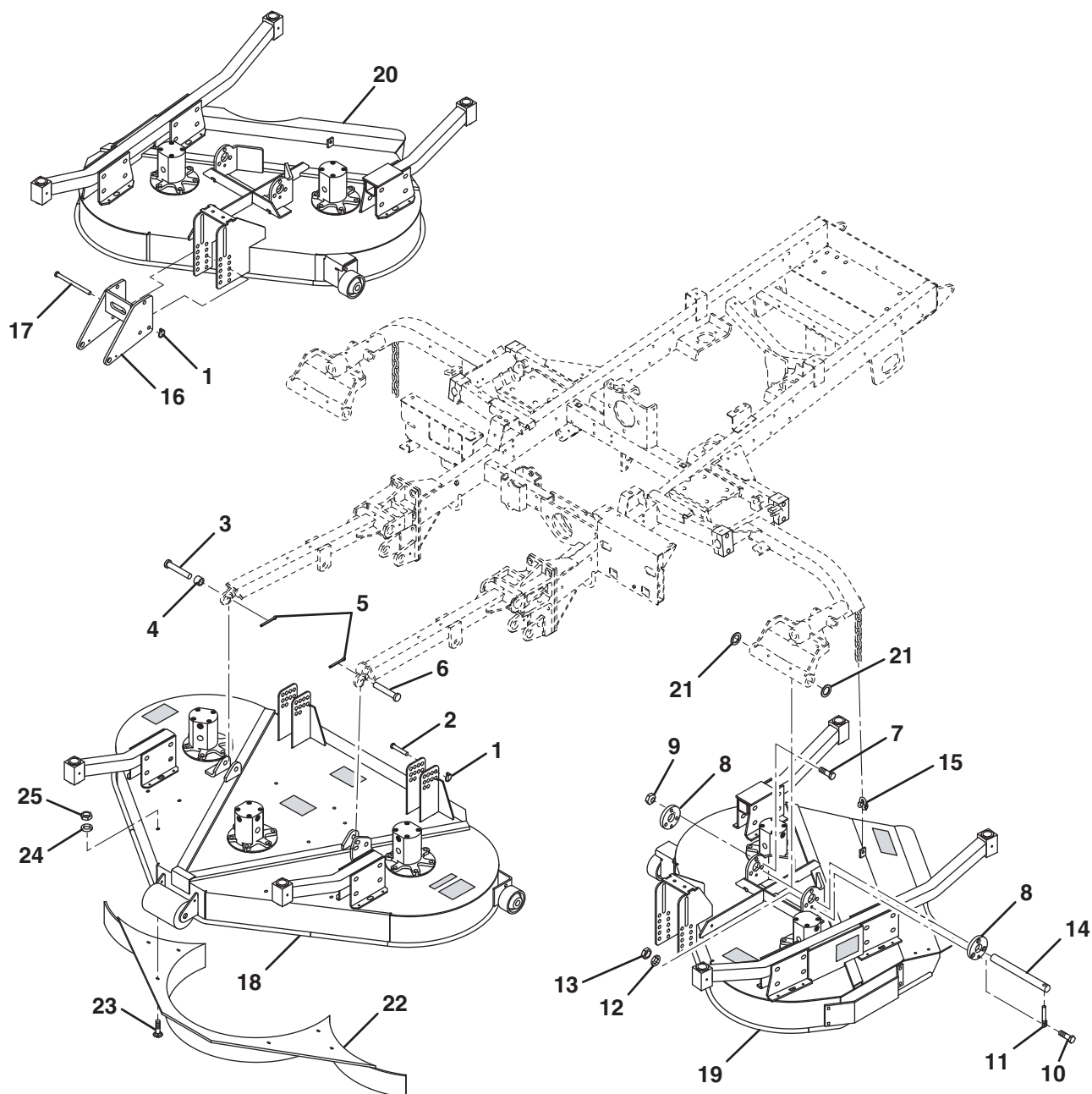
## 46.1 Wing Deck Latch

Serial No. All



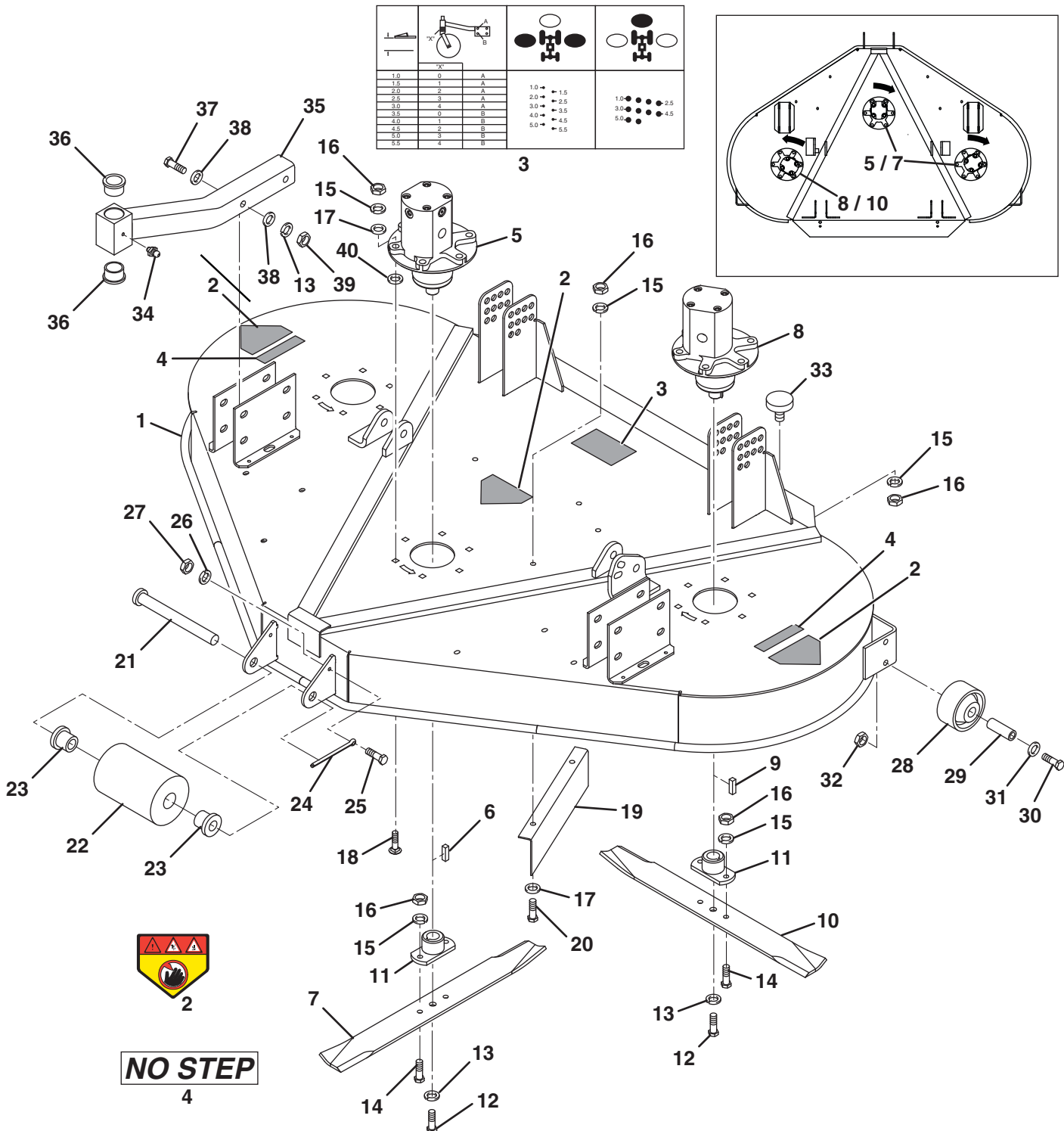
| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes          |
|------|----------|------|---------------------------------|-------------------------------|
| 1    | 446136   | 2    | Lockwasher, 5/16 Heavy          | REFERENCE SW8 & SW9, See 61.1 |
| 2    | 443106   | 2    | Nut, 5/16-18 Hex                |                               |
| 3    | 453011   | 12   | Flat Washer, 3/8                |                               |
| 4    | 446142   | 12   | Lockwasher, 3/8 Heavy           |                               |
| 5    | 445806   | 10   | Nut, 3/8-16 Hex                 |                               |
| 6    | 400272   | 8    | Screw, 3/8-16 x 2-1/4" Hex Head |                               |
| 7    | 132601   | 2    | Bracket, Deck Roller            |                               |
| 8    | 400264   | 4    | Screw, 3/8-16 x 1-1/4" Hex Head |                               |
| 9    | 340525   | 2    | Bracket, Deck Roller            |                               |
| 10   | 400280   | 4    | Screw, 3/8-16 x 4" Hex Head     |                               |
| 11   | 3005677  | 2    | Roller, Front Wing Deck         |                               |
| 12   | 444758   | 2    | Locknut, 1/2-13 Center          |                               |
| 13   | 444762   | 8    | Locknut, 3/8-16 Center          |                               |
| 14   | 4125831  | 2    | Switch, Deck Limit              |                               |
| 15   | 4131768  | 4    | Screw, M3-0.5 x 8 mm Phillips   |                               |
| 16   | 446102   | 4    | Lockwasher, #4                  |                               |
| 17   | 308404   | 4    | Flat Washer, #4                 |                               |
| 18   | 4155082  | 1    | Bracket, Right Side Switch      |                               |
| 19   | 4155081  | 1    | Bracket, Left Side Switch       |                               |
| 20   | 4206820  | 2    | Hook, Deck Latch                |                               |
| 21   | 400120   | 2    | Screw, 1/4-20 x 2" Hex Head     |                               |
| 22   | 444708   | 4    | Locknut, 1/4-20 Center          |                               |
| 23   | 324887   | 4    | Clip, Deck Latch Cable          |                               |
| 24   | 366566   | 2    | Cable, Deck Latch               |                               |
| 25   | 452008   | 4    | Flat Washer, 3/8                |                               |
| 26   | 453017   | 2    | Flat Washer, 1/2                |                               |
| 27   | 3005678  | 2    | Rear Wing Deck Roller           |                               |
| 28   | 400184   | 2    | Screw, 5/16-18 x 3/4" Hex Head  |                               |
| 29   | 452006   | 2    | Flat Washer, 5/16               |                               |
| 30   | 366929   | 2    | Plate, Clip Mounting            |                               |
| 31   | 400422   | 2    | Screw, 1/2-13 x 4" Hex Head     |                               |

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| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes |
|------|----------|------|----------------------------------|----------------------|
| 1    | 64173-02 | 6    | Pin, Snap Ring                   |                      |
| 2    | 3000439  | 2    | Clevis Pin, 1/2 x 3-3/4"         |                      |
| 3    | 3000487  | 1    | Clevis Pin, 5/8 x 3"             |                      |
| 4    | 346913   | 2    | Spacer                           |                      |
| 5    | 460050   | 2    | Cotter Pin, 3/16 x 1-1/4"        |                      |
| 6    | 3006300  | 1    | Clevis Pin, 5/8 x 3-5/16"        |                      |
| 7    | 362464   | 12   | Wheel Bolt, 7/16-20              |                      |
| 8    | 340433   | 4    | Ring Shaft                       |                      |
| 9    | 346294   | 12   | Nut, 7/16-20 Wheel Lug           |                      |
| 10   | 400192   | 2    | Screw, 5/16-18 x 1-1/2" Hex Head |                      |
| 11   | 366520   | 2    | Retainer Pin                     |                      |
| 12   | 446136   | 2    | Lockwasher, 5/16 Heavy           |                      |
| 13   | 443106   | 2    | Nut, 5/16-18 Hex                 |                      |
| 14   | 366484   | 2    | Shaft, Pivot                     |                      |
| 15   | 162716   | 2    | Shackle                          |                      |
| 16   | 132600   | 2    | Caster Support                   |                      |
| 17   | 163995   | 4    | Pin                              |                      |
| 18   | REF      | 1    | Front Deck Assembly              | See 48.1             |
| 19   | REF      | 1    | Left Wing Deck Assembly          | See 49.1             |
| 20   | REF      | 1    | Right Wing Deck Assembly         | See 49.1             |
| 21   | 367601   | 4    | Washer, Thrust                   |                      |
| 22   | 2246003  | 1    | Baffle                           |                      |
| 23   | 441602   | 6    | Carriage Bolt, 5/16-18 x 3/4"    |                      |
| 24   | 452006   | 6    | Flat Washer, 5/16                |                      |
| 25   | 445802   | 6    | Nut, 5/16-18 Flex Lock           |                      |

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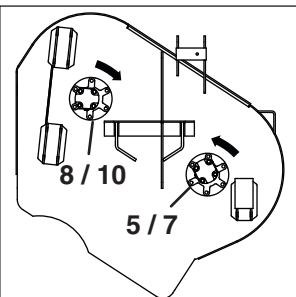
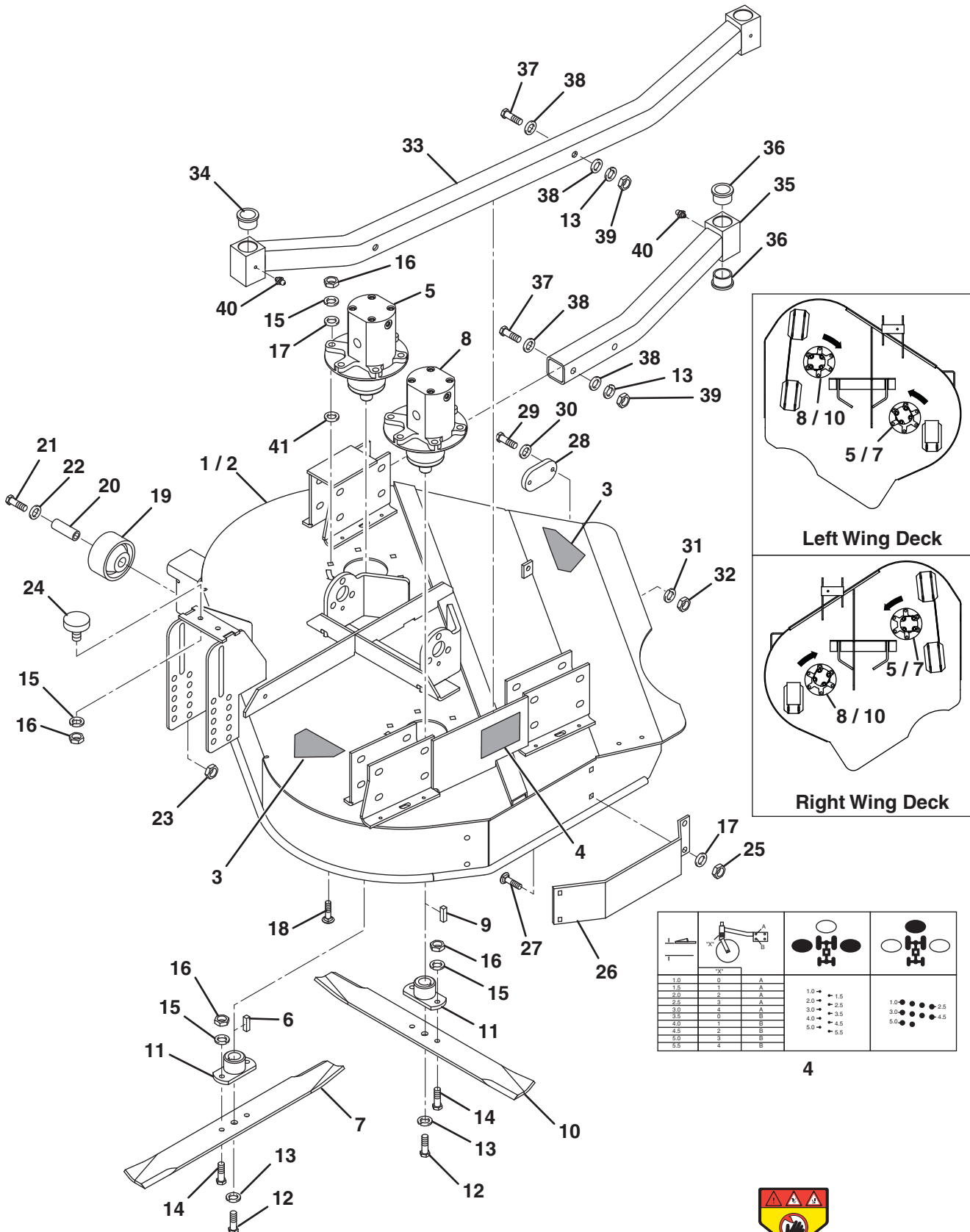


| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes       |
|------|----------|------|----------------------------------|----------------------------|
| 1    | 4194000  | 1    | Front Deck                       | Counter-Clockwise Rotation |
| 2    | 4164381  | 3    | • Decal, Blade Contact Danger    |                            |
| 3    | 3002676  | 1    | • Decal, Cutting Height          |                            |
| 4    | 366609   | 2    | • Decal, No Step                 |                            |
| 5    | 2721180  | 2    | Motor, Deck                      |                            |
| 6    | 557523   | 1    | • Key                            |                            |
| 7    | 4186581  | 2    | Blade, Couter-Clockwise Rotation |                            |
| 8    | 2721181  | 1    | Motor, Deck                      |                            |
| 9    | 557523   | 1    | • Key                            |                            |
| 10   | 4186582  | 1    | Blade, Clockwise Rotation        |                            |
| 11   | 1001885  | 3    | Adapter, Blade                   | Clockwise Rotation         |
| 12   | 400410   | 3    | Screw, 1/2-13 x 1-3/4" Hex Head  |                            |
| 13   | 446154   | 7    | Lockwasher, 1/2 Heavy            |                            |
| 14   | 400264   | 6    | Screw, 3/8-16 x 1-1/4" Hex Head  |                            |
| 15   | 446142   | 28   | Lockwasher, 3/8 Heavy            |                            |
| 16   | 443110   | 28   | Nut, 3/8-16 Hex                  |                            |
| 17   | 453011   | 20   | Flat Washer, 3/8                 |                            |
| 18   | 440124   | 18   | Carriage Bolt, 3/8-16 x 1-3/4"   |                            |
| 19   | 367461   | 1    | Plate, Deck Baffle               |                            |
| 20   | 400262   | 2    | Screw, 3/8-16 x 1" Hex Head      |                            |
| 21   | 3002737  | 1    | Shaft, Roller                    |                            |
| 22   | 163425   | 1    | Roller                           |                            |
| 23   | 552824   | 2    | • Bushing                        |                            |
| 24   | 460076   | 1    | Cotter Pin, 1/4 x 3-1/2"         |                            |
| 25   | 400108   | 1    | Screw, 1/4-20 x 3/4" Hex Head    |                            |
| 26   | 446130   | 1    | Lockwasher, 1/4 Heavy            |                            |
| 27   | 443102   | 1    | Nut, 1/4-20 Hex                  |                            |
| 28   | 366562   | 2    | Wheel, Deck                      |                            |
| 29   | 367140   | 2    | Spacer, Wheel                    |                            |
| 30   | 400348   | 2    | Screw, 7/16-14 x 3" Hex Head     |                            |
| 31   | 453013   | 2    | Flat Washer, 7/16                |                            |
| 32   | 444753   | 2    | Locknut, 7/16-14 Center          |                            |
| 33   | 361723   | 2    | Stop, Rubber                     |                            |
| 34   | 471214   | 2    | Grease Fitting, Straight         |                            |
| 35   | 2720171  | 2    | Caster Arm                       |                            |
| 36   | 363539   | 2    | • Bushing, Caster                |                            |
| 37   | 400420   | 4    | Screw, 1/2-13 x 3-1/2" Hex Head  |                            |
| 38   | 453017   | 4    | Flat Washer, 1/2                 |                            |
| 39   | 443118   | 4    | Nut, 1/2-13 Hex                  |                            |
| 40   | 4167200  | AR   | Shim, 10 GA Motor                |                            |

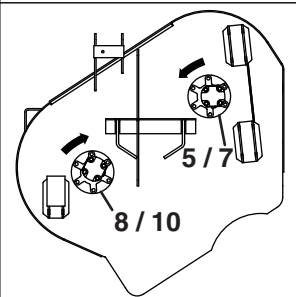
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## 49.1 Wing Deck

Left Wing Deck Shown (Right Opposite)



Left Wing Deck



Right Wing Deck

| Wing Deck | Wing Deck | Wing Deck | Wing Deck |
|-----------|-----------|-----------|-----------|
| 1.0       | 0         | A         | 1.0       |
| 1.5       | 1         | A         | 1.5       |
| 2.0       | 2         | A         | 2.0       |
| 2.5       | 3         | A         | 2.5       |
| 3.0       | 4         | A         | 3.0       |
| 3.5       | 5         | B         | 3.5       |
| 4.0       | 6         | B         | 4.0       |
| 4.5       | 7         | B         | 4.5       |
| 5.0       | 8         | B         | 5.0       |
| 5.5       | 9         | B         | 5.5       |

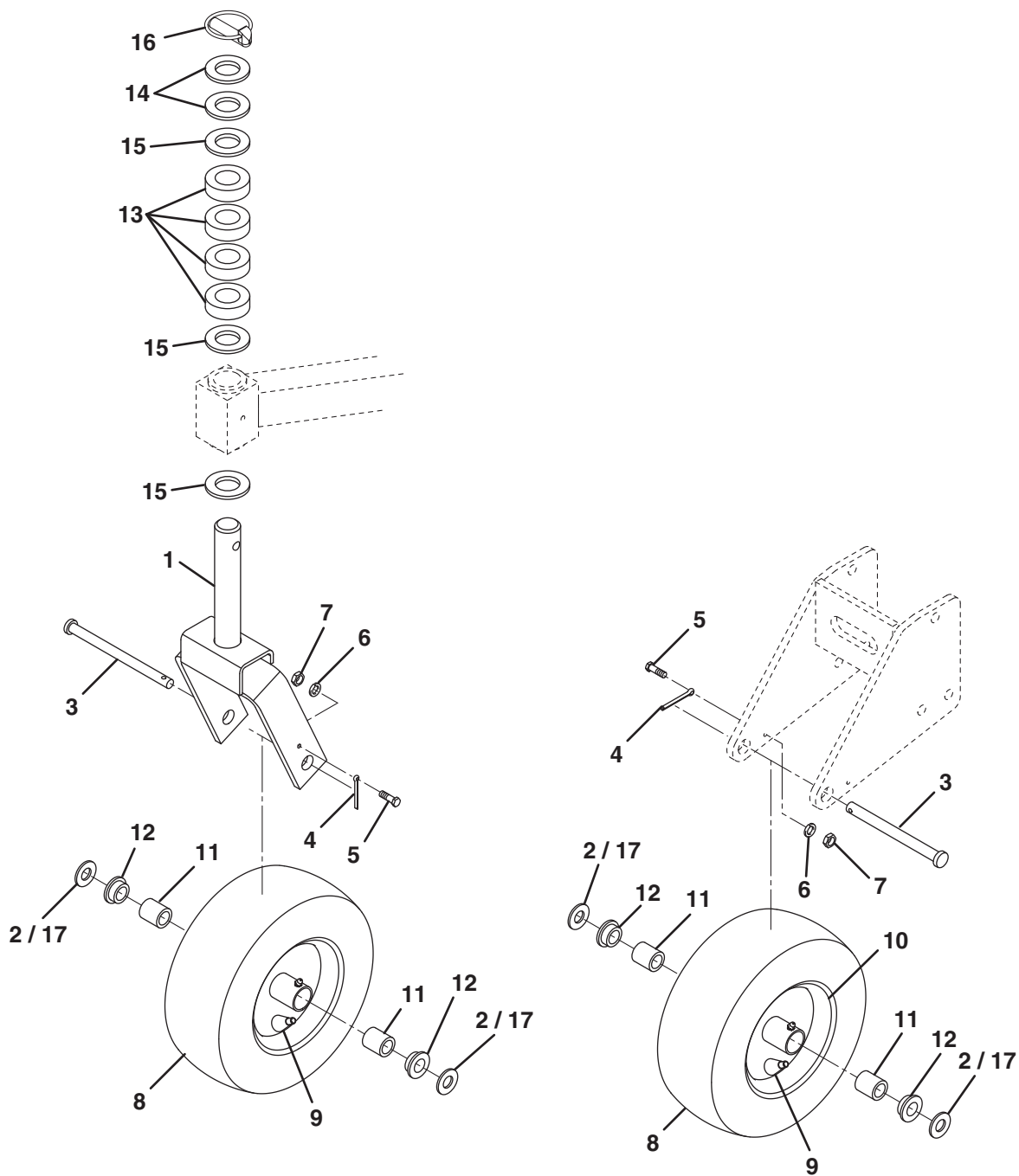
4



3

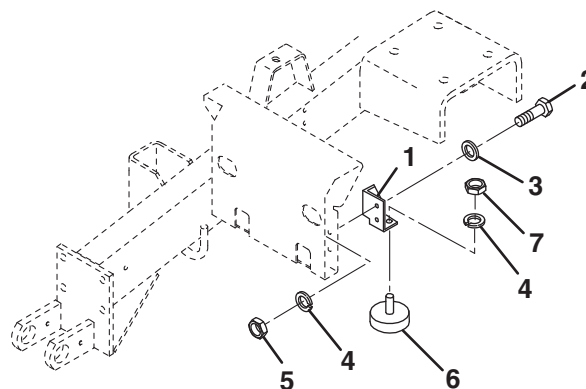
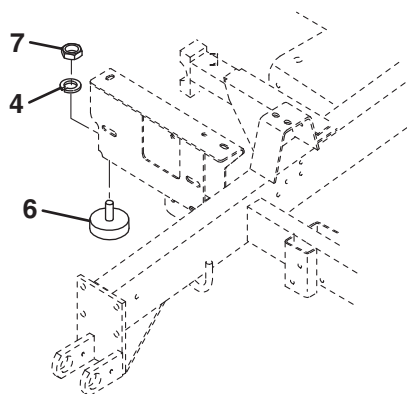
| Item | Part No. | Qty. | Description                      | Serial Numbers/Notes        |
|------|----------|------|----------------------------------|-----------------------------|
| 1    | 5001073  | 1    | Left Wing Deck                   | Includes Items 3 and 4      |
| 2    | 5001072  | 1    | Right Wing Deck (Not Shown)      |                             |
| 3    | 4164381  | 2    | • Decal, Blade Contact Danger    | Outside motor on Right Deck |
| 4    | 3002676  | 1    | • Decal, Cutting Height          |                             |
| 5    | 2721180  | 2    | Motor, CCW Rotation Deck         |                             |
| 6    | 557523   | 1    | • Key                            |                             |
| 7    | 4186581  | 2    | Blade, Couter-Clockwise Rotation | Inside Motor on Right Deck  |
| 8    | 2721181  | 2    | Motor, CW Rotation Deck          |                             |
| 9    | 557523   | 1    | • Key                            |                             |
| 10   | 4186582  | 2    | Blade, Clockwise Rotation        |                             |
| 11   | 1001885  | 4    | Adapter, Blade                   |                             |
| 12   | 400410   | 4    | Screw, 1/2-13 x 1-3/4" Hex Head  |                             |
| 13   | 446154   | 12   | Lockwasher, 1/2 Heavy            |                             |
| 14   | 400264   | 8    | Screw, 3/8-16 x 1-1/4" Hex Head  |                             |
| 15   | 446142   | 34   | Lockwasher, 3/8 Heavy            |                             |
| 16   | 443110   | 34   | Nut, 3/8-16 Hex                  |                             |
| 17   | 453011   | 32   | Flat Washer, 3/8                 |                             |
| 18   | 440124   | 24   | Carriage Bolt, 3/8-16 x 1-3/4"   |                             |
| 19   | 366562   | 2    | Wheel, Deck                      |                             |
| 20   | 367140   | 2    | Spacer, Wheel                    |                             |
| 21   | 400348   | 2    | Screw, 7/16-14 x 3" Hex Head     |                             |
| 22   | 453013   | 2    | Flat Washer, 7/16                |                             |
| 23   | 444753   | 2    | Locknut, 7/16-14 Center          |                             |
| 24   | 361723   | 2    | Stop, Rubber                     |                             |
| 25   | 444762   | 8    | Locknut, 3/8-16 Center           |                             |
| 26   | 340429   | 2    | Bumper, Deck                     |                             |
| 27   | 441624   | 8    | Carriage Bolt, 3/8-16 x 1"       |                             |
| 28   | 365991   | 2    | Reflector                        |                             |
| 29   | 403746   | 4    | Screw, #10-24 x 3/4" Hex Head    |                             |
| 30   | 452002   | 4    | Flat Washer, #110                |                             |
| 31   | 446116   | 4    | Lockwasher, #10                  |                             |
| 32   | 444310   | 4    | Nut, #10-24 Hex                  |                             |
| 33   | 2720170  | 2    | Arm, Outside Caster              |                             |
| 34   | 363539   | 4    | • Bushing                        |                             |
| 35   | 2720171  | 2    | Arm, Inside Caster               |                             |
| 36   | 363539   | 4    | • Bushing                        |                             |
| 37   | 400420   | 8    | Screw, 1/2-13 x 3-1/2" Hex Head  |                             |
| 38   | 453017   | 16   | Flat Washer, 1/2                 |                             |
| 39   | 443118   | 8    | Nut, 1/2-13 Hex                  |                             |
| 40   | 471214   | 6    | Grease Fitting, Straight         |                             |
| > 41 | 4167200  | AR   | Shim, 10 GA Motor                |                             |

&gt; Change from previous revision



| Item | Part No. | Qty. | Description                     | Serial Numbers/Notes |
|------|----------|------|---------------------------------|----------------------|
| 1    | 131717   | 8    | Yoke, Caster Wheel Spindle      |                      |
| 2    | 453022   | AR   | Flat Washer, 3/4 x 1/8 Thick    |                      |
| 3    | 3003207  | 10   | Shaft, Caster Wheel             |                      |
| 4    | 460056   | 10   | Cotter Pin, 3/16 x 2"           |                      |
| 5    | 403578   | 10   | Screw, #10-24 x 1" Hex Head     |                      |
| 6    | 446118   | 10   | Lockwasher, #10                 |                      |
| 7    | 444310   | 14   | Nut, #10-24 Hex                 |                      |
|      | 4185640  | 10   | Caster Wheel, 11 x 4 x 5        |                      |
| 8    | 148049   | 1    | • Tire, 11 x 4 - 5NHS 4 Ply     |                      |
| 9    | 363233   | 1    | • Valve Stem                    |                      |
| 10   | 4185641  | 1    | • Wheel and Bearing             |                      |
|      | 4187500  | 1    | • • Kit, Bearing & Bushing      |                      |
| 11   | 4185642  | 2    | • • • Bearing, 1-3/8" OD Roller |                      |
| 12   | 4185643  | 2    | • • • Bushing, 1-3/8" Flanged   |                      |
| 13   | 365772   | 32   | Spacer, Cutting Height          |                      |
| 14   | 361648   | AR   | Washer                          |                      |
| 15   | 366593   | 24   | Spacer, Caster Wheel            |                      |
| 16   | 3004894  | 10   | Pin, Klick Type                 |                      |
| 17   | 307374   | AR   | Flat Washer, 3/4 x 5/64 Thick   |                      |

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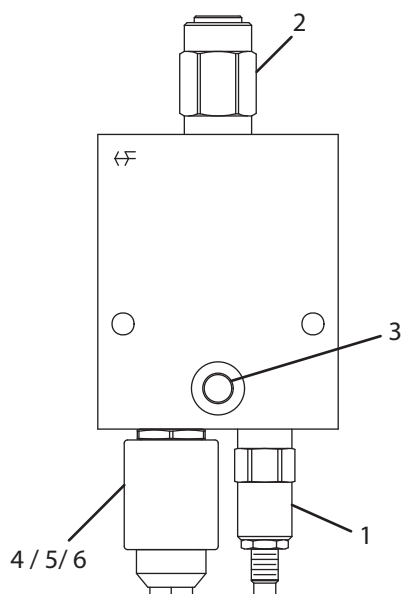


| Item | Part No. | Qty. | Description                 | Serial Numbers/Notes |
|------|----------|------|-----------------------------|----------------------|
| 1    | 3003427  | 1    | Bracket, Deck Bumper        |                      |
| 2    | 400262   | 2    | Screw, 3/8-16 x 1" Hex Head |                      |
| 3    | 453011   | 2    | Flat Washer, 3/8            |                      |
| 4    | 446142   | 4    | Lockwasher, 3/8 Heavy       |                      |
| 5    | 445806   | 4    | Nut, 3/8-16 Hex Nylock      |                      |
| 6    | 361723   | 2    | Stop, Rubber                |                      |
| 7    | 444762   | 2    | Locknut, 3/8-16 Hex Center  |                      |

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## 52.1 Deck Valve

Part Number 4135582



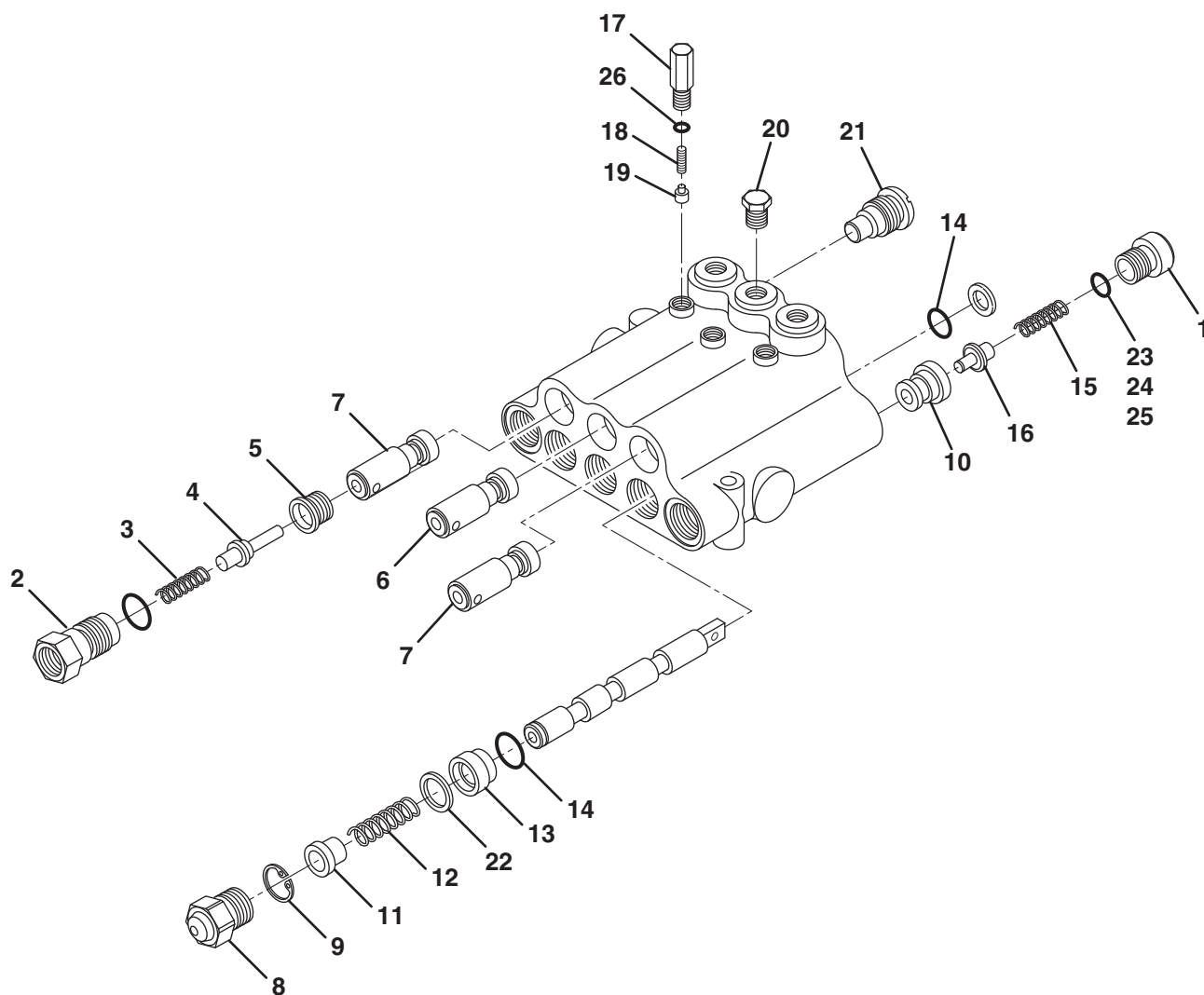
| Item | Part No. | Qty. | Description         | Serial Numbers/Notes              |
|------|----------|------|---------------------|-----------------------------------|
| 1    | 5002911  | 1    | Relief Valve        | REFERENCE K10, K11, K12, See 61.1 |
|      | 5003579  | 1    | • Seal Kit          |                                   |
| 2    | 5002912  | 1    | Relief Valve        |                                   |
|      | 5003554  | 1    | • Seal Kit          |                                   |
| 3    | 3010199  | 1    | Plug, SAE #6        |                                   |
|      | 339897   | 1    | • O-Ring            |                                   |
| 4    | 5002913  | 1    | Solenoid Valve      |                                   |
|      | 5003579  | 1    | • Seal Kit          |                                   |
| 5    | 4134530  | 1    | Coil, 12 Volt DC    |                                   |
| 6    | 2811269  | 1    | Nut, coil w/o-Rings |                                   |

> Change from previous revision

## 53.1 Lift Valve

Part Number 1001802

Serial No. All

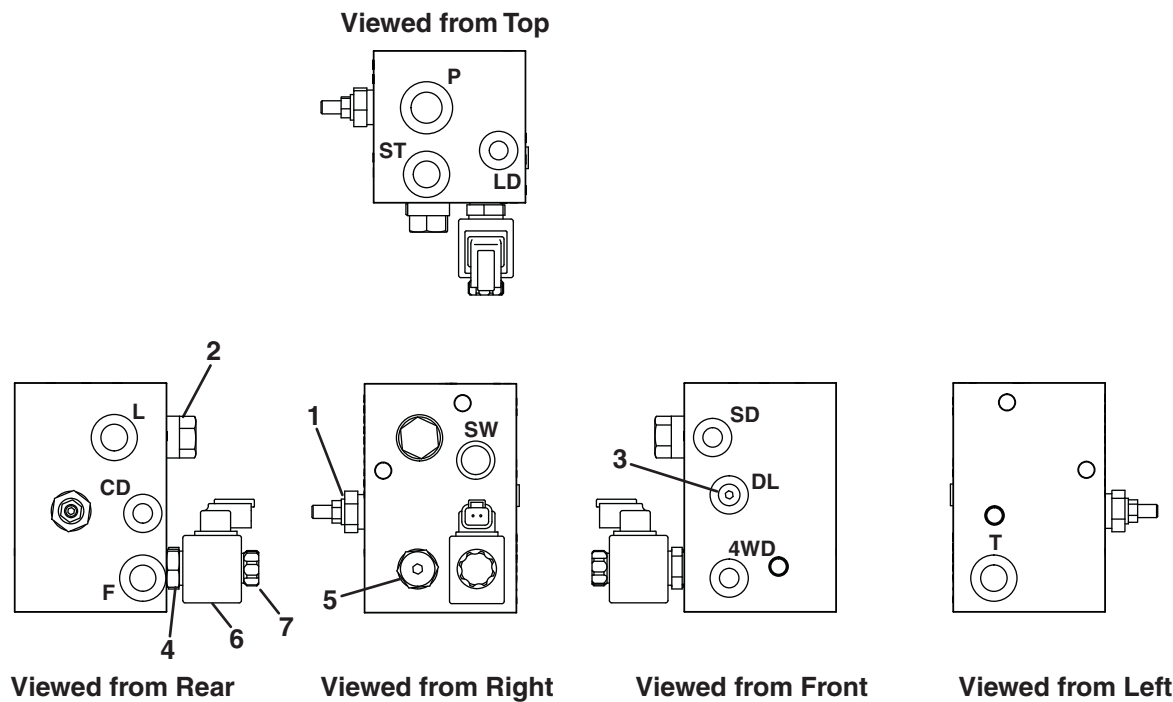


| Item | Part No. | Qty. | Description            | Serial Numbers/Notes |
|------|----------|------|------------------------|----------------------|
| 1    | 558005   | 1    | Plug                   |                      |
| 2    | 500745   | 3    | Plug                   |                      |
| 3    | 4113978  | 3    | Spring                 |                      |
| ● 4  | N/S      | 3    | Poppet                 |                      |
| 5    | 500746   | 3    | Seat                   |                      |
| 6    | 5001599  | 1    | Plunger                |                      |
| 7    | 5001603  | 2    | Plunger                |                      |
| 8    | 558004   | 3    | Cap                    |                      |
| 9    | 558007   | 3    | Retaining Ring         |                      |
| 10   | N/S      | 1    | Seat                   |                      |
| 11   | 558011   | 3    | Spacer                 |                      |
| 12   | 5001616  | 3    | Spring                 |                      |
| 13   | 4113979  | 3    | Bushing                |                      |
| ● 14 | N/S      | 6    | O-Ring                 |                      |
| 15   | 5001614  | 1    | Spring                 |                      |
| 16   | 5001615  | 1    | Poppet                 |                      |
|      | 5001612  | 3    | Detent Repair Kit      |                      |
| 17   | N/S      | 1    | • Plug, Plunger Detent |                      |
| 18   | N/S      | 1    | • Spring, Detent       |                      |
| 19   | N/S      | 1    | • Plunger, Detent      |                      |
| 20   | 351122   | 3    | Plug                   |                      |
| 21   | 500750   | 3    | Plug                   |                      |
| 22   | 558008   | 3    | Washer                 |                      |
| 23   | 545925   | AR   | Shim                   |                      |
| 24   | 4113981  | AR   | Shim                   |                      |
| 25   | 4113982  | AR   | Shim                   |                      |
| 26   | 546112   | AR   | Disc                   |                      |
| ●    | 558010   | 1    | Seal Repair Kit        |                      |

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54.1 Control Valve  
Part Number 4174300

Serial No. All

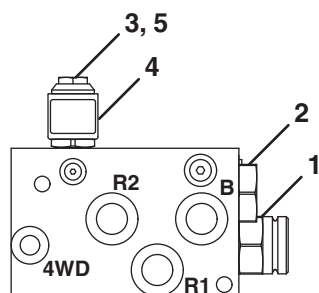


| Item | Part No. | Qty. | Description                 | Serial Numbers/Notes    |
|------|----------|------|-----------------------------|-------------------------|
| 1    | 5003510  | 1    | Relief Valve, 200 psi       | REFERENCE K14, See 61.1 |
|      | 5003579  | 1    | • Seal Kit                  |                         |
| 2    | 556845   | 1    | Flow Control Valve, 4.5 GPM |                         |
|      | 5003579  | 1    | • Seal Kit                  |                         |
| 3    | 3010199  | 1    | Plug                        |                         |
| 4    | 4199500  | 1    | Solenoid Valve, 4WD         |                         |
|      | 5003578  | 1    | • Seal Kit                  |                         |
| 5    | 4199520  | 1    | Plug, Cavity                |                         |
|      | 4199521  | 1    | • Seal Kit                  |                         |
| 6    | 4134532  | 1    | Coil, 4WD                   |                         |
| 7    | 2811253  | 1    | Nut, Coil                   |                         |

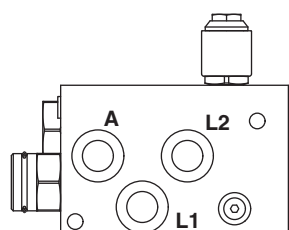
> Change from previous revision

## 55.1 4WD Valve

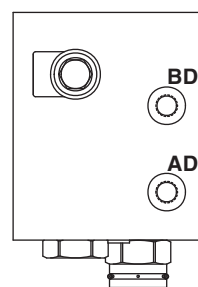
Part Number 4135555



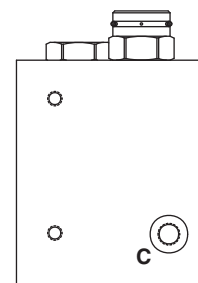
Viewed from Right



Viewed from Left



Viewed from Top



Viewed from Bottom

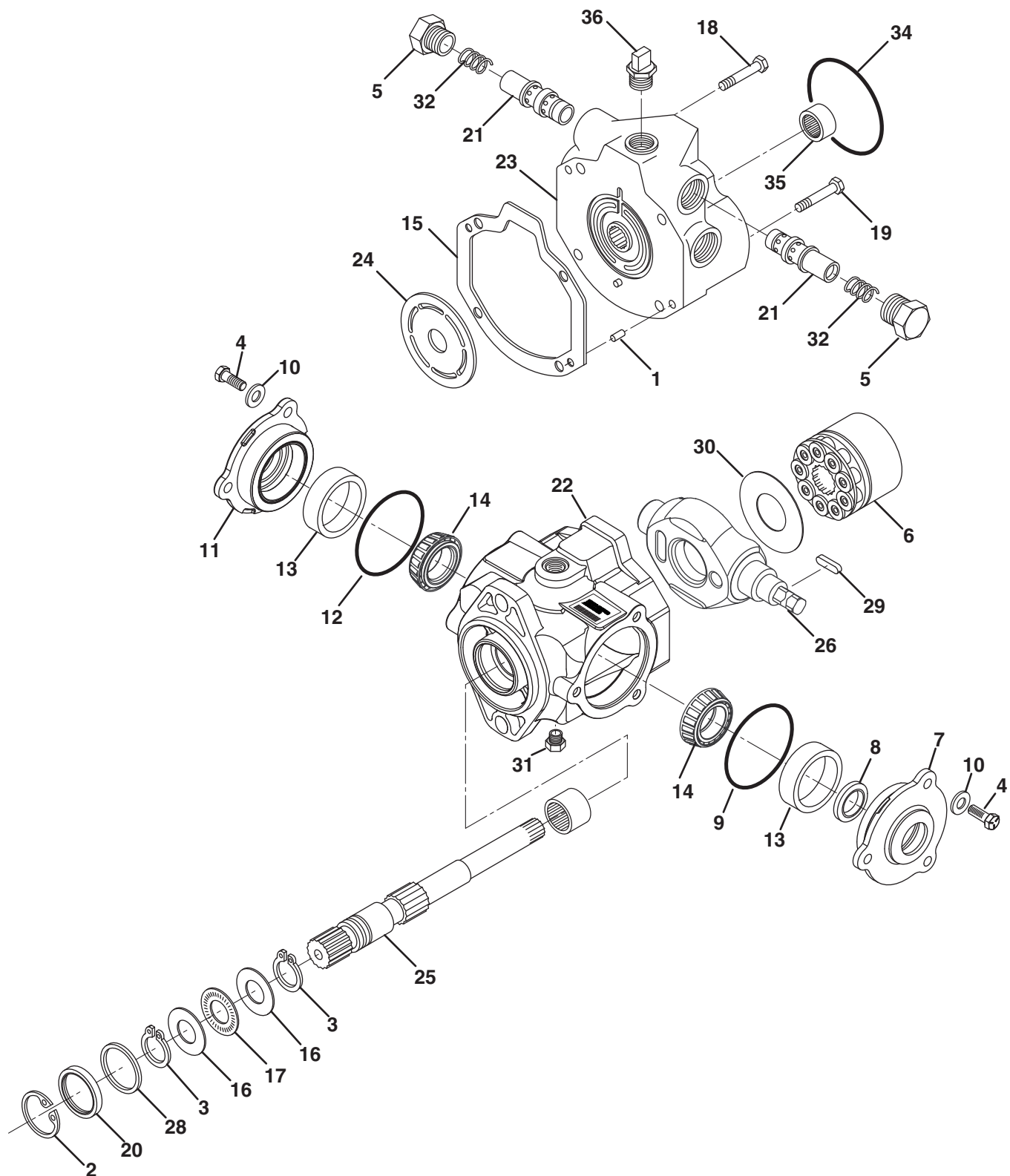
| Item | Part No. | Qty. | Description                 | Serial Numbers/Notes           |
|------|----------|------|-----------------------------|--------------------------------|
| 1    | 556897   | 1    | Spool Valve                 | <b>REFERENCE K16, See 61.1</b> |
|      | 5003581  | 1    | • Seal Kit                  |                                |
| 2    | 558038   | 1    | Check Valve                 |                                |
|      | 5003581  | 1    | • Seal Kit                  |                                |
| 3    | 556847   | 1    | Solenoid Valve, 4WD Reverse |                                |
|      | 5003578  | 1    | • Seal Kit, Solenoid Valve  |                                |
| 4    | 4134532  | 1    | Coil                        |                                |
| 5    | 2811253  | 1    | Nut, Coil                   |                                |

> Change from previous revision

## 56.1 Traction Pump

Part Number 4153880

Serial No. All



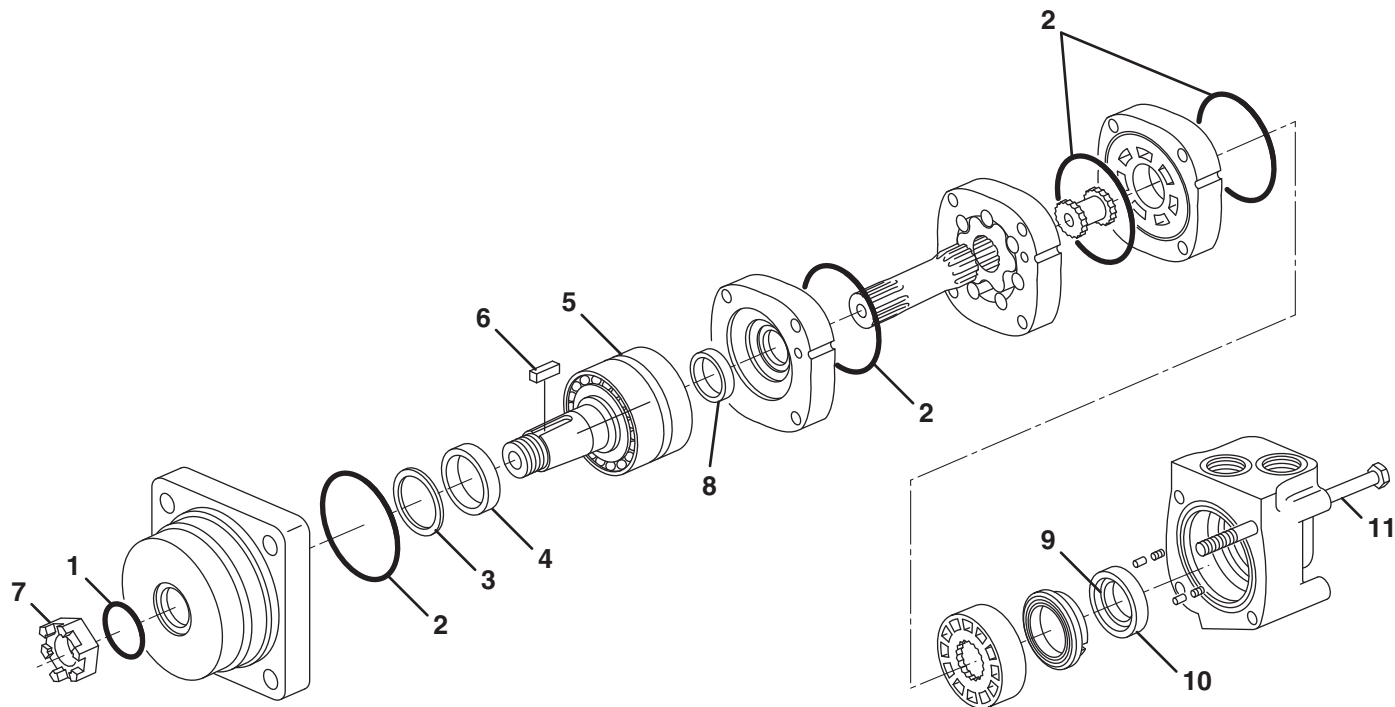
| Item | Part No. | Qty. | Description               | Serial Numbers/Notes |
|------|----------|------|---------------------------|----------------------|
| 1    | 557454   | 2    | Dowel Pin                 |                      |
| ● 2  | N/S      | 1    | Retaining Ring            |                      |
| ● 3  | N/S      | 2    | Retaining Ring            |                      |
| 4    | 4162501  | 6    | Screw, Cap                |                      |
| 5    | 557444   | 2    | Plug                      |                      |
| 6    | 557442   | 1    | Rotating Kit              |                      |
| 7    | 4162502  | 1    | Plate, Control Arm Cover  |                      |
| 8    | 4162503  | 1    | • Seal, Control Arm Shaft |                      |
| ● 9  | N/S      | 1    | O-Ring                    |                      |
| 10   | 4162504  | 6    | Washer                    |                      |
| 11   | 4162505  | 1    | Plate, Cover              |                      |
| ● 12 | N/S      | 1    | O-Ring                    |                      |
| 13   | 4162506  | 2    | Cup, Bearing              |                      |
| 14   | 4162508  | 2    | Cone, Bearing             |                      |
| ● 15 | N/S      | 1    | Gasket, Housing           |                      |
| 16   | 557426   | 2    | Thrust Race               |                      |
| 17   | 557425   | 1    | Thrust Bearing            |                      |
| 18   | 4162509  | 2    | Screw, Top                |                      |
| 19   | 4162510  | 2    | Screw, Bottom             |                      |
| 20   | 557446   | 1    | Shaft Seal, Viton         |                      |
| 21   | 557445   | 2    | Relief Valve              |                      |
| 22   | 4162511  | 1    | Housing                   |                      |
| 23   | 557440   | 1    | Backplate                 |                      |
| 24   | 557441   | 1    | Valve Plate               |                      |
| 25   | 557433   | 1    | Drive Shaft               |                      |
| 26   | 4162512  | 1    | Cam Plate                 |                      |
| 27   | 4162513  | 1    | O-Ring Molded             | Not Shown            |
| 28   | 557430   | 1    | Washer                    |                      |
| 29   | 557450   | 1    | Key, Trunnion             |                      |
| 30   | 4162514  | 1    | Insert, Camplate          |                      |
| 31   | 4162515  | 1    | Plug                      |                      |
| 32   | 557448   | 2    | Spring                    |                      |
| ● 33 | N/S      | 2    | O-Ring                    | Not Shown            |
| 34   | 557447   | 1    | O-Ring                    |                      |
| 35   | 338938   | 1    | Coupler                   |                      |
| 36   | 557666   | 1    | Tow Valve                 |                      |
| ●    | 4162516  | 1    | Seal Kit                  |                      |

&gt; Change from previous revision

## 57.1 Rear Wheel Motor

Part Number 4178560

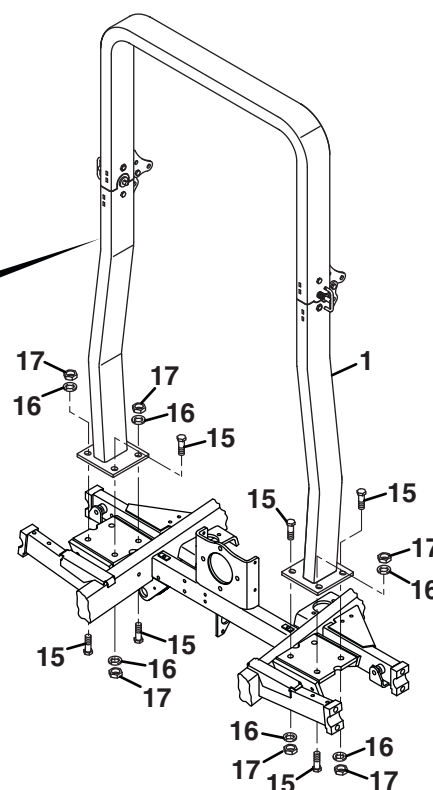
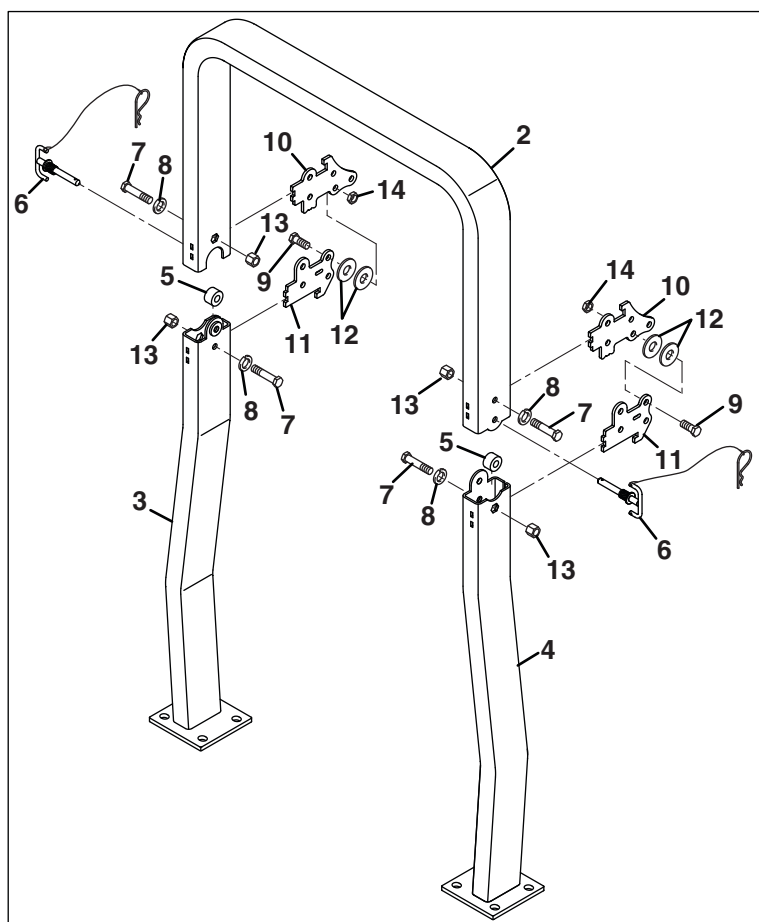
Serial No. All



| Item | Part No. | Qty. | Description           | Serial Numbers/Notes |
|------|----------|------|-----------------------|----------------------|
| ● 1  | N/S      | 1    | Seal Exclusion        |                      |
| ● 2  | N/S      | 4    | Seal, 3" I.D.         |                      |
| ▼ 3  | N/S      | 1    | Back-Up Ring          |                      |
| ▼ 4  | N/S      | 1    | Shaft Seal            |                      |
| 5    | 5003384  | 1    | Shaft and Bearing Kit |                      |
| 6    | 554780   | 1    | Key                   |                      |
| 7    | 554779   | 1    | Nut                   |                      |
| ● 8  | N/S      | 1    | Shaft, Face Seal      |                      |
| ● 9  | N/S      | 1    | Inner Face Seal       |                      |
| ● 10 | N/S      | 1    | Outer Face Seal       |                      |
| 11   | 556450   | 4    | Bolt                  |                      |
| ●    | 4178561  | 1    | Rear Seal Kit         |                      |
| ▼    | 4178562  | 1    | Front Seal Kit        |                      |

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## 58.1 ROPS

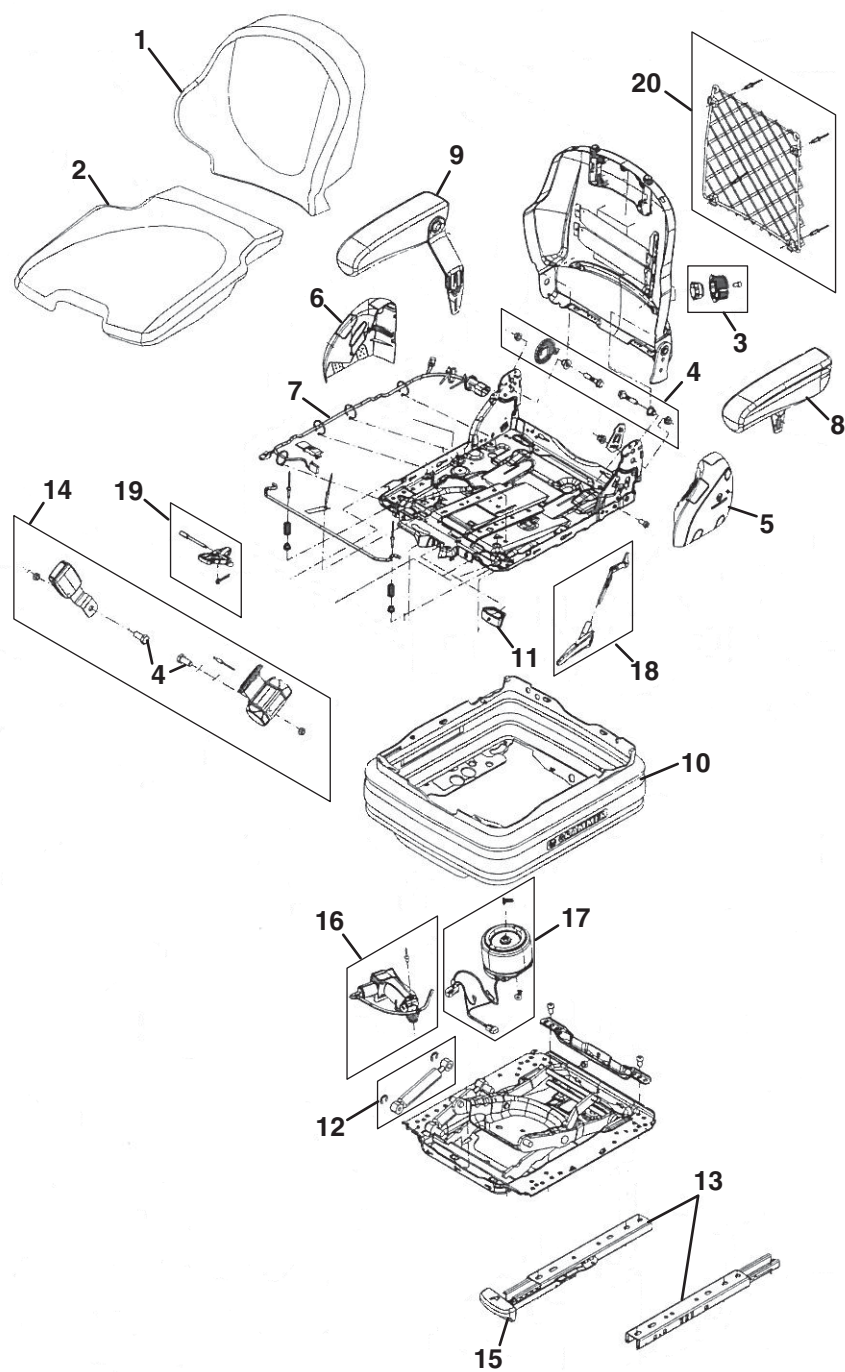


| Item | Part No. | Qty. | Description                        | Serial Numbers/Notes |
|------|----------|------|------------------------------------|----------------------|
| 1    | 4179004  | 1    | ROPS                               |                      |
| 2    | N/S      | 1    | • Upper ROPS                       |                      |
| 3    | N/S      | 1    | • Right Lower ROPS                 |                      |
| 4    | N/S      | 1    | • Left Upper ROPS                  |                      |
| 5    | 4193120  | 2    | • Tube, Polyurethane               |                      |
| 6    | 4192460  | 2    | • Pull Pin Assembly                |                      |
| 7    | 800788   | 4    | • Screw, 1/2-120 x 2-1/4" Hex Head |                      |
| 8    | 446152   | 4    | • Lockwasher, 1/2                  |                      |
| 9    | 400406   | 2    | • Screw, 1/2-13 x 1-1/4" Hex Head  |                      |
| 10   | N/S      | 2    | • Plate, Upper Hinge               |                      |
| 11   | N/S      | 2    | • Plate, Lower Hinge               |                      |
| 12   | 4193184  | 4    | • Washer                           |                      |
| 13   | 4193200  | 4    | • Nut, 1/2-20 Long Hex             |                      |
| 14   | 64151-5  | 2    | • Nut                              |                      |
| 15   | 400616   | 8    | Screw, 5/8-11 x 2" Hex Head        |                      |
| 16   | 446166   | 8    | Lockwasher, 5/8 Heavy              |                      |
| 17   | 443126   | 8    | Nut, 5/8-11 Hex                    |                      |

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## 59.1 Seat

Part Number 4185878



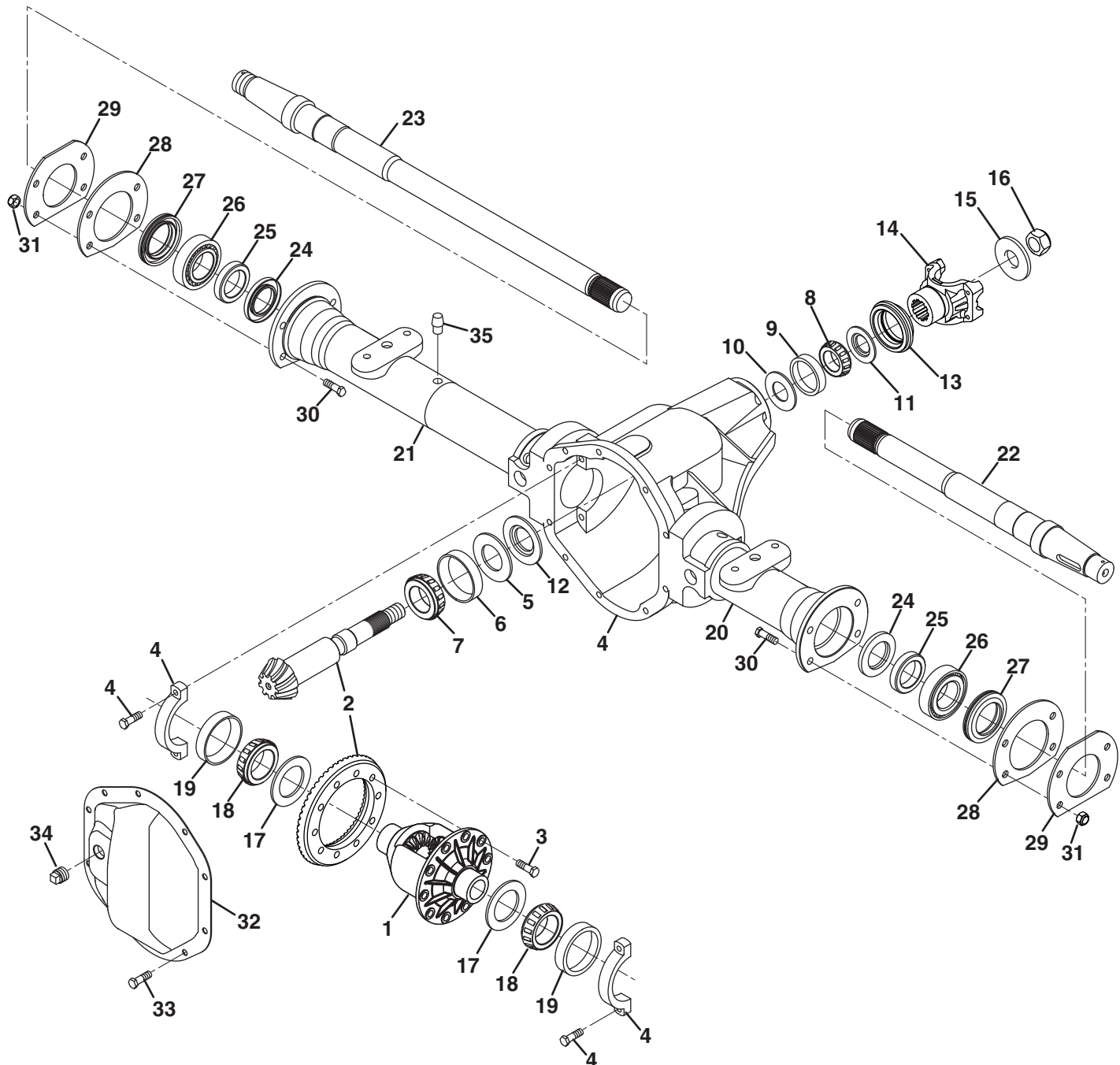
| Item | Part No. | Qty. | Description                         | Serial Numbers/Notes    |
|------|----------|------|-------------------------------------|-------------------------|
| 1    | 4200240  | 1    | Backrest Cushion                    | Does not include lever. |
| 2    | 4200241  | 1    | Seat Cushion                        |                         |
| 3    | 4173562  | 1    | Lumbar Handle Kit                   |                         |
| 4    | 4173563  | 1    | Wear Parts Kit, Backrest Attachment |                         |
| 5    | 4200244  | 1    | Cover, Left Side                    |                         |
| 6    | 4200245  | 1    | Cover, Right Side                   |                         |
| 7    | 4173566  | 1    | OPS Switch Kit                      |                         |
| 8    | 4173567  | 1    | Left Side Adjustable Armrest Kit    |                         |
| 9    | 4173568  | 1    | Right Side Adjustable Armrest Kit   |                         |
| 10   | 4200249  | 1    | Bellows                             |                         |
| 11   | 4200250  | 1    | Weight Adjust Handle                |                         |
| 12   | 4173573  | 1    | Shock Absorber Kit                  |                         |
| 13   | 4200251  | 1    | Adjuster Rails                      |                         |
| 14   | 4173575  | 1    | Seat Belt                           |                         |
| 15   | 4200253  | 1    | Lever Kit, Slide Rail               |                         |
| 16   | 4200254  | 1    | Compressor, 12V                     |                         |
| 17   | 4200255  | 1    | Air Spring Kit                      |                         |
| 18   | 4173579  | 1    | Backrest Adjustment Kit             |                         |
| 19   | 4200257  | 1    | Lever, Weight Adjust Kit            |                         |
| 20   | 4200258  | 1    | Document Net Kit                    |                         |

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## 60.1 Front Axle

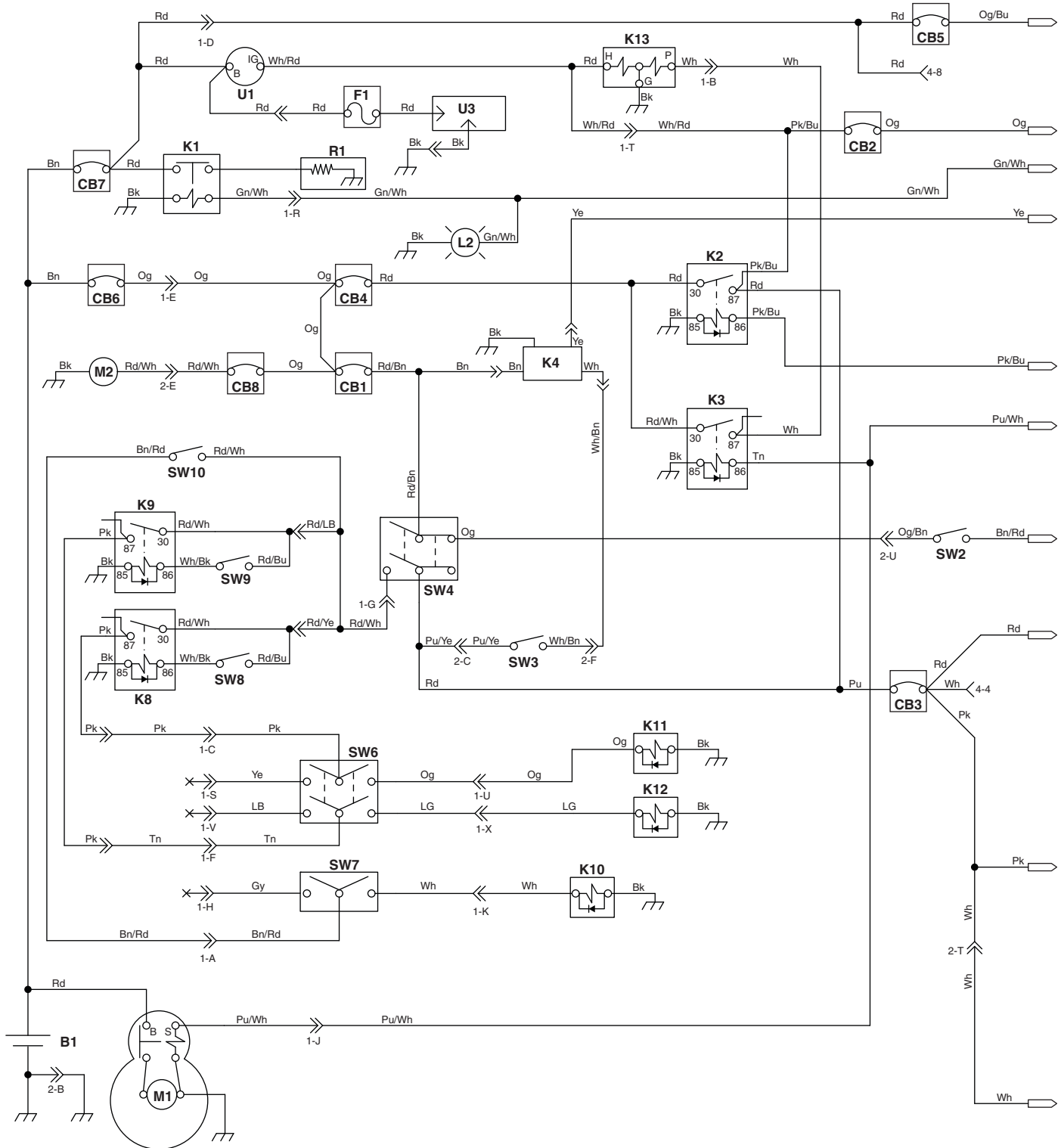
Part Number 4163987

Serial No. All



| Item | Part No. | Qty. | Description                       | Serial Numbers/Notes             |
|------|----------|------|-----------------------------------|----------------------------------|
| 1    | 4201300  | 1    | Case Assembly, Differential (T/L) | Includes bearing caps and screws |
| 2    | 4201320  | 1    | Gear and Pinion Assembly, Hypoid  |                                  |
| 3    | 4201520  | 10   | Screw, Gear Drive                 |                                  |
| 4    | N/S      | 1    | Carrier Sub Assembly              |                                  |
| 5    | 4201582  | 1    | Shim, Adjustment                  |                                  |
| 6    | 4201600  | 1    | Bearing Cup, Roller               |                                  |
| 7    | 4201640  | 1    | Bearing Cone, Roller              |                                  |
| 8    | 4201641  | 1    | Bearing Cone, Roller              |                                  |
| 9    | 4201642  | 1    | Bearing Cup, Roller               |                                  |
| 10   | 4201643  | 1    | Shim, Adjustment                  |                                  |
| 11   | 4201660  | 1    | Slinger, Pinion Oil Seal          |                                  |
| 12   | 4201760  | 1    | Baffle, Pinion Oil                |                                  |
| 13   | 4201762  | 1    | Seal, Oil                         |                                  |
| 14   | 4201922  | 1    | End Yoke                          |                                  |
| 15   | 4201961  | 1    | Washer, Flat                      |                                  |
| 16   | 4202000  | 1    | Nut, Pinion                       |                                  |
| 17   | 4202020  | 1    | Shim, Adjustment                  |                                  |
| 18   | 4202040  | 2    | Bearing Cone, Roller              |                                  |
| 19   | 4202060  | 2    | Bearing Cup, Roller               |                                  |
| 20   | N/S      | 1    | Left Side Axle Tube               |                                  |
| 21   | N/S      | 1    | Right Side Axle Tube              |                                  |
| 22   | 4203602  | 1    | Left Side Axle Shaft              |                                  |
| 23   | 4203603  | 1    | Right Side Axle Shaft             |                                  |
| 24   | 4203604  | 2    | Inner Shaft Seal                  |                                  |
| 25   | 4203605  | 2    | Collar                            |                                  |
| 26   | 4203606  | 2    | Bearing                           |                                  |
| 27   | 4203607  | 2    | Outer Shaft Seal                  |                                  |
| 28   | 4203608  | 2    | Steel Spacer                      |                                  |
| 29   | 4203609  | 2    | Plate, Retainer                   |                                  |
| 30   | 4203610  | 4    | Screw, Machined                   |                                  |
| 31   | 4203611  | 4    | Nut                               |                                  |
| 32   | 4203612  | 1    | Cover, Differential               |                                  |
| 33   | 4203613  | 10   | Screw, Differential Cover         |                                  |
| 34   | 4203614  | 1    | Plug, Oil Level/Fill              |                                  |
| 35   | 4203615  | 1    | Vent                              |                                  |

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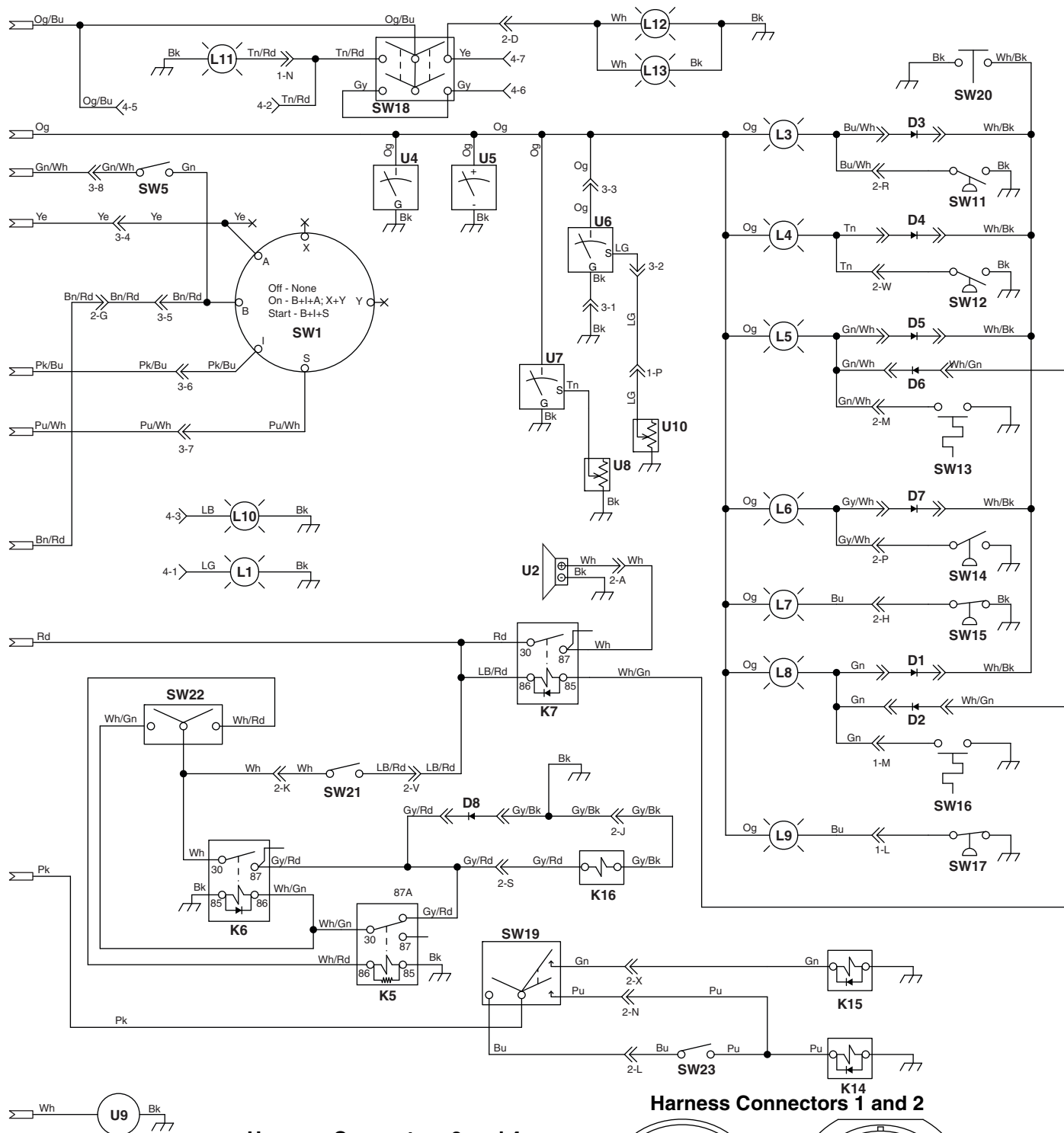
### Wire Color Abbreviations

Bk - Black  
Bn - Brown  
Bu - Blue  
Gn - Green

Gy - Gray  
LB - Light Blue  
LG - Light Green  
Og - Orange

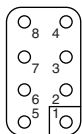
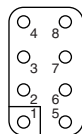
Pk - Pink  
Pu - Purple  
Rd - Red  
Tn - Tan

Wh - White  
Ye - Yellow



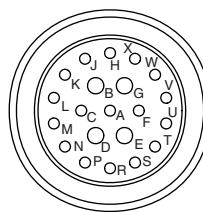
Harness Connectors 3 and 4

Ignition Harness  
Optional Cab Harness

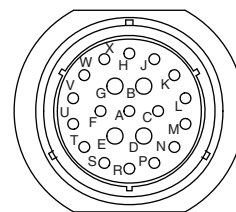


Console Harness

Harness Connectors 1 and 2



Engine Harness  
Mower Harness

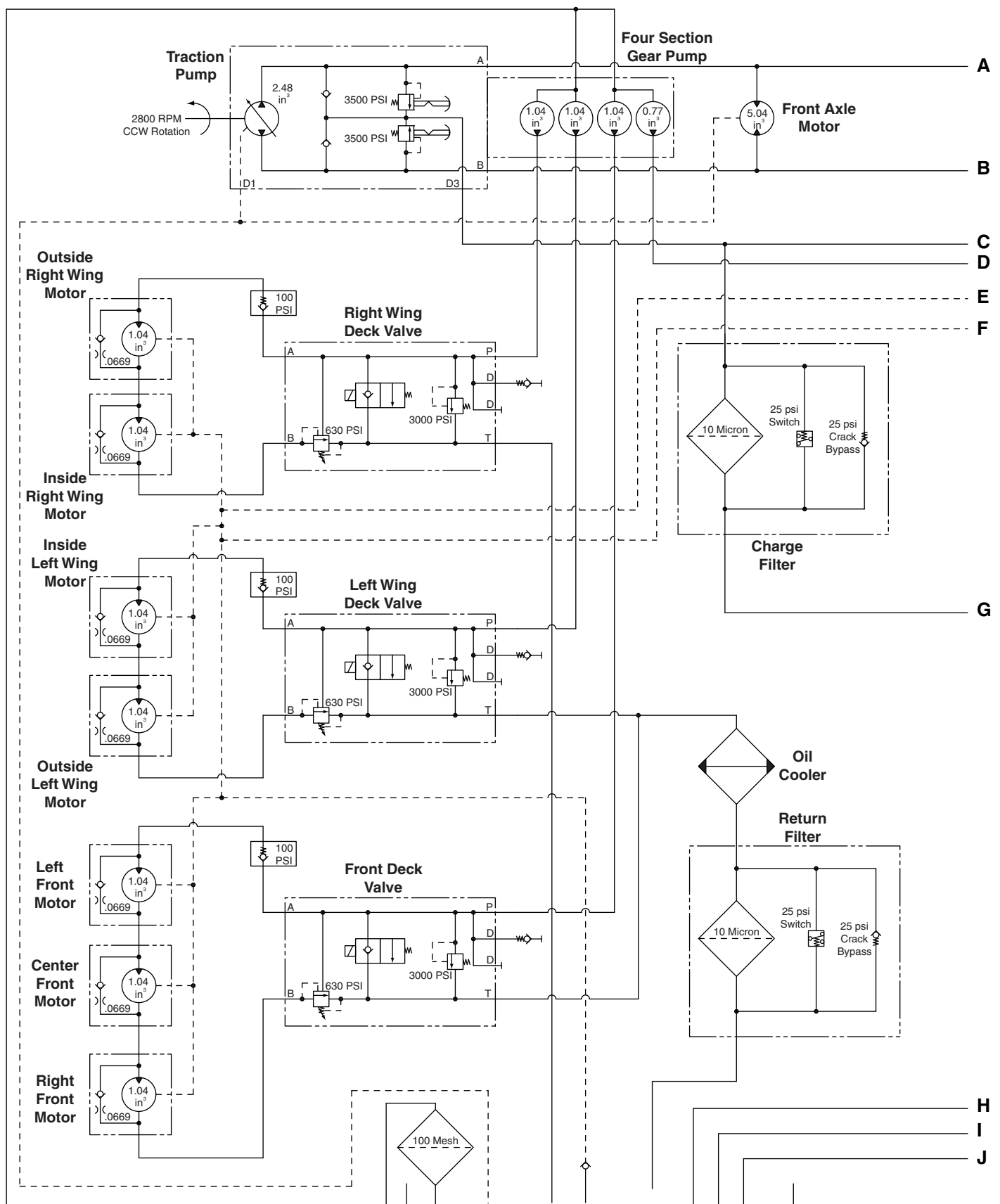


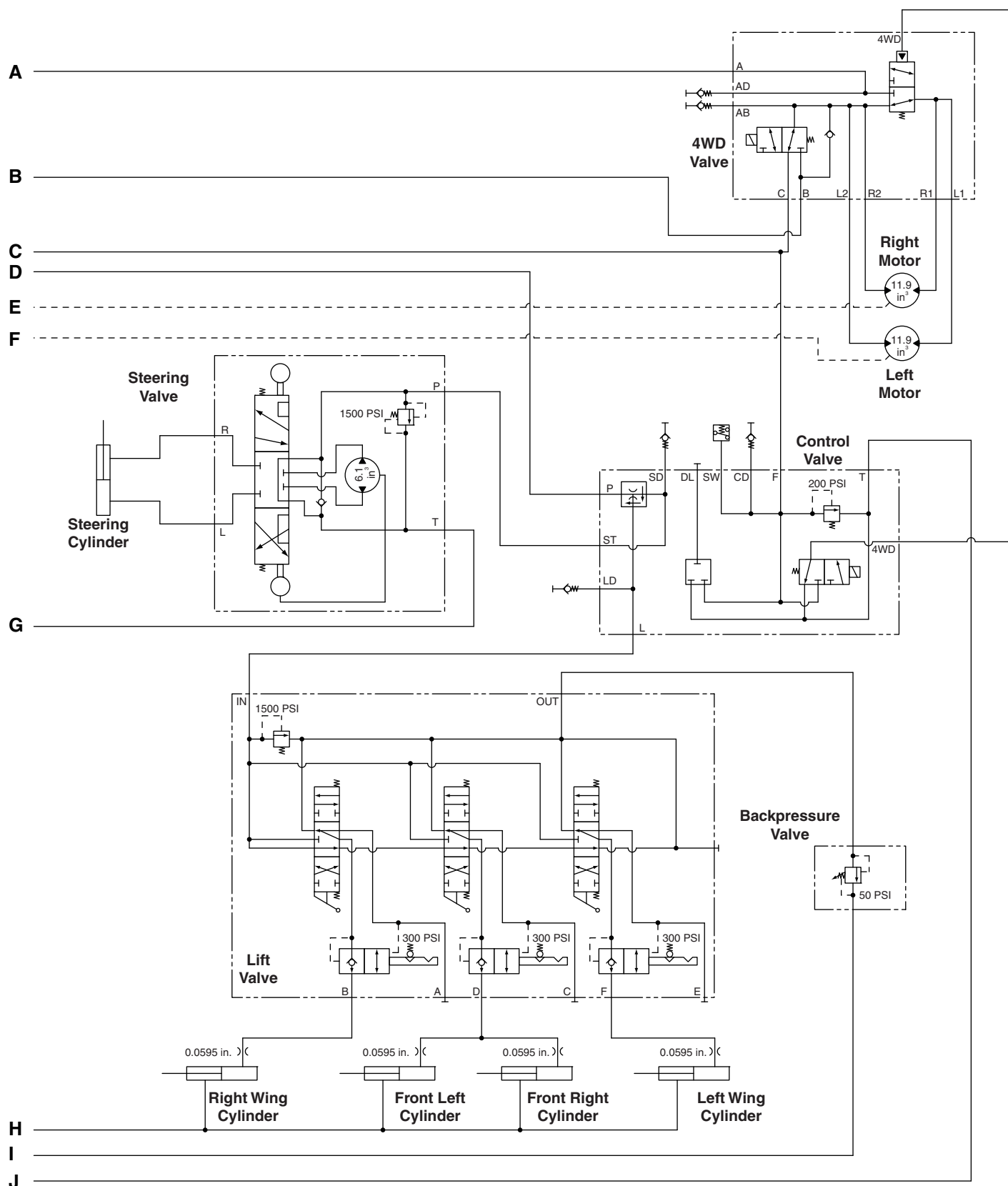
Console Harness

| Item | Reference Illustration | Part Number | Description                            | Serial Numbers/Notes         |
|------|------------------------|-------------|----------------------------------------|------------------------------|
| B1   | See 4.1                | N/S         | Battery                                |                              |
| CB1  | See 7.1                | 338601      | 10 Amp Circuit Breaker (Interlock)     |                              |
| CB2  | See 7.1                | 338601      | 10 Amp Circuit Breaker (Instruments)   |                              |
| CB3  | See 7.1                | 338601      | 10 Amp Circuit Breaker (Cruise, 4WD)   |                              |
| CB4  | See 7.1                | 338558      | 30 Amp Circuit Breaker (Accessories)   |                              |
| CB5  | See 7.1                | 338558      | 30 Amp Circuit Breaker (Lights)        |                              |
| CB6  | See 19.1               | 361439      | 50 Amp Circuit Breaker (Main)          |                              |
| CB7  | See 19.1               | 361439      | 50 Amp Circuit Breaker (Alternator)    |                              |
| CB8  | See 7.1                | 338601      | 10 Amp Circuit Breaker (Air Ride Seat) |                              |
| D1   | Not Shown              | 555846      | Diode, 3 Amp (Water Temp-Test)         | Labled A                     |
| D2   | Not Shown              | 555846      | Diode, 3 Amp (Water Temp-Horn)         | Labled B                     |
| D3   | Not Shown              | 555846      | Diode, 3 Amp (Air Cleaner-Test)        | Labled C                     |
| D4   | Not Shown              | 555846      | Diode, 3 Amp (Return Filter-Test)      | Labled D                     |
| D5   | Not Shown              | 555846      | Diode, 3 Amp (Oil Temperature-Test)    | Labled E                     |
| D6   | Not Shown              | 555846      | Diode, 3 Amp (Oil Temperature-Horn)    | Labled F                     |
| D7   | Not Shown              | 555846      | Diode, 3 Amp (Charge Filter-Test)      | Labled G                     |
| D8   | Not Shown              | 555846      | Diode, 3 Amp (Cruise Control)          | Labled H                     |
| D9   | Not Shown              | 555846      | No Function                            | Labled J                     |
| D10  | Not Shown              | 555846      | No Function                            | Labled K                     |
| F1   | See 43.1               | 836892      | 10 Ampf Fuse (Accessory Plug)          | Included in Harness 4175664  |
| K1   | See 41.1               | 131905      | Glow Plug Solenoid                     |                              |
| K2   | See 41.1               | 365963      | Accessory Relay                        | Labled 6                     |
| K3   | See 41.1               | 365963      | Fuel Solenoid Relay                    | Labled 4                     |
| K4   | See 41.1               | 3003036     | Seat Time Delay Relay                  |                              |
| K5   | See 41.1               | 4193880     | Brake Relay                            | Labled 1                     |
| K6   | See 41.1               | 365963      | Cruise Control Relay                   | Labled 2                     |
| K7   | See 41.1               | 365963      | Horn Relay                             | Labled 5                     |
| K8   | See 41.1               | 365963      | Right Wing Limit Switch Relay          |                              |
| K9   | See 41.1               | 365963      | Left Wing Limit Switch Relay           |                              |
| K10  | See 52.1               | 4134530     | Front Deck Valve Coil                  | Included in Part No. 4135582 |
| K11  | See 52.1               | 4134530     | Right Wing Deck Coil                   | Included in Part No. 4135582 |
| K12  | See 52.1               | 4134530     | Left Wing Deck Coil                    | Included in Part No. 4135581 |
| K13  | See 19.1               | 4134270     | Fuel Solenoid                          | Included in Engine           |
| K14  | See 54.1               | 4134532     | 4WD Coil                               | Included in Part No. 4174300 |
| K15  | See 55.1               | 4134532     | 4WD Reverse Coil                       | Included in Part No. 4135555 |
| K16  | See 11.1               | 340783      | Cruise Control Magnet                  |                              |
| L1   | Not Shown              | 555845      | Right Turn Indicator Light             |                              |
| L2   | Not Shown              | 555845      | Glow Plug Active Light                 |                              |
| L3   | Not Shown              | 555845      | Air Cleaner Service Light              |                              |
| L4   | Not Shown              | 555845      | Return Filter Service Light            |                              |
| L5   | Not Shown              | 555845      | Hydraulic Oil Temp Warning Light       |                              |
| L6   | Not Shown              | 555845      | Charge Filter Service Light            |                              |
| L7   | Not Shown              | 555845      | Low Charge Pressure Warning Light      |                              |
| L8   | Not Shown              | 555845      | Water Temp Warning Light               |                              |

| Item | Reference Illustration | Part Number | Description                           | Serial Numbers/Notes                                                                           |
|------|------------------------|-------------|---------------------------------------|------------------------------------------------------------------------------------------------|
| L9   | Not Shown              | 555845      | Low Engine Oil Pressure Warning Light | Included in Kit 69128<br>Included in Kit 69128<br>Included in Engine<br><br>Included in Engine |
| L10  | Not Shown              | 555845      | Left Turn Light                       |                                                                                                |
| L11  | Optional               |             | Tail Light                            |                                                                                                |
| L12  | Optional               |             | Head Light                            |                                                                                                |
| L13  | Optional               |             | Head Light                            |                                                                                                |
| M1   | See 19.1               | 556988      | Starter Motor                         |                                                                                                |
| M2   | Optional               |             | Air Ride Seat                         |                                                                                                |
| R1   | See 19.1               | 556996      | Glow Plugs                            |                                                                                                |
| SW1  | See 7.1                | 5002503     | Ignition Switch                       |                                                                                                |
| SW2  | See 12.1               | 1000649     | Parking Brake Switch                  |                                                                                                |
| SW3  | See 6.1                | N/S         | Seat Switch                           |                                                                                                |
| SW4  | See 7.1                | 3001372     | PTO Switch                            |                                                                                                |
| SW5  | See 7.1                | 365043      | Glow Plug Switch                      |                                                                                                |
| SW6  | See 7.1                | 3001374     | Wing Mower Switch                     |                                                                                                |
| SW7  | See 7.1                | 3001373     | Front Mower Switch                    |                                                                                                |
| SW8  | See 46.1               | 4125831     | Right Wing Deck Limit Switch          |                                                                                                |
| SW9  | See 46.1               | 4125831     | Left Wing Deck Limit Switch           |                                                                                                |
| SW10 | See 44.1               | 3001079     | Front Deck Limit Switch               |                                                                                                |
| SW11 | See 17.1               | 364883      | Air Cleaner Service Switch            |                                                                                                |
| SW12 | See 24.1               | 365974      | Return Filter Service Switch          |                                                                                                |
| SW13 | See 25.1               | 367551      | Hydraulic Oil Temperature Switch      |                                                                                                |
| SW14 | See 24.1               | 556419      | Charge Filter Service Switch          |                                                                                                |
| SW15 | See 26.1               | 132380      | Charge Pressure Switch                |                                                                                                |
| SW16 | See 19.1               | 367551      | Water Temperature Switch              |                                                                                                |
| SW17 | See 19.1               | 554018      | Oil Pressure Switch                   | Included in Engine                                                                             |
| SW18 | Optional               | 3001374     | Light Switch                          | Included in 69129 and Kit 69128                                                                |
| SW19 | See 7.1                | 3001370     | 4WD Switch                            | Included in Engine<br><br>Included in Harness 4175664                                          |
| SW20 | See 16.1               | 162739      | Horn / Warning Light Test Switch      |                                                                                                |
| SW21 | See 12.1               | 1000649     | Brake Pedal Switch                    |                                                                                                |
| SW22 | See 7.1                | 3001371     | Cruise Control Switch                 |                                                                                                |
| SW23 | See 10.1               | 1000649     | Reverse Sensing Switch                |                                                                                                |
| U1   | See 19.1               | 5000938     | Alternator (Standard)                 |                                                                                                |
| U2   | See 16.1               | 5000917     | Horn                                  |                                                                                                |
| U3   | See 43.1               | N/S         | Accessory Plug                        |                                                                                                |
| U4   | See 7.1                | 162721      | Volt Meter                            |                                                                                                |
| U5   | See 7.1                | 162723      | Hour Meter                            |                                                                                                |
| U6   | See 7.1                | 3005121     | Temperature Gauge                     |                                                                                                |
| U7   | See 7.1                | 365943      | Fuel Gauge                            |                                                                                                |
| U8   | See 23.1               | 163986      | Fuel Sender                           |                                                                                                |
| U9   | See 23.1               | 163574      | Fuel Pump                             |                                                                                                |
| U10  | See 18.1               | 162722      | Temperature Sender                    |                                                                                                |

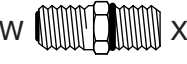
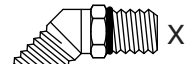
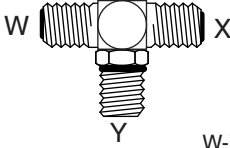
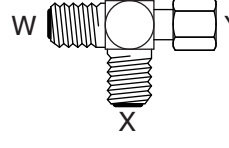
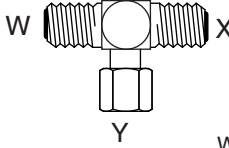
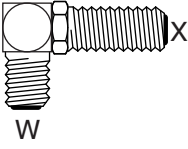
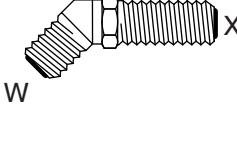
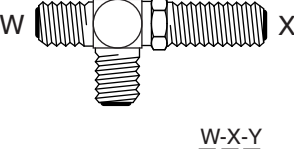
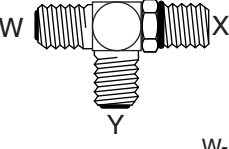
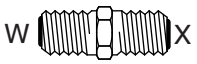
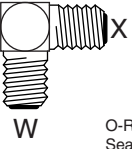
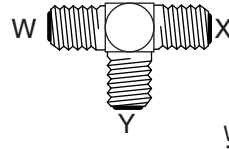
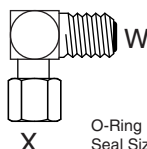
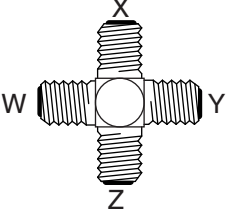
## 62.1 Hydraulic Schematic





## 63.1 O-Ring Chart

Serial No. All

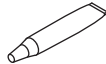
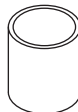
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Boss Dash Size</p>                               |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Boss Dash Size</p>                             |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Boss Dash Size</p>                       |
|  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y}}</math> — O-Ring Boss Dash Size</p>                             |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y}}</math> — O-Ring Face Seal Size — O-Ring Not Needed</p>       |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y}}</math> — O-Ring Face Seal Size — O-Ring Not Needed</p> |
|  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Face Seal Size</p>                               |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Face Seal Size</p>                             |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y}}</math> — O-Ring Face Seal Size</p>                     |
|  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Face Seal Size</p>                             |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y}}</math> — O-Ring Boss Dash Size — O-Ring Face Seal Size</p> |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Face Seal Size</p>                     |
|  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Face Seal Size</p>                             |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y}}</math> — O-Ring Face Seal Size — O-Ring Face Seal Size</p> |  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X}}</math> — O-Ring Not Needed</p>                         |
|  <p>O-Ring Face Seal Size — <math>\overline{\text{W-X-Y-Z}}</math> — 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 |
|----------------------|-----------|-------------------------|------------|------------|------------|------------|
| 339979               | 6-6       | Straight Adapter        | 339909     | 339897     |            |            |
| 339983               | 8-6       | Straight Adapter        | 339910     | 339897     |            |            |
| 339984               | 8-8       | Straight Adapter        | 339910     | 339898     |            |            |
| 339989               | 10-10     | Straight Adapter        | 339911     | 339899     |            |            |
| 340003               | 6-6       | Straight Adapter        | 339906     | 339897     |            |            |
| 340029               | 8-8       | 45° Adapter             | 339910     | 339898     |            |            |
| 340033               | 10-10     | 45° Adapter             | 339911     | 339899     |            |            |
| 340061               | 6-6       | 90° Adapter             | 339909     | 339897     |            |            |
| 340065               | 8-6       | 90° Adapter             | 339910     | 339897     |            |            |
| 340066               | 8-8       | 90° Adapter             | 339910     | 339898     |            |            |
| 340070               | 10-10     | 90° Adapter             | 339911     | 339899     |            |            |
| 340074               | 12-12     | 90° Adapter             | 339912     | 339900     |            |            |
| 340077               | 16-16     | 90° Adapter             | 339913     | 339901     |            |            |
| 340078               | 6-6       | 90° Adapter             | 339909     | 339897     |            |            |
| 340089               | 16-20     | 90° Adapter             | 339913     | 339902     |            |            |
| 340119               | 6-6-6     | Swivel Run Tee          | 339909     | 339909     |            |            |
| 340120               | 8-8-8     | Swivel Run Tee          | 339910     | 339910     |            |            |
| 340144               | 8-8-8     | Swivel Branch Tee       | 339910     | 339910     |            |            |
| 340215               | 6-6-6     | Bulkhead Run Tee        | 339909     | 339909     | 339909     |            |
| 340263               | 6-6-6     | Straight Thread Run Tee | 339909     | 339897     | 339909     |            |
| 340269               | 10-12-12  | Straight Thread Run Tee | 339911     | 339899     | 339912     |            |

| 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 |                       |             |        |

&gt; Change from previous revision

# Fluids and Compounds

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

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

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

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