



JACOBSEN®

Parts & Maintenance Manual

LF 3810™ Fairway Mower

67827, Kubota V1505-E 2WD

67828, Kubota V1505-E 4WD with ROPS



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.

Part No. 2810361-Rev B

GB

JACOBSEN

TEXTRON

TURF CARE AND SPECIALTY PRODUCTS

To Order Parts

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

Use of other than Textron Turf Care And Specialty Products authorized parts and accessories will void the warranty.

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Suggested Stocking Guide

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

To order any of the following material:

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

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	2810346	Engine Oil Filter		557772	Hydraulic Return Oil Filter
	549593	Engine Air Filter		556418	Hydraulic Charge Oil Filter
	555405	Engine Fuel Filter		5001122	Reel Drive Belt

Service Support Material

Qty.	Part No.	Description
	2810360	Safety & Operation Manual
	2810361	Parts & Maintenance
	3008923	Engine Parts Catalog
	5001575	Video, Operator Training

Qty.	Description
	Service Manual

How To Use This Manual

Abbreviations

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

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

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

Bulleted Items

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

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

1 SAFETY

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 operator's should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

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

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

1.2 IMPORTANT SAFETY NOTES



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

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

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

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

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



WARNING

The Interlock System on this tractor prevents the tractor from starting unless the brake lever is engaged, main reel switch is off and traction pedal is in neutral. The system will stop the engine if the operator leaves the seat without engaging the parking brake and setting the mower switch off.

NEVER operate tractor 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 Textron Turf Care And Specialty Products Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service. **Use of other than original or authorized Textron Turf Care And Specialty Products parts and Accessories will void the warranty.**

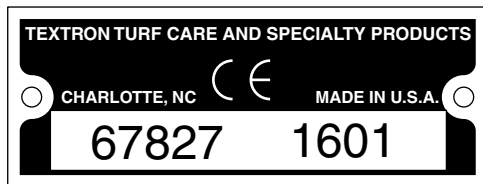
2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

67827 LF-3810, 2 Wheel Drive
 67828 LF-3810, 4 Wheel Drive

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

Serial Number An identification plate, like the one shown, listing the serial number, is attached to the frame of the tractor and is located on the operator's right just over the front tire.



Product	EEC Sound Power	Sound Pressure Level Operator Ear	Vibration M/S ²	
			Arms	Body
67827	101 dba	84 dba	1.8	1.2
67828	101 dba	84 dba	1.8	1.2

2.2 ENGINE

Make Kubota
 Model V-1505B Diesel, 4 cycle, Liquid Cooled
 Horsepower 35.5 Hp (26.5 Kw) @ 3000 rpm
 Displacement 91.4 in.³ (1498 cm³)
 Torque 73 ft. lbs. (99 Nm)
 Fuel:
 Type No. 2 Diesel
 Rating Min. cetane rating 45
 Capacity 12 U.S. gal. (45.4 l)
 Governor Setting:
 High Idle 3150 rpm
 Low Idle 1330 rpm

Lubrication:
 Type SAE 10W30
 API Classification CD/CE
 Capacity 4.9 U.S. qts. (4.6 l)
 Air Filter Donaldson, dry type with evacuator valve and service indicator.
 Alternator 40 Amp
 Cooling:
 Type 50/50 Mix Ethylene Glycol Antifreeze and water
 Capacity 6 qt (5.6 l)

2.3 TRACTOR

Tires:
 Front 26 x 12 - 12: STRAC RS (4 ply)
 Rear 20 x 10 - 8: Turf Trac RS (2 ply)
 Tire Pressure:
 Front 10-12 psi (69 - 83 kPa)
 Rear 8-10 psi (55 - 69 kPa)
 Battery:
 Type 12V, 600 Cold Cranking Amps
 Group BCI 24
 Brakes:
 Service Dynamic braking through traction circuit.
 Parking 9.25 in. (235 mm) front disc

Speed:
 Mowing 0 - 7.5 mph (12 km/h)
 Transport 0 - 12 mph (19.5 km/h)
 Reverse 0 - 6 mph (9.6 km/h)
Hydraulic System:
 Capacity 8.7 U.S. gal. (53 liter)
 Fluid Type 10W-30 or Greens Care 68
 Cooling Oil Cooler
 Charge Filter 10 micron
 Return Line Filter 10 micron
 Steering Hydrostatic power steering
 Reel Lift 3 Spool manual valve with cross-cut feature

2.4 WEIGHTS AND DIMENSIONS

Dimensions:	Inches	(mm)	Weight:	Lbs.	(kg)
Length -	107	(2718)	Overall (less operator).....	3000	(1360)
Height -	59	(1499)			
Width - Mow	126	(3200)			
Width - Transport.....	69	(1753)			
Turning Radius	110	(2794)			
Wheel Base.....	62	(1575)			
Ground Clearance.....	6	(152)			

2.5 CUTTING UNITS

Overall cutting Width	115 in. (2921 mm)	Frequency of Cut:	
Number of reels.....	Five, two front, three rear	5 Blade.....	0.172 in./mph clip (2.71 mm/kph)
Reel Diameter	7 in. (177 mm)	7 Blade.....	0.123 in./mph clip (1.94 mm/kph)
Reel Width.....	26 in. (660 mm)	10 Blade.....	0.086 in./mph clip (1.35 mm/kph)
Number of Blades/Reel ...	5, 7 or 10	Reel Flotation.....	Choice of full flotation or fixed.
Height of Cut:		Bearings.....	Self Adjusting, tapered roller
5 Blade	3/8 to 2-3/4 in. (9.5 to 70 mm)	Reel Adjustment.....	Zero Backlash adjuster
7 and 10 Blade	3/8 to 2-15/16 in. (9.5 to 75 mm)	Reel Drive	Kevlar® cord Polychain® synchronous belt drive

2.6 ACCESSORIES

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

R.H 5 blade reel (Single)	67899	Solid Front Roller (5-pack)	67764
L.H. 5 blade reel (Single).....	67900	Grooved Front Roller (5-pack).....	67765
R.H 7 blade reel (Single)	67901	Rear Roller Scraper (5-pack)	67909
L.H. 7 blade reel (Single).....	67902	2-Post ROPS with Seat Belt.....	67762
R.H. 10 blade reel (Single)	67903	Work Light Kit.....	69143
L.H. 10 blade reel (Single).....	67904	Air Blow Gun	JAC5098
R.H. Vertical Mower (Single)	69155	Orange Touch-up Paint (12 oz. spray)	554598
L.H. Vertical Mower (Single).....	69156		

2.7 SUPPORT LITERATURE

Contact your Textron Turf Care And Specialty Products dealer for a complete listing of literature.

Safety & Operation Manual	2810360
Parts & Maintenance Manual	2810361
Engine Parts Catalog	3008923
Operator Training Video	5001575
Service & Repair Manual	

3 ADJUSTMENTS

3.1 GENERAL

WARNING

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

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

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

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

cannot be made, contact an authorized Textron Turf Care And Specialty Products dealer.

2. Replace, do not adjust, worn or damaged components.
3. Do not wear jewelry or loose fitting clothing when making adjustments or repairs.

CAUTION

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

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

3.2 OPENING HOOD AND OPERATOR'S PLATFORM

1. To open hood, release latches **(A)** on both sides of the tractor and tilt hood backwards.
2. To open operator's platform:
 - a. Open Hood
 - b. Start engine and lower front reels to the ground. Engage parking brake and shut off engine.
 - c. Release latch **(B)** from the right side of tractor.
 - d. Lift operator's platform to the open position.

WARNING

To prevent injury, never remove the gas springs from the operator's platform without first supporting the platform.

Do not raise front lift arms when the operator's platform is opened. The platform could be forced into the closed position causing bodily injury or damage to operator's platform.

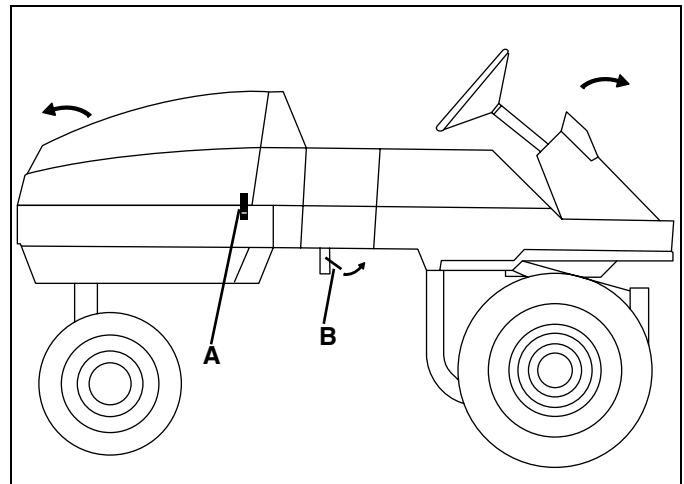


Figure 3A

3.3 MANUAL LOWERING VALVE

1. To lower the front lift arms manually, when the engine is not operating, slowly turn the lift release knobs **(C)** clockwise until mowers are on the ground. Then turn counterclockwise finger tight.
2. Manual Lowering valve can be located behind and above the right front tire.

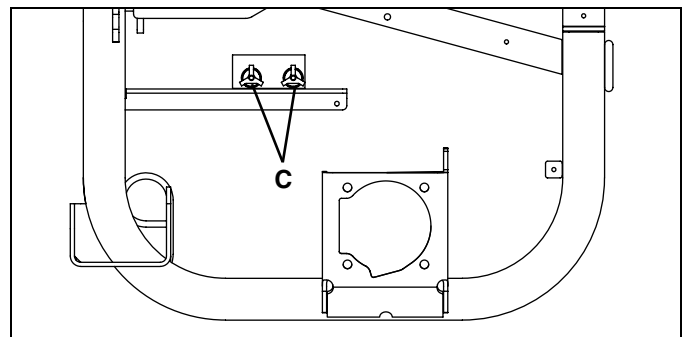


Figure 3B

3.4 ENGINE ALTERNATOR BELT

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

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

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

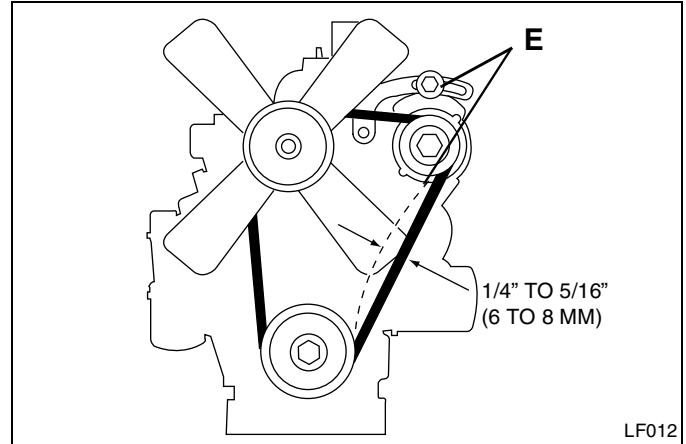


Figure 3C

3.5 REEL DRIVE BELT

The reel drive belts must be readjusted whenever the reel motor is removed.

1. Remove belt cover and make sure the drive belt is properly positioned over the drive motor and reel pulley.

CAUTION

The drive belt is a Kevlar® reinforced belt. To prevent permanent belt damage, do not overtighten, twist, fold or bend the belt. Twisting or bending the belt will permanently damage the chord fibers of the belt.

2. Loosen hardware (F) then gently pry motor upwards. At the same time use your belt tensioning gauge, mid way between the pulleys, to deflect the belt until it just touches the belt housing.
 - a. Place tip of the leaf spring on the gauge flat against the belt and apply force on the motor until the leaf spring just touches the neck of the gauge.
 - b. When the leaf spring touches the gauge, the belt is properly tensioned. Tighten hardware (F).

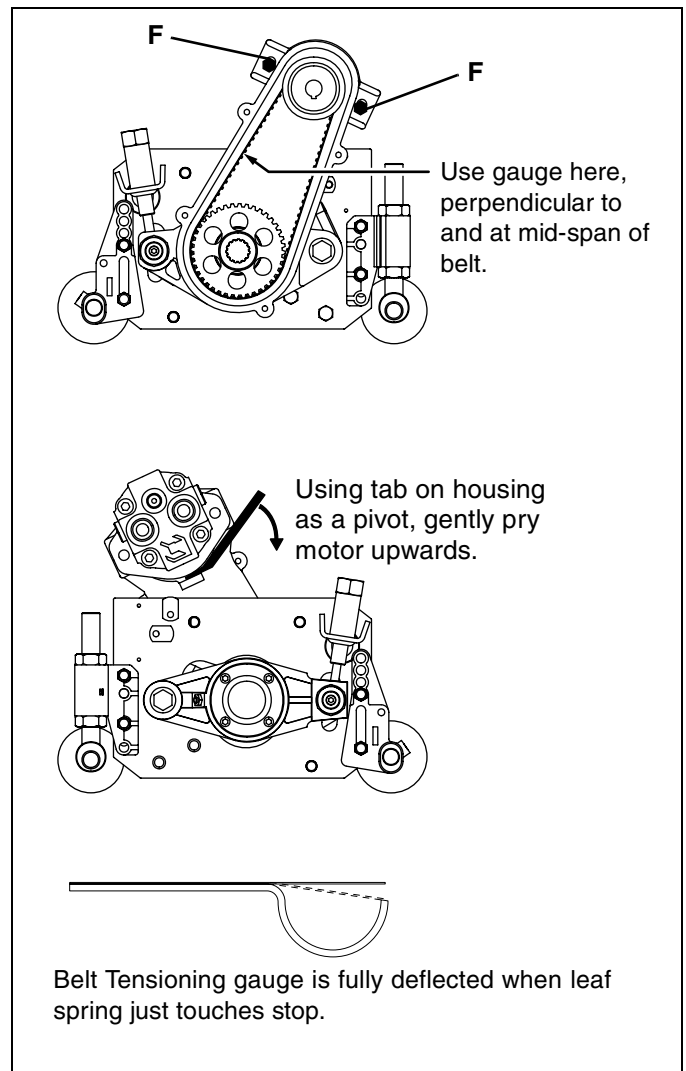


Figure 3D

3 ADJUSTMENTS

3.6 PARKING BRAKE

1. To set brake force: Place brake lever in the disengaged position. sit in the operator's seat and turn knob **(G)** clockwise to increase force. Apply and release brake lever every quarter turn until a force of 36-42 lb (16 - 19 kg), at the base of the adjustment knob is required to set the parking brake.

If a scale is not available for measuring, place tractor in 2WD mode and adjust brake until motor cannot overcome the parking brake.

2. If the knob on the parking brake has been turned to it's maximum extent, new brake pads are required.
3. Brake pads must be replaced when worn to the point that they touch each other above the brake disk.

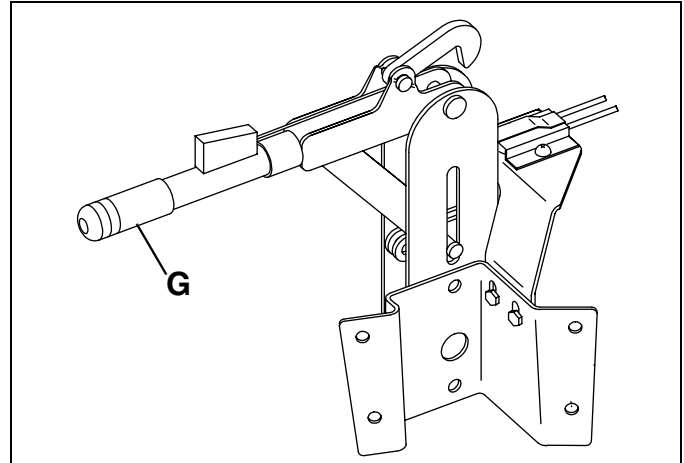


Figure 3E

3.7 PARKING BRAKE SWITCH

This switch is located, under the operator's platform, at the base of the parking brake lever. When parking brake is engaged (Vertical) and handle latch is locked, parking brake switch **(H)** must be closed. Loosen hardware **(I)**, and adjust switch as required until the switch closes when the handle latch locks and opens when brake is disengaged. Tighten hardware **(I)**.

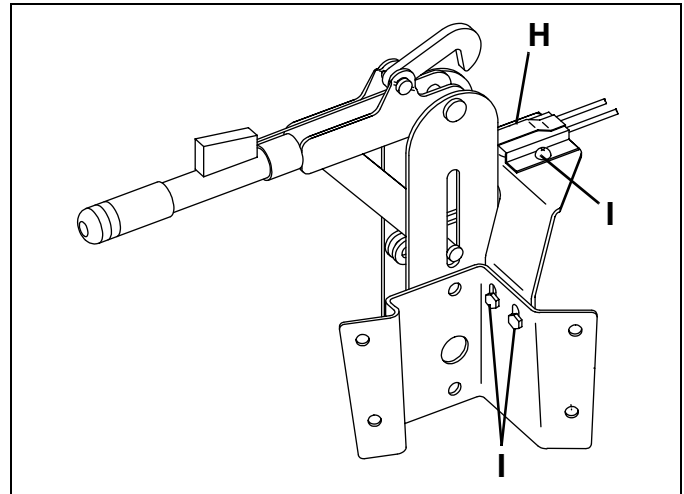


Figure 3F

3.8 STEERING TOE-IN

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

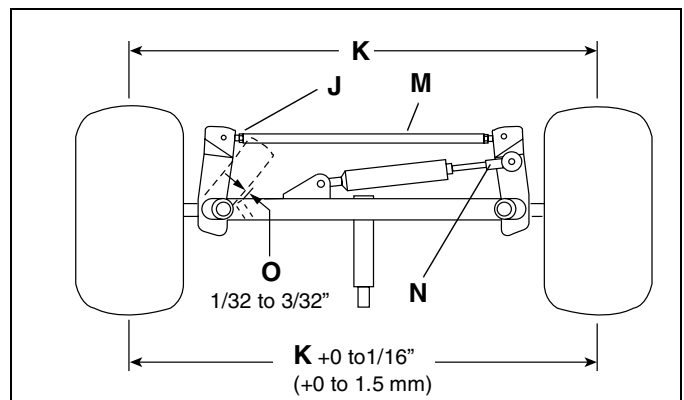


Figure 3G

3.9 NEUTRAL POSITION ADJUSTMENT

If the tractor “creeps” in either direction, the neutral position must be adjusted.

1. Adjust nut **(K)** in 1/16 or 1/8 turn increments.
 - a. To adjust for reverse creep, loosen nut **(J)** and turn nut **(K)** to thread rod **(L)** into rod end **(M)**.
 - b. To adjust for forward creep, loosen nut **(J)** and turn nut **(K)** to thread rod **(L)** out of rod end **(M)**.
2. Close operator’s platform and drive the tractor both forward and reverse on level ground. Return pedal to neutral and check to see if tractor creeps in either direction.
3. Repeat steps 1 and 2 until the tractor no longer creeps.

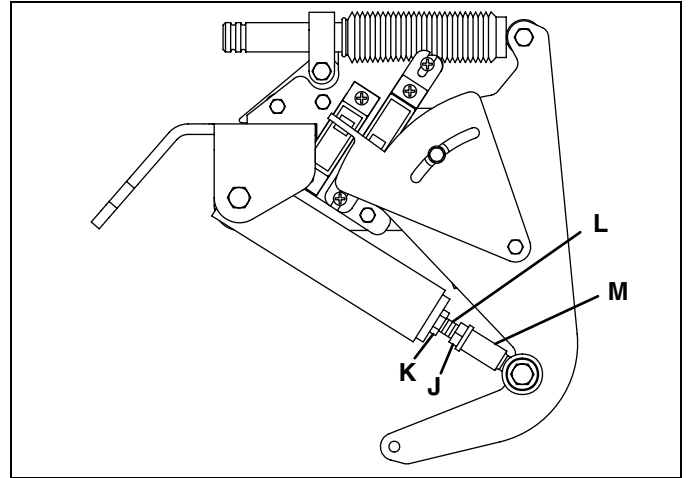


Figure 3H

3.10 NEUTRAL START SWITCH

1. Adjust neutral position before adjusting neutral start switch. Switch must be readjusted whenever neutral position has been changed.
2. Use a Volt/Ohm meter to determine when switch opens or closes.
 - a. Loosen hardware **(N)** and adjust neutral plate **(O)** until switch **(P)** closes. Tighten hardware **(N)**.
 - b. Switch should open when pedal is moved out of neutral in either direction and close when pedal returns to neutral.

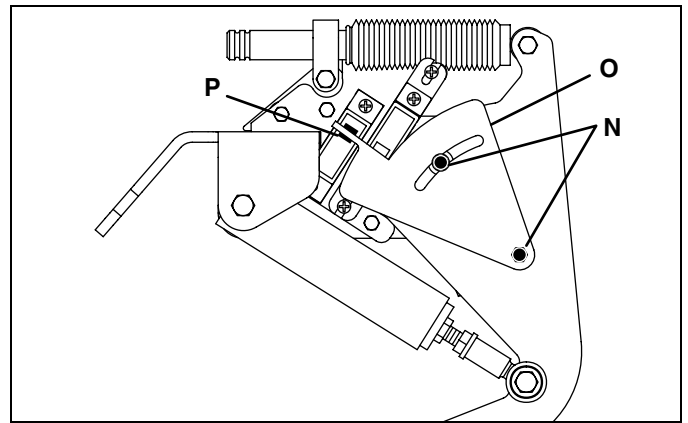


Figure 3I

3.11 4WD REVERSE SWITCH

1. Adjust neutral start switch **(P)** before adjusting 4WD reverse switch **(Q)**.
2. Use a Volt/Ohm meter to determine when switch opens or closes.
 - a. Loosen hardware **(R)** and adjust switch **(Q)** until switch just opens with traction pedal in neutral. Tighten hardware **(R)**.
 - b. Switch should close when pedal is pressed for forward movement and open when pedal is returned to neutral.
 - c. Switch should always be open when pedal is pressed for reverse movement.

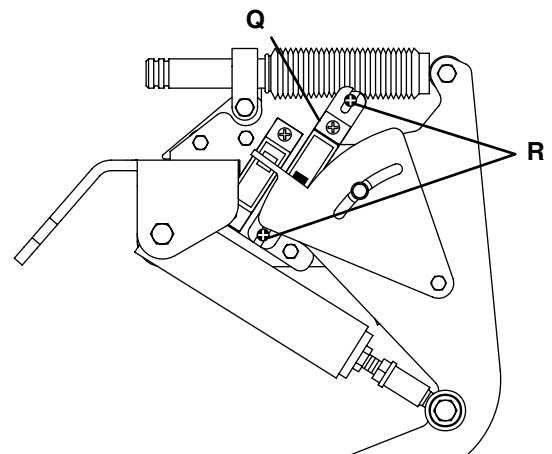


Figure 3J

3 ADJUSTMENTS

3.12 MOW SPEED

Cutting quality is better at speeds well below the transport speed of the tractor. An initial mow speed of 7.5 mph (13.7 kph) is set at the factory and should be satisfactory for most cutting conditions. Local turf conditions however may respond better to a slower speed.

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

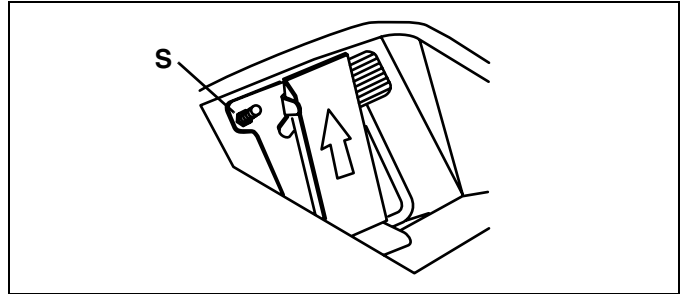



Figure 3K

3.13 LIFT SPRINGS

The lift springs can be adjusted so the exposed bolt thread (**T**) is zero for maximum traction or turned out to it's maximum limits to help the reels follow uneven turf. Do not exceed these values or tractor damage may result

The initial weight setting should be made with the front reels weighing 10 lb (4.5 kg) more than the center and wing reels. Individual adjustment can then be made from this point to fit specific turf conditions.

To disconnect springs for reel removal, fully raise all mowers to transport position and install transport locks. Remove bolt (**T**) from each mower. Remove transport locks and lower the reels to the ground.

 WARNING
To prevent injury, disconnect lift springs before removing mower.
Do not raise front lift arms when the operator's platform is opened. The platform could be forced into the closed position causing bodily injury or damage to operator's platform.

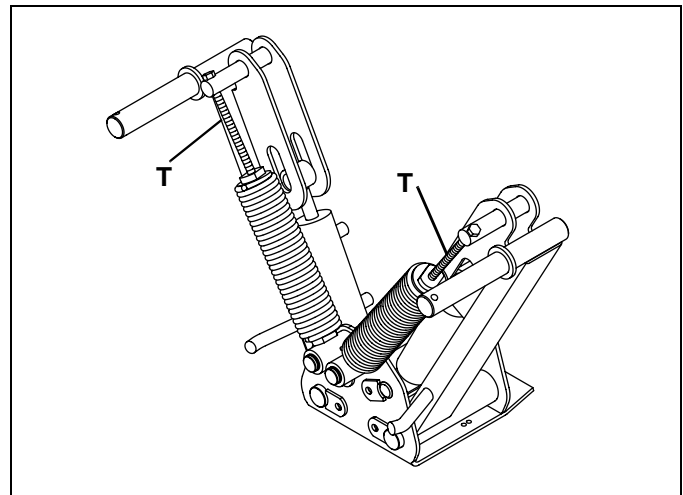


Figure 3L

3.14 LIFT SWITCH

Position Magnets (**V**) so that a gap of 0.010 - 0.050 in. (0.254 - 1.25 mm) is maintained between the switch and magnet for each position.

Use a Volt/Ohm meter to check if lift (**U**) or lower (**W**) switch closes when center handle is moved to corresponding position. Adjust magnets (**V**) as necessary.

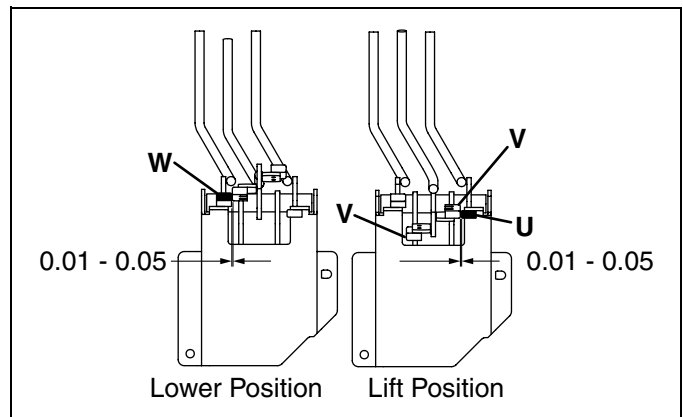


Figure 3M

3.15 REEL TO BEDKNIFE

(Pre-adjustment Check)

1. Check the reel bearings for end play or radial play. If there is any abnormal movement of the reel, up and down or side to side, adjust or replace components as needed.
2. Inspect the reel blades and bedknife to insure good sharp edges without bends or nicks.
 - a. The cutting edges of the reel blades and bedknife must be sharp, free of burrs and show no signs of rounding off.
 - b. The bedknife and bedknife backing must be securely tightened. The bedknife must be straight and sharp.
 - c. A flat surface of 1/16 in. (2 mm) minimum must be maintained on the front face of the bedknife. Use a standard flat file to dress the bedknife.
3. If wear or damage is beyond the point where the reel or bedknife can be corrected by the lapping process, they must be reground.
4. Proper reel-to-bedknife adjustment is critical. A gap of 0.001 to 0.003" (0.025 to 0.076 mm) must be maintained across the entire length of the reel and bedknife.

5. The reel must be parallel to the bedknife. An improperly adjusted reel will lose its sharp edges prematurely and may result in serious damage to the reel and bedknife.
6. Grass conditions will also affect the adjustment.
 - a. Dry, sparse conditions will require a wider gap to prevent heat buildup and damage to the reel and bedknife.
 - b. High quality grass with a good moisture content requires a closer gap (near zero).

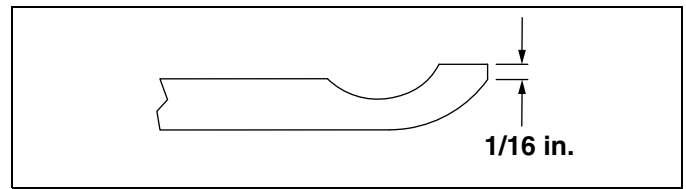


Figure 3N

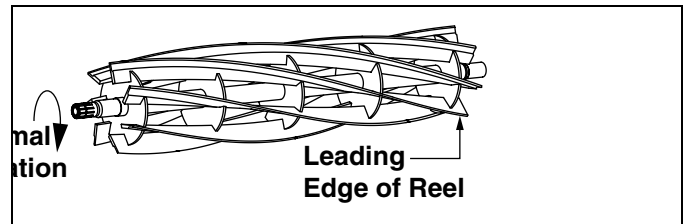


Figure 3O

3.16 REEL TO BEDKNIFE ADJUSTMENT

Read Section 3.15 before making the adjustment.

CAUTION

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

Start adjustment at the leading edge of the reel, followed by the trailing end. *The leading end of the blade is the end that passes over the bedknife first during normal rotation.*

1. Loosen nut (C) 1/4 turn on both ends of the cutting unit.
 - a. Turn adjuster (A) in 1/16 to 1/8 turn increments.
 - b. Slide a feeler gauge or shim stock .001 in. (.025 mm) between the reel blade and the bedknife. Do not turn reel.
 - c. Adjust the trailing end of the reel in the same manner then recheck the adjustment at the leading end.
 - d. Securely tighten all hardware and recheck the adjustment.

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

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

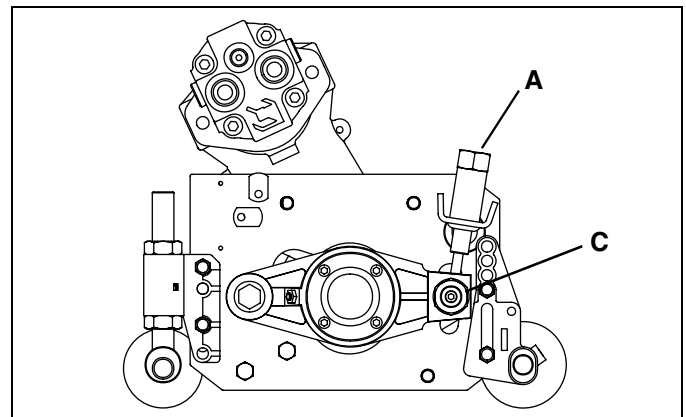


Figure 3P

3 ADJUSTMENTS

3.17 CUTTING MODES

1. The mower may be operated in the **fixed** mode or the **floating** mode.
2. **Fixed** mode height of cut ranges from 3/8 - 2-15/16 in. (9.5 - 75 mm) and the mower does not require a front roller unless the terrain is rough and uneven.

If a front roller is required, the roller should be raised 1/4 in. (6 mm) higher than the rear roller and used for anti-scalp purposes only.

3. **Floating** mode requires a front roller.

If a 2-1/2 in. (63 mm) solid front roller is used, the cutting height will range from 3/8 to 2-1/8 in. (9 to 54 mm).

If a 3 in. (76 mm) grooved front roller (Recommended) is used, the cutting height will range from 3/8 to 2-1/2 in. (9 to 63 mm).

4. To convert the mower from **fixed** to **floating** mode, remove hardware (H) from each side of the five mower frames.

Install a front roller and store hardware (H) for future conversion to fixed mode.

5. To convert the mower from **floating** to **fixed** mode, assemble hardware (H) as shown and remove or raise the front roller.

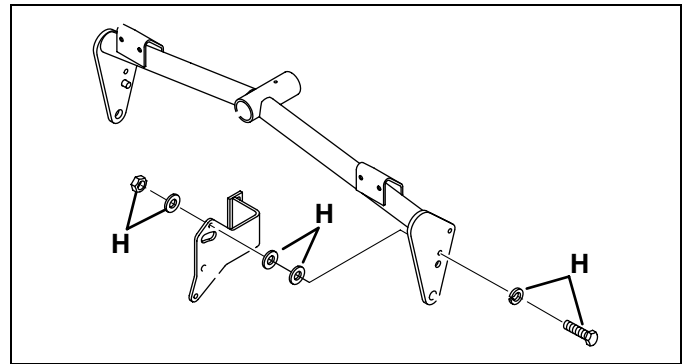


Figure 3Q

3.18 CUTTING HEIGHT - FIXED MODE

1. Reposition the rear roller adjuster.
 - a. For cutting heights from 3/8 to 1-3/4 in. (9 to 44 mm) use holes (M) on the mower frame and two holes (shown in black) of the height adjuster (F) as shown.
 - b. For cutting heights greater than 1-3/4 inches (44 mm) disassemble adjuster (F) and turn the mounting bracket upside down; then use holes (N) of the frame and the two holes (shown in black) of the adjuster (F).
2. Place spacers of the desired height (J) under each end of the reel, adjacent to the front edge of the bedknife.
3. Loosen nut (G) and lower rear roller to the ground. Tighten nut (E) against the adjuster then recheck the setting on both side of the reel. Readjust if necessary.
4. Assemble the front roller adjuster (B) (If a roller is required) to holes number 2 and 4 only of the mower frame. Do not use holes number 1 and 3. Set roller to 1/4 in. (6 mm) above rear roller.

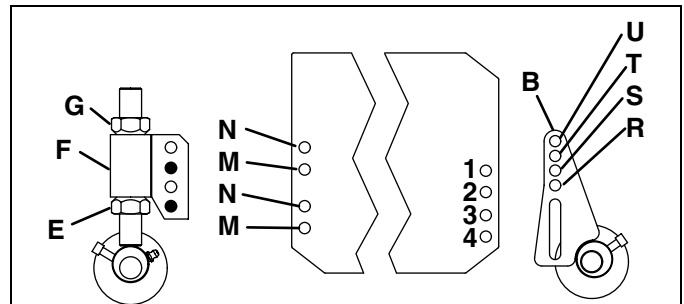


Figure 3R

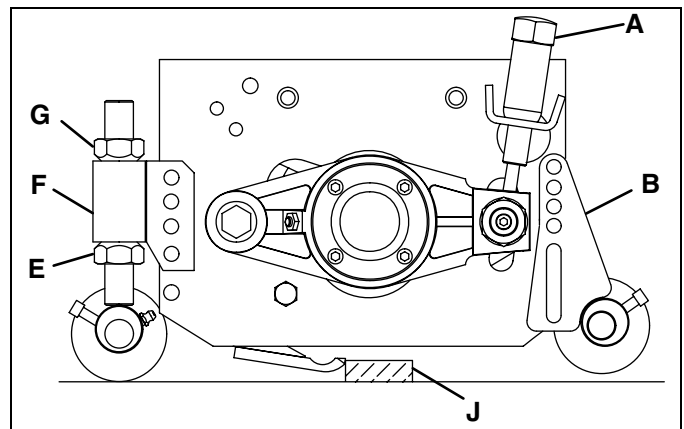


Figure 3S

3.19 CUTTING HEIGHT - FLOATING MODE

1. Assemble the front roller adjuster (B) to holes number 2 and 4 only of the mower frame. Do not use hole numbers 1 and 3. Refer to the chart below for correct hole of front roller adjuster to use.
2. Reposition the rear roller adjusters (F).
 - a. For cutting heights from 3/8 to 1-3/4 in. (9 to 44 mm) use holes (M) on the mower frame and two holes (shown in black) of adjuster (F) as shown.
 - b. For cutting heights greater than 1-3/4 in. (44 mm), disassemble adjuster (F) and turn the mounting bracket upside down; then use holes (N) of the frame and the two holes (shown in black) of adjuster (F).
3. Loosen nut (L) and adjust screw (K) to obtain desired cutting height (X) then lock nut (L) against gauge (P).
4. Place one end of the gauge under the front roller at either end of the reel, and slide the head of screw (K) over the bedknife.
 - a. Adjust nut (G) to lower the rear roller to the gauge, then tighten nut (E) against the adjuster.
 - b. Move the gauge to the other end of the reel and repeat Steps 4a and 4b.

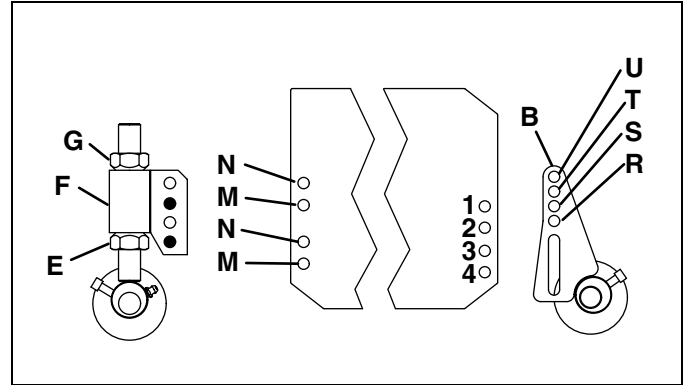


Figure 3T

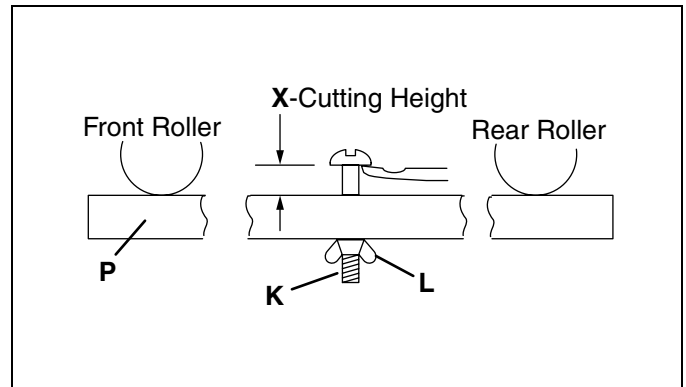


Figure 3U

Range of Cut					
Grooved Roller		Solid Roller		Front	Rear
Inches	Millimeters	Inches	Millimeters		
3/8 - 7/8	10 - 22	3/8 - 5/8	10 - 16	R	M
7/8 - 1-3/8	22 - 35	5/8 - 1-1/8	16 - 29	S	M
1-3/8 - 1-3/4	35 - 44	1-1/8 - 1-5/8	29 - 41	T	M
1-3/4 - 2-1/2	44 - 63	1-5/8 - 2-1/8	41 - 54	U	N

3.20 DEFLECTOR

1. The grass deflectors (Y) need to be adjusted to the grass conditions.
 - a. Install the deflectors upwards when mowing damp grass to prevent accumulation of grass clippings inside the reel housing.
 - b. Install the deflectors downwards when mowing dry grass to prevent discharge from blowing onto operator or tractor.
2. Deflectors may also be adjusted fore and aft to regulate grass discharge.

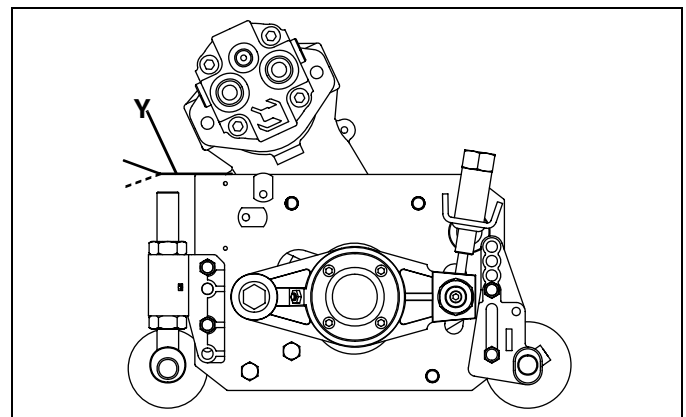


Figure 3V

3 ADJUSTMENTS

3.21 REEL LIMIT SWITCHES

1. Disconnect lift springs. [Section 3.13]
 2. Remove cutting unit from lift arm.
 3. Use a Volt/Ohm meter to determine when the switch opens or closes.
 - a. Adjust magnet **(A)** so switch just opens with lift arm at 20° above the horizontal.
 - b. Switch should close when lift arm is lowered past 20° above horizontal and stay closed for the remainder of the lowering operation.
 - c. Switch should open when lift arm is raised past 20° above horizontal and should remain open for the remainder of the lifting operation.
 - d. Repeat test for each front and wing lift arm.
- Note:** *The limit switches set the point where the reel motors engage or disengage, not how high they will raise.*
4. Reassemble cutting units and lift springs to lift arms.

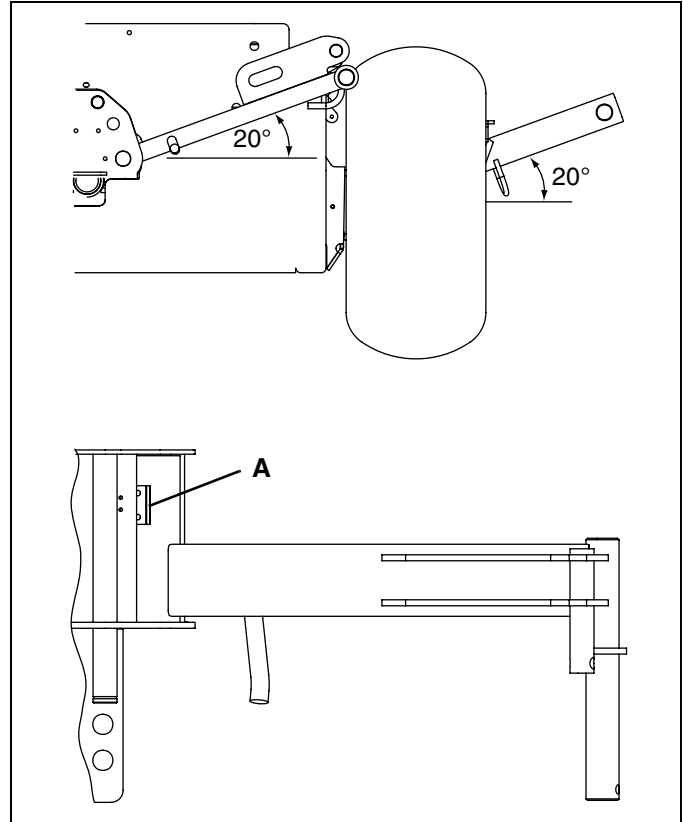






Figure 3W





3.22 TORQUE SPECIFICATION

CAUTION

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Textron Turf Care And Specialty Products 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.**

Textron Turf Care And Specialty Products uses Grade 5 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

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

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

4 MAINTENANCE

4.1 GENERAL

WARNING

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

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

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

4.2 ENGINE

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

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

During the break-in period, Textron Turf Care And Specialty Products recommends the following:

1. During the first 50 hours of operation, a new engine should be allowed to reach an operating temperature of at least 140°F (60°C) prior to operation at full load.
2. Check the engine oil level twice daily during the first 50 hours of operation. Higher than normal oil consumption is not uncommon during the initial break-in period.
3. Change engine oil and oil filter element after first 50 hours of operation.
4. Check and adjust alternator belt.
5. Refer to Section 6.2 and Engine Manual for specific maintenance intervals.

If the injection pump, injectors or the fuel system require service, contact an authorized Textron Turf Care And Specialty Products dealer.

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

4.3 ENGINE OIL

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

Perform initial oil change after first 50 hours of operation and every 100 hours thereafter. See Engine Manual.

Use only engine oils with API classification CD/CE.

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

4.4 AIR FILTER

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

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

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

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

4. Reassemble cap making sure it seals completely around the filter housing.
5. Check all hoses and air ducts. Tighten hose clamps.

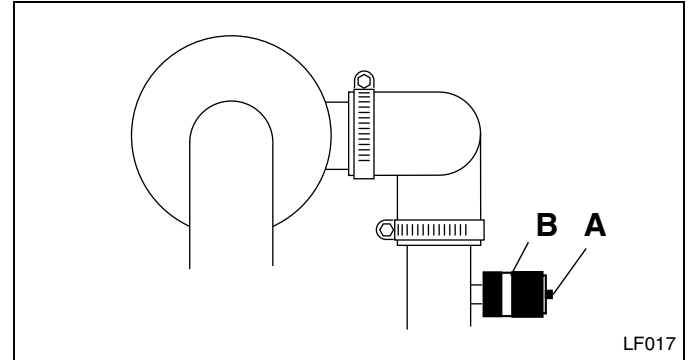



Figure 4A

4.5 FUEL

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

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

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

4.6 FUEL SYSTEM

Refer to Section 6.2 for specific maintenance intervals.

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

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

To change fuel filter:

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

4 MAINTENANCE

4.7 BATTERY

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

CAUTION

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

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

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

Verify battery polarity before connecting or disconnecting the battery cables.

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

WARNING

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

4.8 JUMP STARTING

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

WARNING

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

When connecting jumper cables:

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

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

4.9 CHARGING BATTERY

WARNING

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

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

2. Whenever possible, remove the battery from the tractor before charging. If battery is not sealed, check that the electrolyte covers the plates in all the cells.
3. Make sure the charger is “Off”, then connect the charger to the battery terminals as specified in the charger's manual.
4. Always turn the charger “Off” before disconnecting charger from the battery terminals.

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

4.10 MUFFLER AND EXHAUST

WARNING

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

NEVER operate an engine without proper ventilation.

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

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

4.11 HYDRAULIC HOSES

WARNING

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

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

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.

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

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

4.12 HYDRAULIC OIL

Refer to Section 6.2 for specific maintenance intervals.

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

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

To change hydraulic oil:

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
2. Remove drain plug from bottom of tank.
3. After oil has drained install drain plug and fill with Textron Turf Care And Specialty Products Hydraulic oil.
4. Purge air from system.
 - a. To prevent reels from overheating, disconnect motors from reels.
 - b. Operate all tractor functions at a reduced engine speed for about 5 minutes to purge air out of the system and stabilize the oil level. During this time, the oil level alarm may sound.
 - c. Once the level has stabilized and the air is purged, fill the tank to the full mark on dipstick. Start engine and check that oil alarm remains off.

4 MAINTENANCE

4.13 HYDRAULIC FILTERS

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

Note: During cold weather the charge filter light may come on until oil has warmed up to operating temperature. Wait until oil has warmed up and light goes out before operating tractor.

To replace hydraulic filters:

1. Remove the old filters.
2. Install new filters. Hand tighten only.
3. Operate engine at idle speed with hydraulic system in neutral for five minutes. The oil level alarm may sound during this time.

4. Check hydraulic oil level in reservoir and fill to full mark on dipstick.

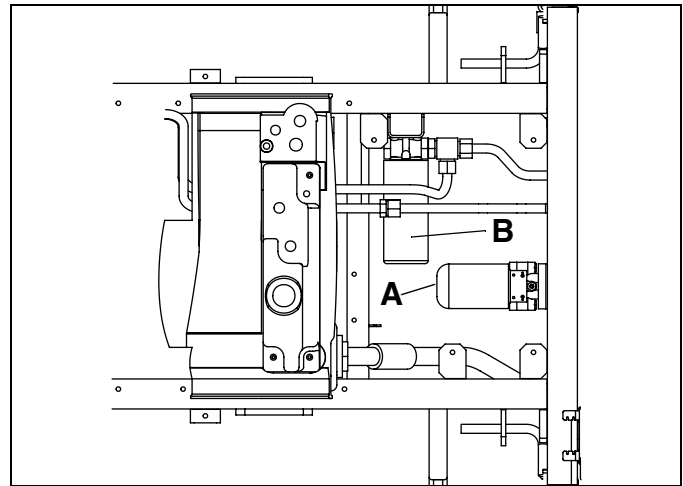


Figure 4B

4.14 ELECTRICAL SYSTEM

CAUTION

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

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

1. Make certain all terminals and connections are clean and properly secured.

2. Check the operator backup system and circuit breakers regularly.

If the operator backup does not function properly and the problem cannot be corrected, contact an authorized Textron Turf Care And Specialty Products dealer.

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

4.15 ROLLOVER PROTECTION STRUCTURE (ROPS)

A Rollover Protection System (ROPS), designed for this tractor, is available as an optional accessory. If your tractor is equipped with this device, 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 Parts Catalog.

4.16 RADIATOR

 **WARNING**

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

 **CAUTION**

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

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

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

Mix clean water with ethylene glycol based anti-freeze at a 50/50 mixture ratio or for the coldest ambient temperature. Read and follow the instructions on the anti-freeze container and engine manual.

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

To clean radiator:

1. Use a blow gun to clean the radiator and oil cooler fins.
Note: A panel located under the radiator can be opened to allow dirt and debris to fall through frame.
2. Check and tighten the fan belt. Replace clamps and hoses every two years.
3. If you have to add coolant more than once a month, or add more than one quart at a time, have a Textron Turf Care And Specialty Products dealer check the cooling system.

4.17 CARE AND CLEANING

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

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

1. Use compressed air to clean engine and radiator fins. A special blow gun is available through Textron Turf Care And Specialty Products Dealer.
2. Use only fresh water for cleaning your equipment.

Note: 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 or rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.

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

 **CAUTION**

Clean grass and debris from cutting units, drives, 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 MAINTENANCE

4.18 BACKLAPPING

WARNING

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

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

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

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

To backlap:

1. Lower reels to the ground, disengage all drives, engage parking brake and shut off the engine.
2. Adjust the reel to bedknife.
3. Set main reel switch, and individual reel switches to OFF.
4. Open the operator's platform and set the backlap switch to "Backlap".
5. Close platform, start the engine, set the throttle to SLOW and the main reel switch to ON.
 - a. Set reel switch to REVERSE rotation for reel being lapped.
 - b. Adjust the backlap speed controls. The center and front mowers use backlap valve **(A)** at the left front of the tractor. The wing mowers use valve **(B)** above and behind the left front tire.
 - c. Apply lapping compound with a long handled brush along the entire length of the reel. A 180 grit compound is recommended.
- d. Continue lapping, and at the same time make a fine adjustment on the reel and bedknife until there is a uniform clearance along the full length of the cutting edges.
6. Repeat the entire process for each of the other reels. Carefully and thoroughly remove all lapping compound from reel and bedknife before running reel in forward direction.
7. Disengage all reel switches. Shut off engine and set backlap switch to MOW or forward rotation.

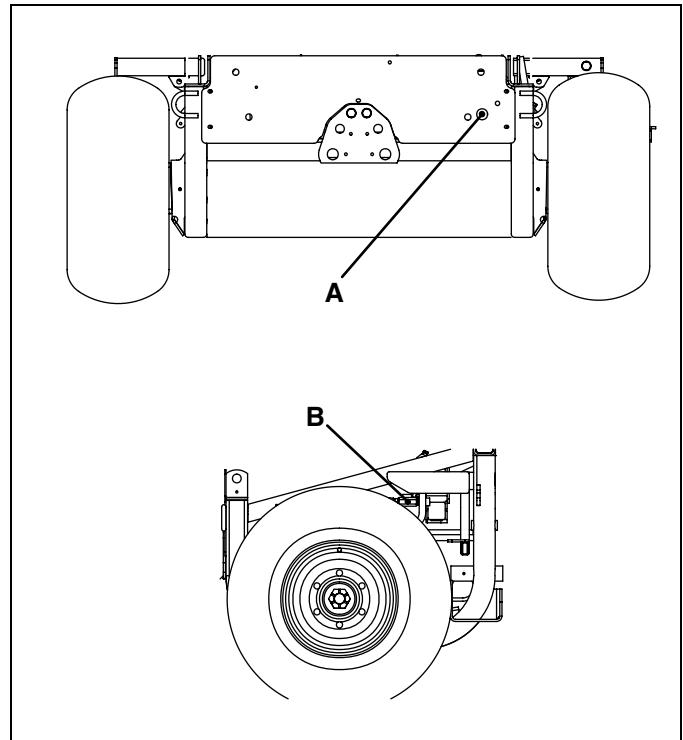


Figure 4C

4.19 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
2. Check pressure every 50 hours or once a month. Use an accurate, low pressure tire gauge.
3. Keep tires inflated to:
Front 10-12 psi (69 -87 kPa)
Rear 8-10 psi (55 - 69 kPa)

CAUTION

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

4.20 WHEEL MOUNTING PROCEDURE

WARNING

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

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

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

4.21 STORAGE

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

Battery

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

Engine

1. While the engine is warm, remove drain plug, drain the oil from the crankcase and change oil filter. Install drain plug and refill with fresh oil. Torque drain plug to 22 ft. lb. (30 Nm).
2. Clean exterior of engine. Paint exposed metal or apply a light coat of rust preventative oil.
3. Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.
4. 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.
3. Backlap the reels, then back the reel away from the bedknife. Apply a light coat of rust preventative oil to the sharpened edges of the reel and bedknife.

CAUTION

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

After Storage

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

WARNING

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

5 TROUBLESHOOTING

5.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information regarding the hydraulic and electrical systems contact your area Textron Turf Care And Specialty Products dealer.

Symptoms	Possible Causes	Action	Section Ref.
Engine will not start.	<ol style="list-style-type: none"> 1. Parking brake disengaged, traction pedal not in neutral or mow switch on. 2. Battery low on charge or defective. 3. Fuel tank empty or dirty. 4. Circuit breaker tripped. 5. Relay defective 6. Neutral switch on traction pedal out of adjustment or defective. 	<ol style="list-style-type: none"> 1. Check Interlock System and start-up procedure. 2. Inspect condition of battery and battery connections. 3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 4. Reset breaker 5. Test and replace relay. 6. Adjust or replace switch. 	<p>4.7, 4.9</p> <p>4.5, 4.6</p> <p>3.9</p>
Engine hard to start or runs poorly.	<ol style="list-style-type: none"> 1. Fuel level low, fuel or fuel filter dirty. 2. Air cleaner dirty. 3. Injectors, fuel pump 4. Engine problem. 	<ol style="list-style-type: none"> 1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 2. Inspect and replace air filter. 3. Consult engine manual. 4. Consult engine manual 	<p>4.5, 4.6</p> <p>4.4</p>
Engine stops.	<ol style="list-style-type: none"> 1. Fuel tank empty. 2. Interlocks not set before leaving operator's seat. 	<ol style="list-style-type: none"> 1. Fill with fresh fuel and bleed fuel lines. 2. Engage parking brake and set mow switch to OFF. 	<p>4.5, 4.6</p>
Engine overheating	<ol style="list-style-type: none"> 1. Coolant level low. 2. Air intake restricted. 3. Water pump belt broken or loose. 	<ol style="list-style-type: none"> 1. Inspect and add coolant. 2. Clean air intake at radiator. 3. Tighten or replace belt. 	<p>4.16</p> <p>4.16</p> <p>3.4</p>
<p>Battery not holding charge.</p> <p>Battery light on.</p>	<ol style="list-style-type: none"> 1. Loose or corroded battery terminals. 2. Low electrolyte. 3. Alternator belt loose or broken. 4. Charging system defective. 	<ol style="list-style-type: none"> 1. Inspect and clean terminals 2. Refill to correct level. 3. Tighten or replace belt 4. See engine manual 	<p>4.7</p> <p>4.7</p> <p>3.4</p>
Cutting units not cutting evenly	<ol style="list-style-type: none"> 1. Cutting heights not set evenly. 2. Engine speed too low. 3. Mow speed not adjusted for turf conditions. 4. Reel Switch set to backlap 5. Reel to bedknife out of adjustment 	<ol style="list-style-type: none"> 1. Check and adjust cutting height. 2. Check engine speed. Run engine at full throttle. 3. Adjust mow speed for best cut. 4. Set switch for forward rotation 5. Adjust reel to bedknife. 	<p>3.18, 3.19</p> <p>3.12</p>

5.2 GREENSENTRY TROUBLE SHOOTING

1. Power Check

Symptom: GreenSentry light not lit during lift/lower cycle and horn does not sound with GreenSentry switch in OFF/TEST position.

Test and Remedy: Check all connections and terminals at the instrument panel, relay panel, horn, battery and hydraulic reservoir. Check battery condition. Check GreenSentry bulb.

2. Horn Check

Symptom: GreenSentry light lit for more than 3 minutes without horn sounding, or horn does not sound with GreenSentry switch in OFF/TEST position.

Test and Remedy: Unplug wires from flow switch (A). Turn ignition to RUN. Connect jumper wire across flow switch connector. GreenSentry light should illuminate. Wait about three minutes and unplug jumper wire.

If GreenSentry light remains lit after removing jumper wire and horn does not sound, replace horn.

3. Float Switch Check

Symptom: GreenSentry light remains lit, horn sounds, but no leak is detected.

Test and Remedy: Remove float switch (C). Check that oil level is full in main tank. Fill tank if necessary. Reinstall float switch and turn ignition to RUN

If symptom remains, unplug float switch from wire harness. Turn ignition to RUN and if symptoms stop, replace float switch.

If problem still exists, remove, disassemble and clean flow switch (A).

4. Flow Switch Check

Symptom: GreenSentry light not lit during lift/lower cycle. Horn sounds with GreenSentry switch in OFF/TEST position.

Test and Remedy: Check GreenSentry bulb. Oil level in tank is low. Flow switch (A) needs cleaning.

Add oil. Clean flow switch. Replace bulb.

5. Temperature Sender and Timer Check

Note: Ignition must be in RUN position for all tests.

Symptom: Horn sounds with GreenSentry switch in OFF/TEST position, but does not sound when GreenSentry light lit.

Test and Remedy: Unplug wires from flow switch (A). Turn ignition to RUN. Connect jumper wire across flow switch connector and measure time from when GreenSentry light illuminates until horn sounds. If the oil temperature is 70°F (21°C), the time span should be about 35 seconds.

Replace temperature sender (B) if the time span is off by more than 5 - 10 seconds.

Replace GreenSentry module if horn does not sound.

6. GreenSentry Leak Detection Check

Symptom: Horn sounds with GreenSentry switch in OFF/TEST position, but does not sound when GreenSentry light lit.

Test and Remedy: Unplug wires from flow switch (A) and float switch (C). Connect jumper wire across flow switch connector. GreenSentry light should illuminate. Connect a jumper wire across flow switch connectors. Horn should sound instantly and the GreenSentry light will latch on.

Replace GreenSentry module if above conditions do not occur.

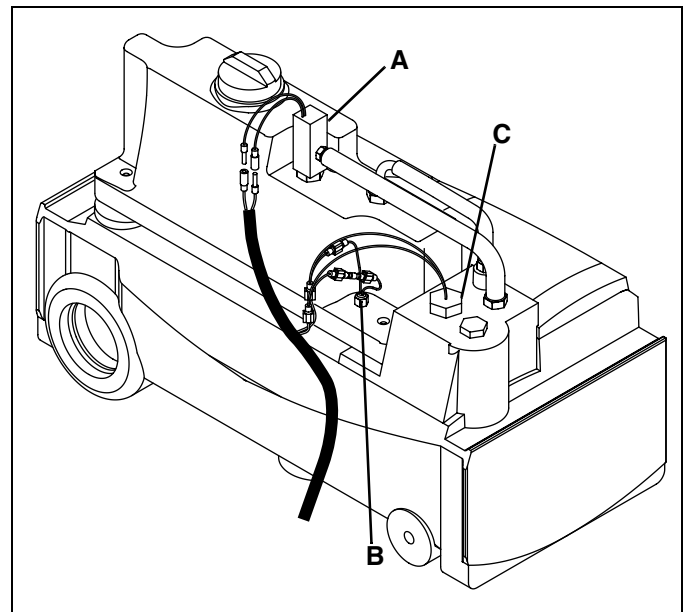


Figure 5A

6 MAINTENANCE & LUBRICATION CHARTS

6.1 GENERAL



WARNING

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

1. Always clean grease fittings before and after lubrication.
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air.
3. For smooth operation of pivot points and other friction points, apply several drops of SAE 30 oil every 50 hours or as required.
4. Remove wheels and repack bearings once a year.

6.2 MAINTENANCE CHART

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Every 400 Hours	Every 500 Hours	Every 1000 Hours	Yearly	See Section	Lubricant Type
Air Cleaner	I							R	4.4	
Battery Charge			I						4.9	
Belt (Alternator)	I-A*		I-A			R			3.4	
Brake		I-A*		A					3.6	
Cooling System	I-C-A							R	4.16	
Engine Oil		R*	R						4.2	
Engine Oil Filter		R*	R						4.3	
Fuel Lines and Clamps		I								
Fuel Filter					R				4.6	
Grease Fittings - F1		L							6.3	II
Grease Fittings - F2		L							6.3	II
Grease Fittings - F3			L						6.3	III
Hydraulic Hoses and Tubes	I***			I					4.11	
Hydraulic Oil		I-A					R**		4.12	IV
Hydraulic Oil Filters		R*				R-AR			4.13	
Muffler and Exhaust				I					4.10	
Radiator Screens	I-C/AR								4.16	
Tires	I-A								4.19	
Steering System		I*		I-A						
Wheel Bearings								L		I
Wiring		I*		I					4.14	

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

* Indicates initial service for new machines.

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

** Or every two years whichever comes first.

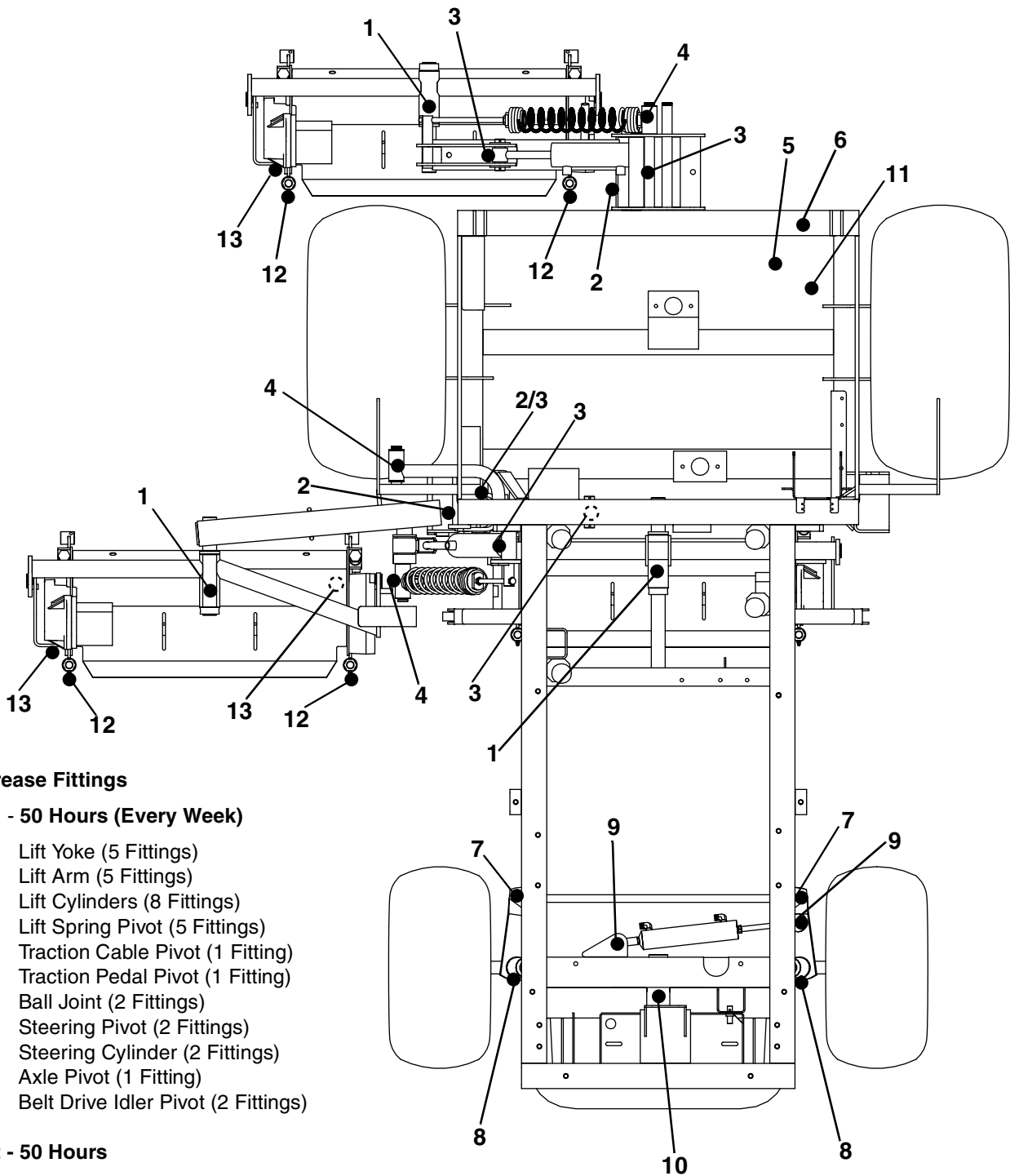
I Pack bearings with NLGI Grade 2 (Service Class GB)

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

III Manual grease gun with Multipurpose lithium or moly 2 EP grease

IV Textron Turf Care And Specialty Products Hydraulic Oil - SAE 10W30 or GreensCare 68

6.3 LUBRICATION CHART



Grease Fittings

F1 - 50 Hours (Every Week)

- 1 Lift Yoke (5 Fittings)
- 2 Lift Arm (5 Fittings)
- 3 Lift Cylinders (8 Fittings)
- 4 Lift Spring Pivot (5 Fittings)
- 5 Traction Cable Pivot (1 Fitting)
- 6 Traction Pedal Pivot (1 Fitting)
- 7 Ball Joint (2 Fittings)
- 8 Steering Pivot (2 Fittings)
- 9 Steering Cylinder (2 Fittings)
- 10 Axle Pivot (1 Fitting)
- 11 Belt Drive Idler Pivot (2 Fittings)

F2 - 50 Hours

- 12 Rear Reel Adjusters (10 Fittings)

F3 - 100 Hours

- 13 Reel Bearing Housings (10 Fittings)

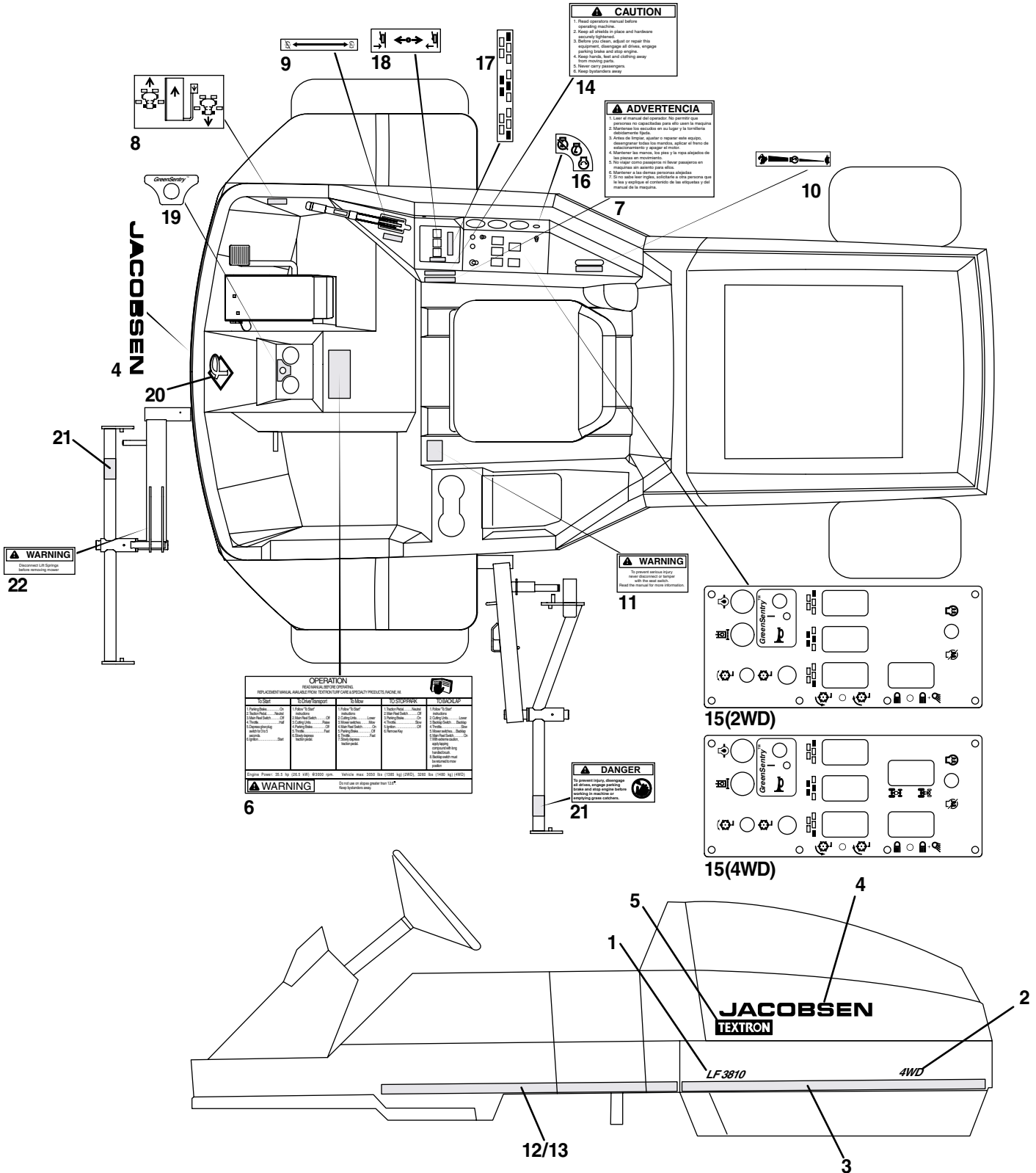
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1.1 External Decals

Serial No. 67827 - 1601 ~ 1999

Serial No. 67828 - 1601 ~ 2434

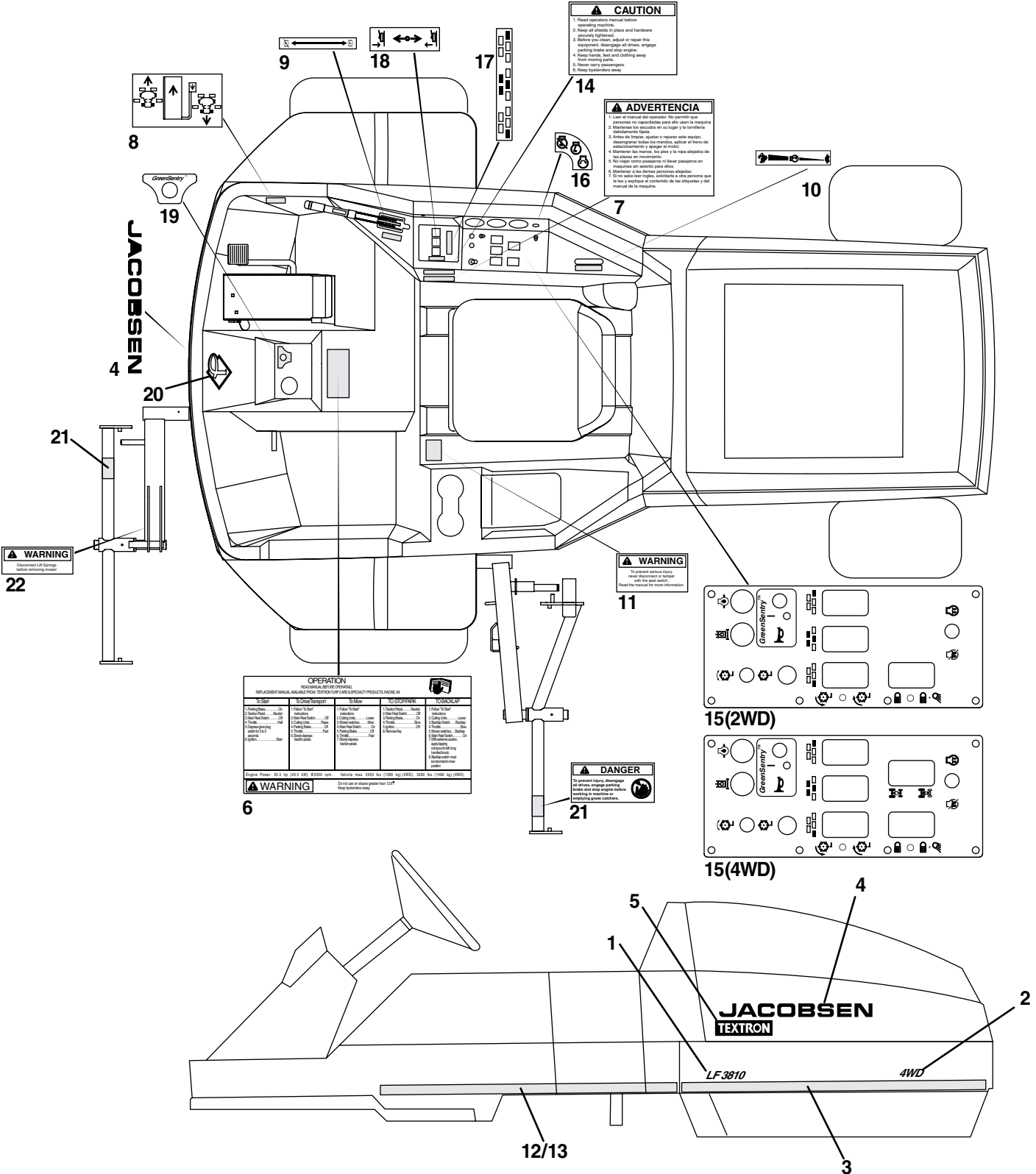


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3007948	2	Decal, LF-3810	4WD Units Only
2	3008327	2	Decal, 4WD	
3	3008044	2	Decal, Rear Blue Stripe	
4	3007505	3	Decal, Jacobsen	
5	3007514	2	Decal, Textron	
6	3002381	1	Decal, Operating Instructions	
7	340623	1	Decal, Spanish General Warning	
8	3002346	1	Decal, Traction Pedal	
9	3002054	1	Decal, Parking Brake	
10	3002051	1	Decal, Throttle	
11	365339	1	Decal, Seat Warning	
12	3008046	1	Decal, Left Side Blue Stripe	
13	3008047	1	Decal, Right Side Blue Stripe	
14	361854	1	Decal, General Warning	
15	4104660	1	Decal, Instrument Panel	2WD Units
15	3002347	1	Decal, Instrument Panel	4WD Units
16	3002057	1	Decal, Ignition Switch	
17	3002345	1	Decal, Mower Lift/Lower	
18	3002375	1	Decal, Lift/Lower	
19	3002380	1	Decal, GreenSentry	
20	3007129	1	Emblem, Diamond J	
21	361877	6	Decal, Reel Danger	
22	361947	3	Decal, Lift Spring Warning	

> Change from previous revision

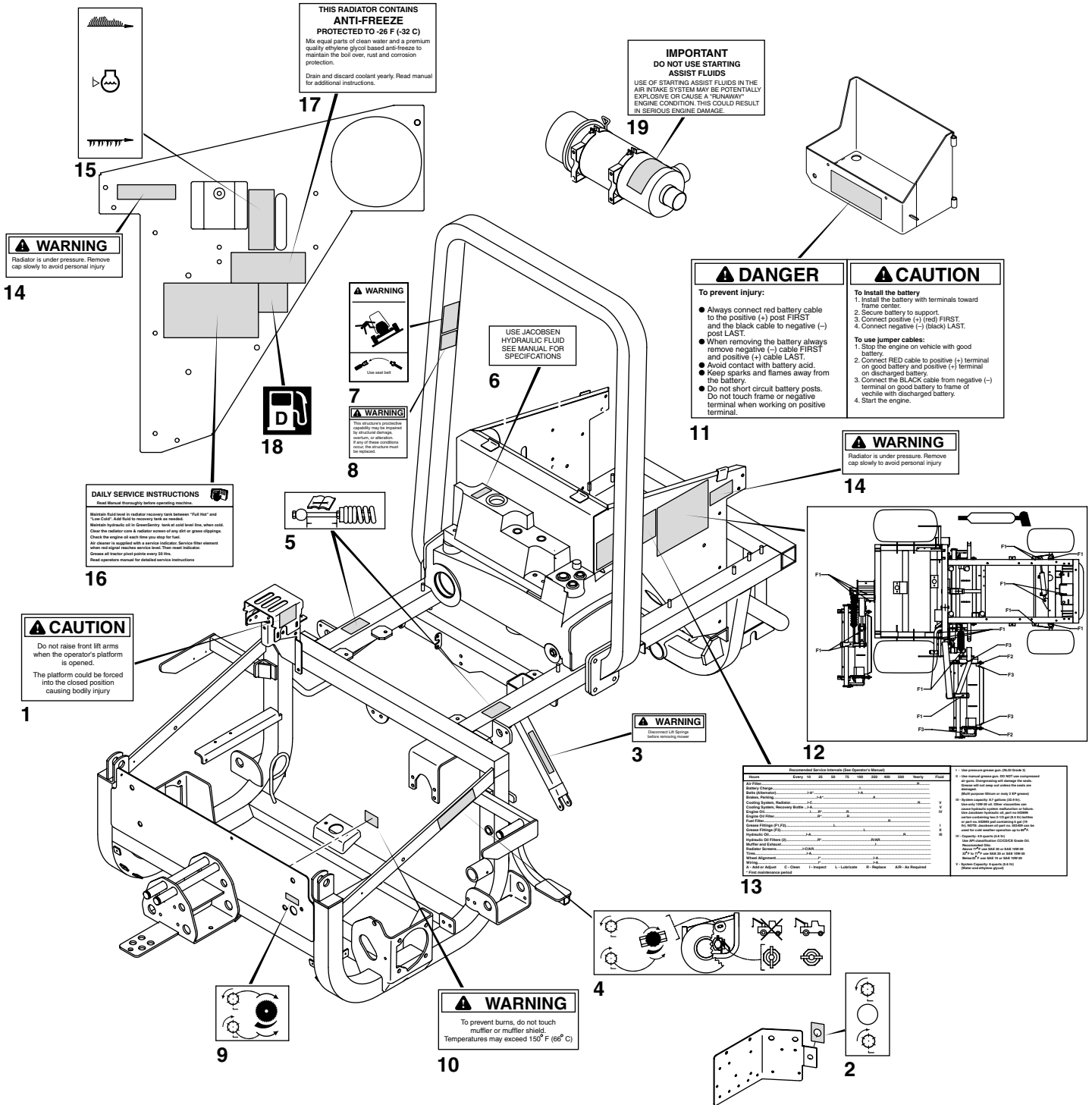
1.2 External Decals

Serial No. 67827 - 2000 and Up
Serial No. 67828 - 2435 and Up



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3007948	2	Decal, LF-3810	4WD Units Only
2	3008327	2	Decal, 4WD	
3	3008044	2	Decal, Rear Blue Stripe	
4	3007505	3	Decal, Jacobsen	
5	3007514	2	Decal, Textron	
6	3002381	1	Decal, Operating Instructions	
7	340623	1	Decal, Spanish General Warning	
8	3002346	1	Decal, Traction Pedal	
9	3002054	1	Decal, Parking Brake	
10	3002051	1	Decal, Throttle	
11	365339	1	Decal, Seat Warning	
12	3008046	1	Decal, Left Side Blue Stripe	
13	3008047	1	Decal, Right Side Blue Stripe	
14	361854	1	Decal, General Warning	
15	4104660	1	Decal, Instrument Panel	2WD Units
15	3002347	1	Decal, Instrument Panel	4WD Units
16	3002057	1	Decal, Ignition Switch	
17	3002345	1	Decal, Mower Lift/Lower	
18	3002375	1	Decal, Lift/Lower	
19	3002380	1	Decal, GreenSentry	
20	3007129	1	Emblem, Diamond J	
21	361877	6	Decal, Reel Danger	
22	361947	3	Decal, Lift Spring Warning	

> Change from previous revision



THIS RADIATOR CONTAINS ANTI-FREEZE PROTECTED TO -28 F (-32 C)
 Mix equal parts of clean water and a premium quality ethylene glycol based anti-freeze to maintain the boil over, rust and corrosion protection.
 Drain and discard coolant yearly. Read manual for additional instructions.

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

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

WARNING
 Use seal ball

WARNING
 This structure's protective coating may be exposed to structural damage, rust, or corrosion. If any of these conditions occur, the structure must be repainted.

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

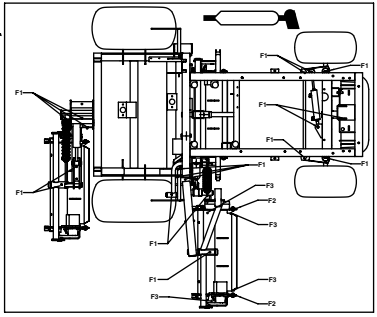
CAUTION
 To install the battery
 1. Install the battery with terminals toward frame center.
 2. Secure battery to support.
 3. Connect positive (+) (red) FIRST.
 4. Connect negative (-) (black) LAST.
 To use jumper cables:
 1. Stop the engine on vehicle with good battery.
 2. Connect RED cable to positive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

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

DAILY SERVICE INSTRUCTIONS
 Read Manual thoroughly before operating machine.
 Maintain full level in radiator reservoir tank between "Full Hot" and "Low Cold". Add fluid to reservoir tank as needed.
 Insulation system will be damaged if water enters the, when cold.
 Check the radiator cap & radiator access of any dirt or grease buildup.
 Check the engine oil each time you stop for fuel.
 An oiler is supplied with a service indicator. Service filter element when red signal reaches service line. Check water indicator.
 Grease all tractor pivot points every 50 hrs.
 Read operator manual for detailed service instructions.

CAUTION
 Do not raise front lift arms when the operator's platform is opened.
 The platform could be forced into the closed position causing bodily injury.

WARNING
 Do not touch battery terminals



Recommended Service Intervals (See Operator's Manual)

Item	Every 100	250	500	1000	2000	4000	8000	16000	32000	64000	128000
Oil Change	A										
Battery Charge											
Water Level											
Hydraulic Oil											
Grease System											
Clutch System											
Control System											
Engine Oil											
Fuel Filter											
Water Filter (P/F)											
Grease Filter (P/F)											
Hydraulic Oil											
Water and Fuel											
Radiator Service											
Wheel Alignment											
Brake											
Wiring											
Flare											

A - Add or Adjust C - Clean I - Inspect L - Lubricate R - Replace NR - Not Required
 * If two consecutive intervals are marked.

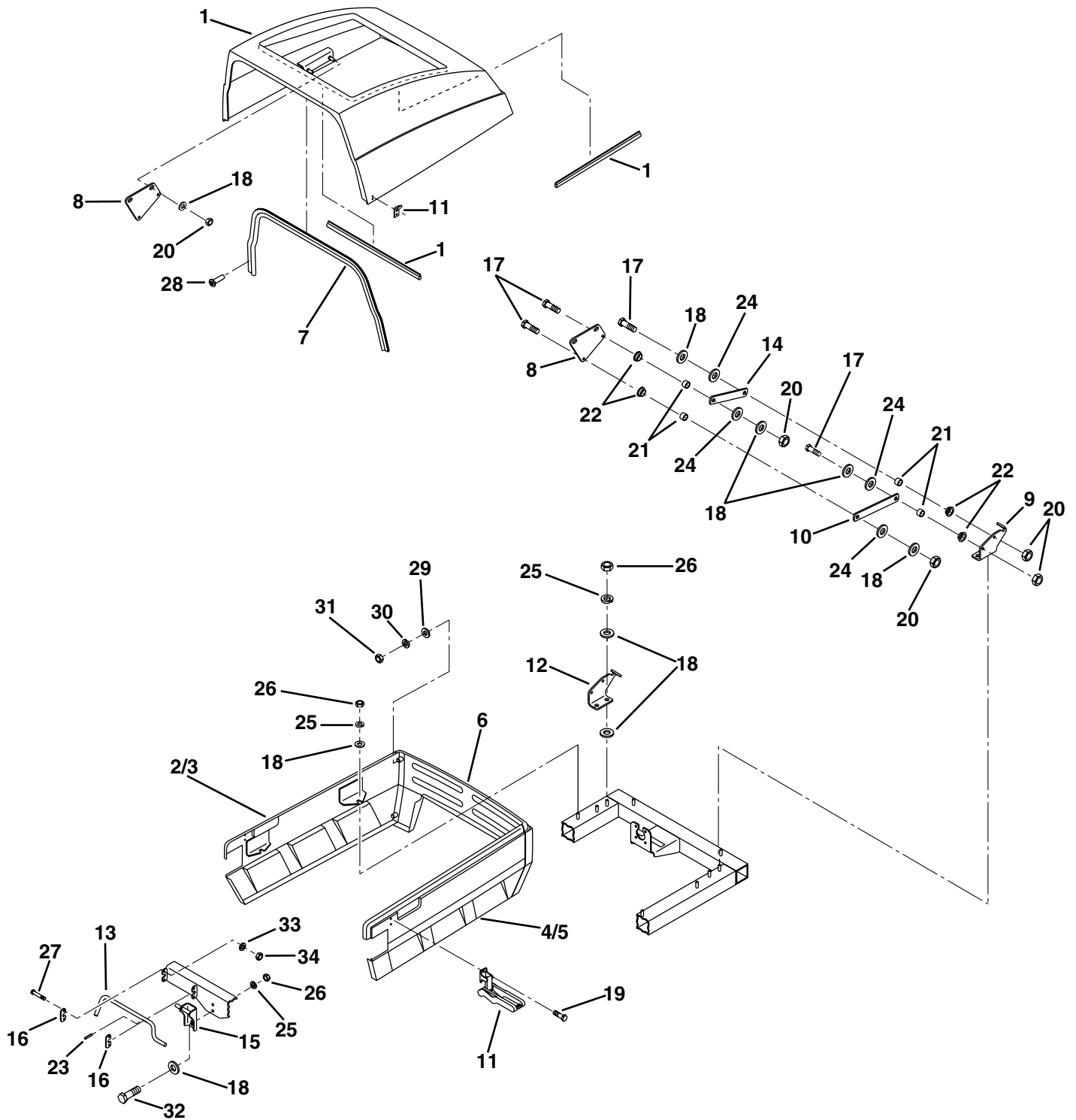
1 - Use green grease gun (200 lbs max)
 2 - Use green grease gun (200 lbs max) and green grease gun (200 lbs max) for engine oil.
 3 - Use green grease gun (200 lbs max) for engine oil.
 4 - Use green grease gun (200 lbs max) for engine oil.
 5 - Use green grease gun (200 lbs max) for engine oil.
 6 - Use green grease gun (200 lbs max) for engine oil.
 7 - Use green grease gun (200 lbs max) for engine oil.
 8 - Use green grease gun (200 lbs max) for engine oil.
 9 - Use green grease gun (200 lbs max) for engine oil.
 10 - Use green grease gun (200 lbs max) for engine oil.
 11 - Use green grease gun (200 lbs max) for engine oil.
 12 - Use green grease gun (200 lbs max) for engine oil.
 13 - Use green grease gun (200 lbs max) for engine oil.
 14 - Use green grease gun (200 lbs max) for engine oil.
 15 - Use green grease gun (200 lbs max) for engine oil.
 16 - Use green grease gun (200 lbs max) for engine oil.
 17 - Use green grease gun (200 lbs max) for engine oil.
 18 - Use green grease gun (200 lbs max) for engine oil.
 19 - Use green grease gun (200 lbs max) for engine oil.

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

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3000075	1	Decal, Platform Caution	
2	3002363	1	Decal, Backlap	
3	361947	2	Decal, Lift Spring Warning	
4	3005122	1	Decal, Tow and Backlap Valves	
5	3005441	2	Decal, Wing Lift Spring Adjustment	
6	352487	1	Decal, Hydraulic Fluid	
7	557843	1	Decal, Seat Belt Warning	4WD Units Only
8	557844	1	Decal, Structure Warning	4WD Units Only
9	3005379	1	Decal, Backlap Valve	
10	339237	1	Decal, Heat Warning	
11	336640	1	Decal, Battery Danger and Caution	
12	3005277	1	Decal, Lubrication	
13	3006279	1	Decal, Service Intervals	
14	365956	2	Decal, Radiator Cap Warning	
15	3005322	1	Decal, Coolant Level	
16	340609	1	Decal, Daily Service	
17	363995	1	Decal, Antifreeze	
18	3002309	1	Decal, Diesel Fuel	
19	3000435	1	Decal, Start Assist Fluids	

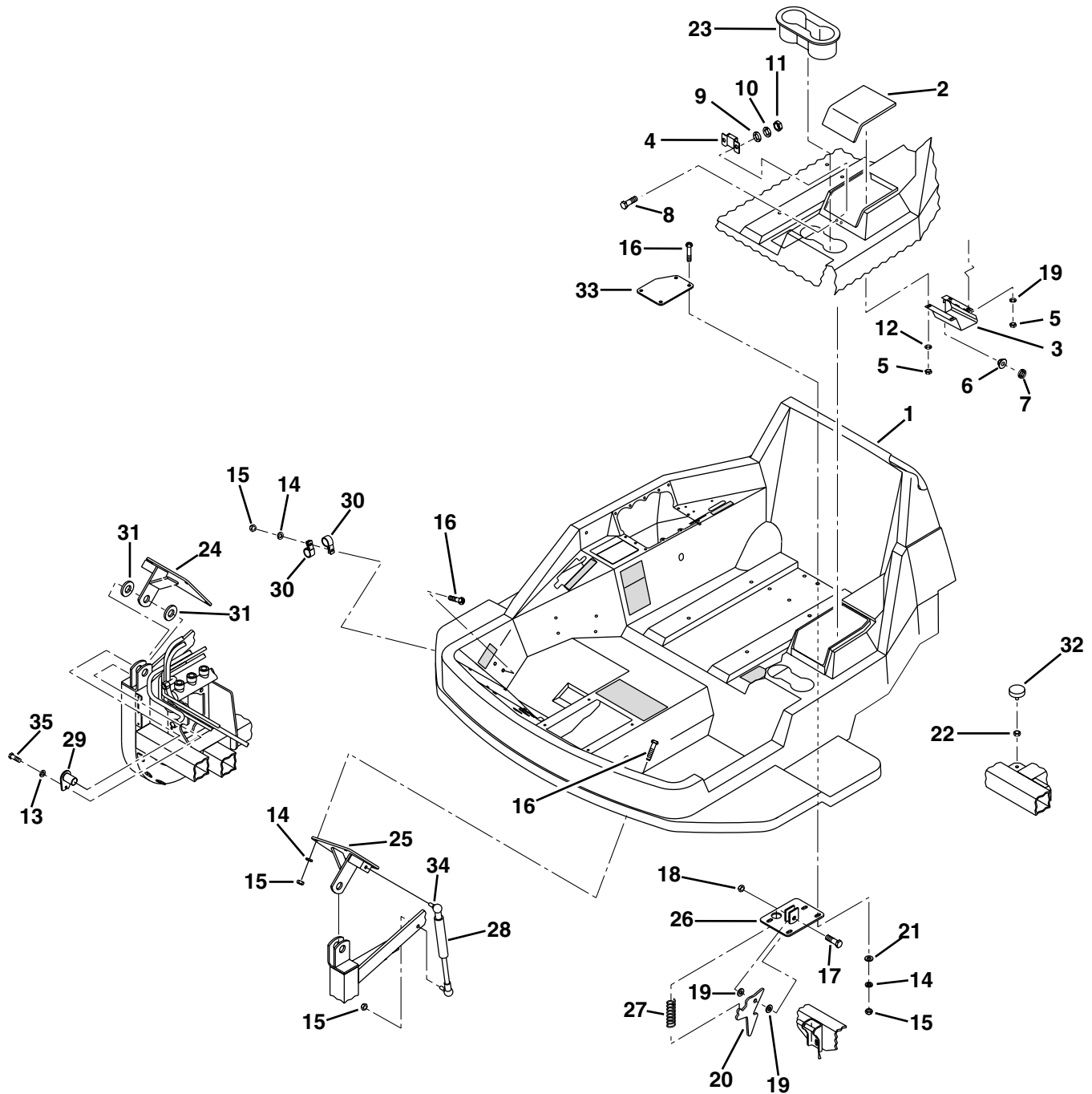
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3.1 Hood Hinge and Platform Latch



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123138	1	Hood Assembly	
	5000082	4	• Seal	
	5001412	AR	• Fiberglass-Metal Bond Repair Kit	
2	132713	1	Body Panel Assembly, R.H.	2WD Units
3	1000153	1	Body Panel Assembly, R. H.	4WD Units
4	132714	1	Body Panel Assembly, L.H.	2WD Units
5	1000154	1	Body Panel Assembly, L.H.	4WD Units
6	132792	1	Rear Body Panel Assembly	
7	367061	1	Seal	
8	366952	2	Plate	
9	340552	1	Bracket, L.H. Pivot	
10	366950	2	Link	
11	366883	2	Latch, Soft	
12	340553	1	Bracket, R.H. Pivot	
13	340592	1	Lever, Latch Disengage	
14	366951	2	Link	
15	164101	1	Bracket Assembly, Latch Rod	
16	366919	2	Plate, Lever Guide	
17	400262	8	Screw, 3/8-16 x 1" Hex Head	
18	452008	26	Flat Washer, 3/8	
19	416910	8	Screw, #8-18 x 3/8" Thread Cutting	
20	444762	12	Locknut, 3/8-16 Center	
21	366949	8	Spacer	
22	366877	8	Bushing	
23	461359	2	Roll Pin, 1/8 x 3/4"	
24	366878	8	Washer, Plastic	
25	446142	10	Lockwasher, 3/8 Heavy	
26	443110	10	Nut, 3/8-16	
27	400106	4	Screw, 1/4-20 x 5/8" Hex Head	
28	464854	1	Rivet, 1/8" x 3/8"	
29	452006	4	Flat Washer, 5/16	
30	446136	4	Lockwasher, 5/16 Heavy	
31	443106	4	Nut, 5/16-18400262	
32	400262	2	Screw, 3/8-16 x 1" Hex Head	
33	446130	4	Screw, 1/4-20 x 5/8" Hex Head	
34	443102	4	Nut, 1/4-20 Hex	
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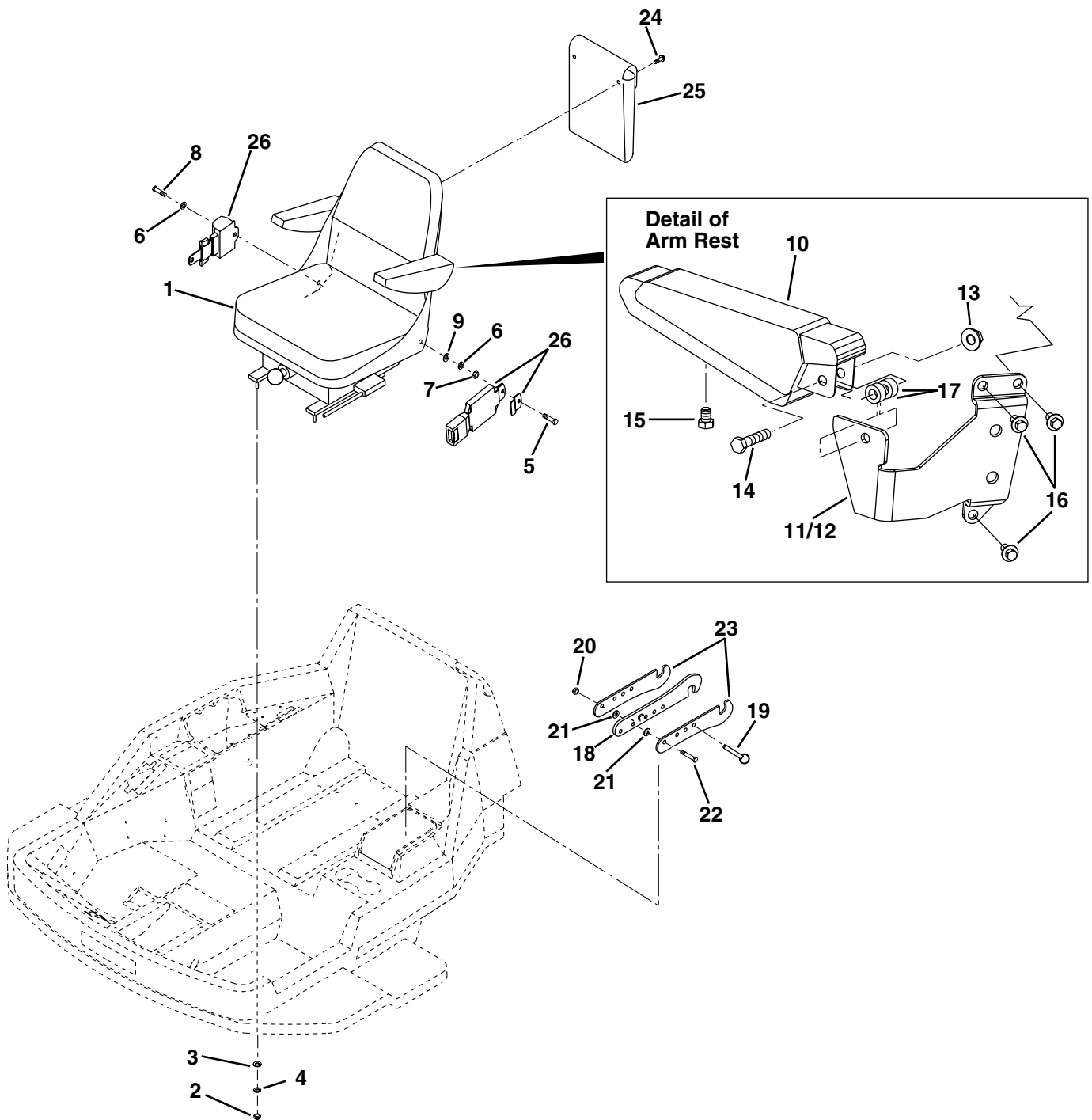
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Item	Part No.	Qty.	Description	Serial Numbers/Notes	
>	1	5000014	1	Operator's Platform	Includes Decals
>	2	123170	1	• Compartment Cover Assembly	
>	3	340641	1	• Hinge Assembly, Cover	
>	4	164110	1	• Magnetic Catch Assembly	
>	5	443102	1	• Nut, 1/4-20 Hex	
>	6	367068	1	• Bushing, Spring	
>	7	367067	1	• Spring, Hinge	
>	8	403806	1	• Screw, #6-32 x 1/2" Truss Head	
>	9	455053	1	• Flat Washer, #6	
>	10	446106	1	• Lockwasher, #6	
>	11	444304	1	• Nut, #6-32 Hex	
>	12	446130	4	• Lockwasher, 1/4 Heavy	
>	13	446130	2	Lockwasher, 1/4 Heavy	
>	14	446142	13	Lockwasher, 3/8 Heavy	
>	15	444762	15	Locknut, 1/2-16 Center	
>	16	404122	13	Screw, 3/8-16 x 1-1/4" Truss Head	
>	17	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
>	18	444758	1	Locknut, 1/2-13 Center	
>	19	452012	4	Flat Washer, 1/2	
>	20	340587	1	Lever	
>	21	452008	4	Flat Washer, 3/8	
>	22	443810	4	Nut, 3/8-16 Jam	
	23	391076	1	Cup Holder	
	24	123181	1	Pivot Assembly, Platform	
	25	123182	1	Pivot Assembly, Platform	
	26	164100	1	Pivot Assembly	
	27	367064	1	Spring, Compression	
	28	2809834	2	Gas Spring	
	29	1000012	2	Rod Assembly, Pivot	
	30	367028	3	Clamp, Hose	
	31	455004	4	Flat Washer	
	32	361723	4	Bumper	
	33	367063	1	Plate, Latch	
	34	2809835	4	Ball Stud	
	35	400106	2	Screw, 1/4-20 x 5/8" Hex Head	

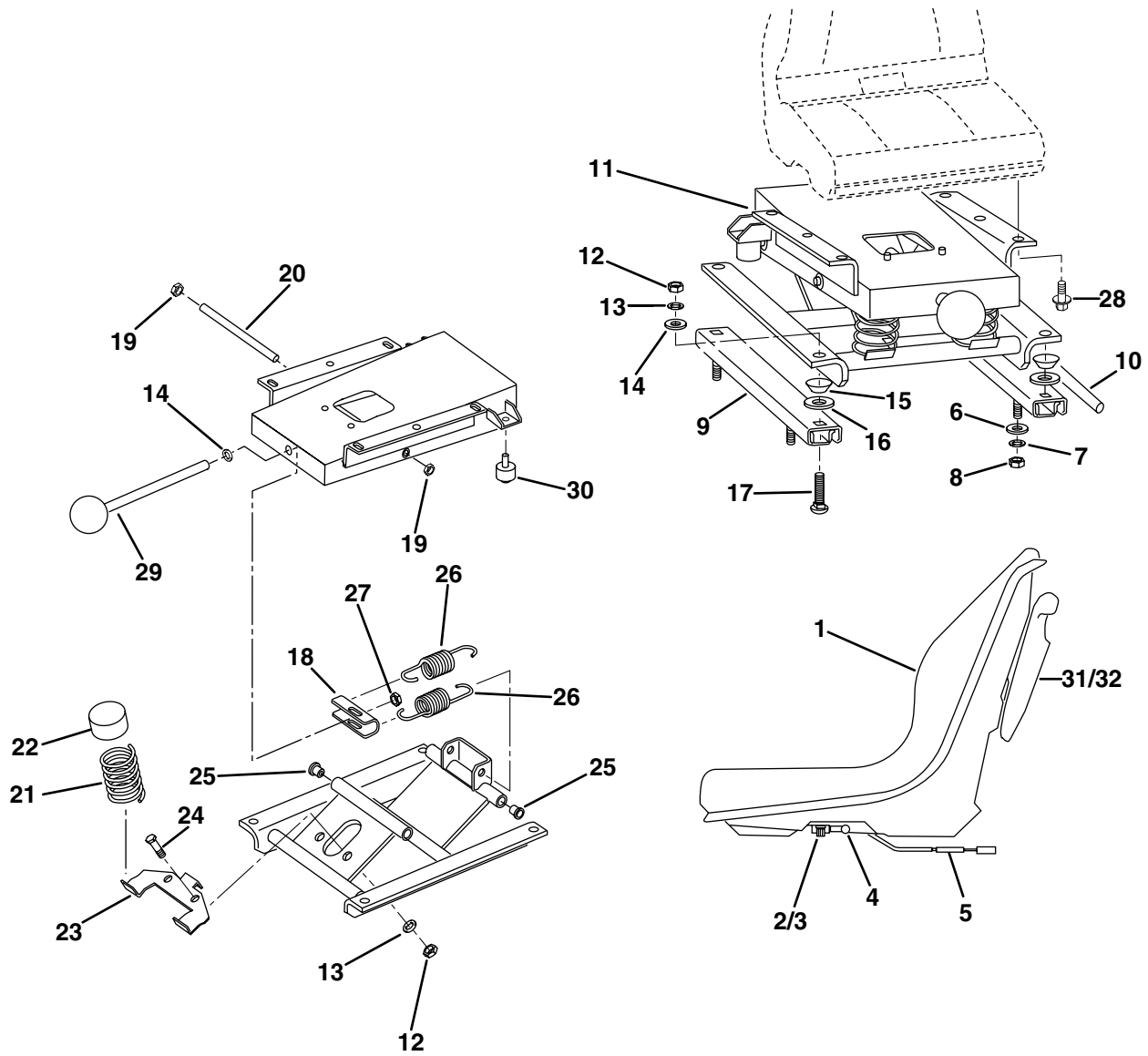
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5.1 Seat and Arm Rest



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	—	1	Seat Assembly	See 6.1
2	443106	4	Nut, 5/16-18 Hex	
3	452006	4	Flat Washer, 5/16	
4	446136	4	Lockwasher, 5/16 Heavy	
5	500465	1	Screw, 7/16-20 x 1-1/2" Hex Head	4WD Units Only
6	446148	2	Lockwasher, 7/16	4WD Units Only
7	443116	1	Nut, 7/16-20	4WD Units Only
8	400374	1	Screw, 7/16-20 x 1" Hex Head	4WD Units Only
9	452010	1	Flat Washer, 7/16	4WD Units Only
10	66156	1	Arm Rest (Set of Two)	
	554739	2	• Arm Rest	
11	554737	1	• Bracket, L.H.	
12	554740	1	• Bracket, R.H.	
13	445783	2	• Nut, 3/8-16 Hex	
14	400268	2	• Screw, 3/8-16 x 1-3/4" Hex Head	
15	400254	2	• Screw, 3/8-16 x 1/2" Hex Head	
16	3001328	6	• Screw, 5/16-18 x 5/8" Washer Hd.	
17	554738	4	• Spacer	
18	3002463	1	Bar, Latch	
19	3002466	3	Pivot Pin	
20	444780	4	Nut, 1/2-20 Center Lock	
21	452012	4	Flat Washer, 1/2	
22	400444	1	Screw, 1/2-20 x 1-3/4" Hex Head	
23	3002464	2	Bar, Transport Latch	
24	3001328	2	Screw, 5/16-20 x 5/8" Washer Head	
25	3002928	1	Literature Pouch	
26	555892	1	Seat Belt Assembly	4WD Units Only

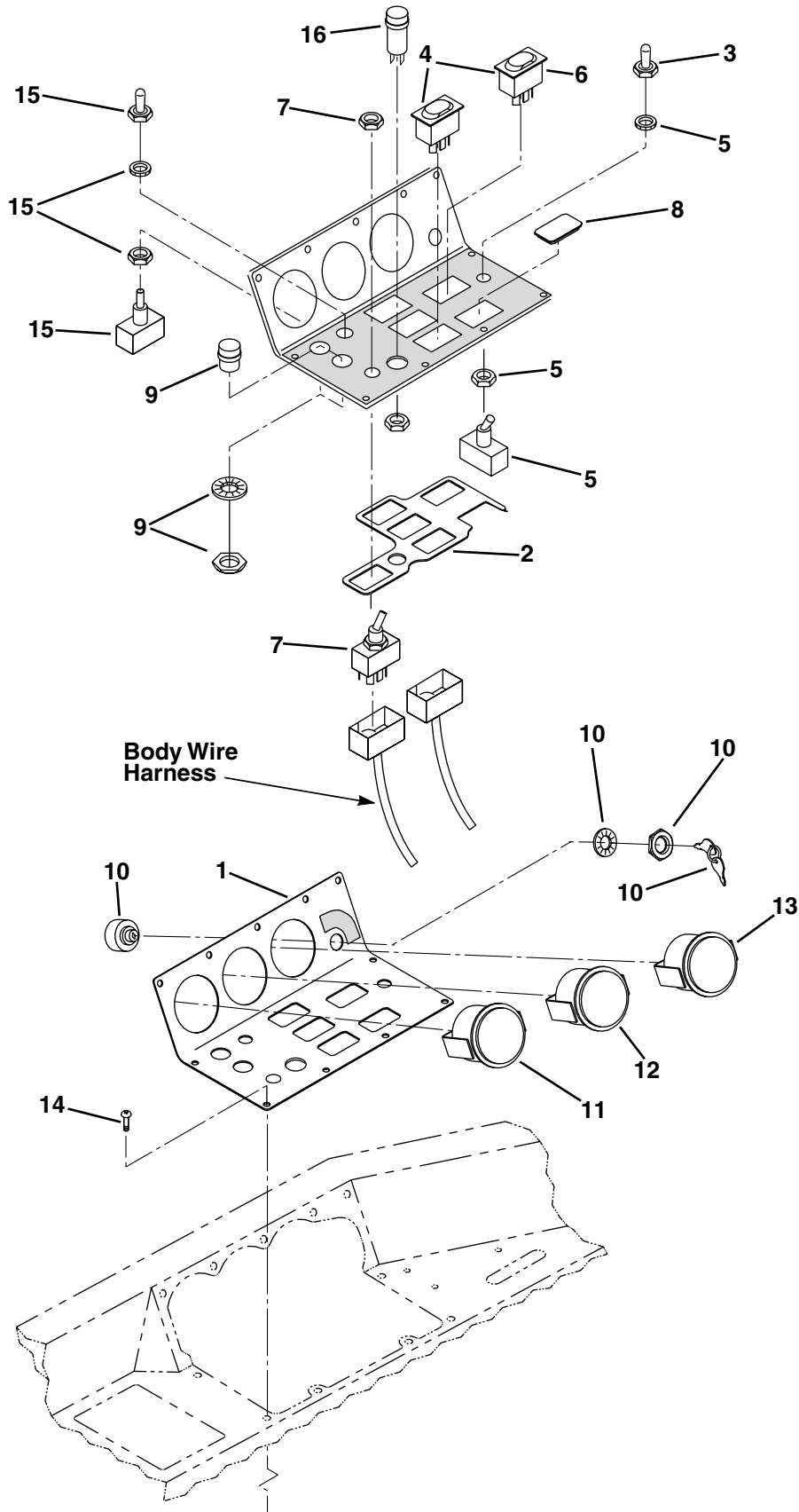
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	66172	1	Seat, Gray	
2	434011	2	• Screw, 1/4-20 x 5/8" Socket Head	
3	446130	2	• Lockwasher, 1/4"	
4	554390	11	• Switch, Seat	
5	163583	1	• Wire Assembly	
6	452006	4	Flat Washer, 5/16"	
7	446136	4	Lockwasher, 5/16" Heavy	
8	443106	4	Nut, Hex 5/16-18	
9	3006988	1	Adjuster, Slave	
10	3009995	1	Adjuster, Latching	
11	66170	1	Suspension, Seat	
12	443106	5	• Nut, Hex 5/16-18	
13	446134	5	• Lockwasher, 5/16"	
14	452006	5	• Flat Washer, 5/16"	
15	554712	4	• Spacer	
16	452010	4	• Flat Washer, 7/16"	
17	441677	4	• Bolt, Carriage, 5/16-18 x 1-1/2"	
18	554716	1	• Hanger, Spring	
19	554718	4	• Nut, Push	
20	554717	1	• Shaft, Pivot	
21	5002620	2	• Spring Kit	
	N/S	2	• • Spring	
22	N/S	2	• • Cap, Vinyl	
23	N/S	1	• • Plate, E-Coated	
24	400186	2	• Screw, 5/16-18 x 7/8" Hex Head	
25	554720	4	• Bearing, Sleeve	
26	554719	2	• Spring, Extension	
27	444762	1	• Locknut	
28	3001328	6	• Screw, 5/16-18 x 5/8" Hex Head	
29	554715	1	• Knob, Tension Adjust	
30	554714	2	• Bumper, Rear Downstop	
31	3001328	6	Screw, 5/16-18 x 5/8" Hex Head	
32	3003928	1	Bag, Literature	

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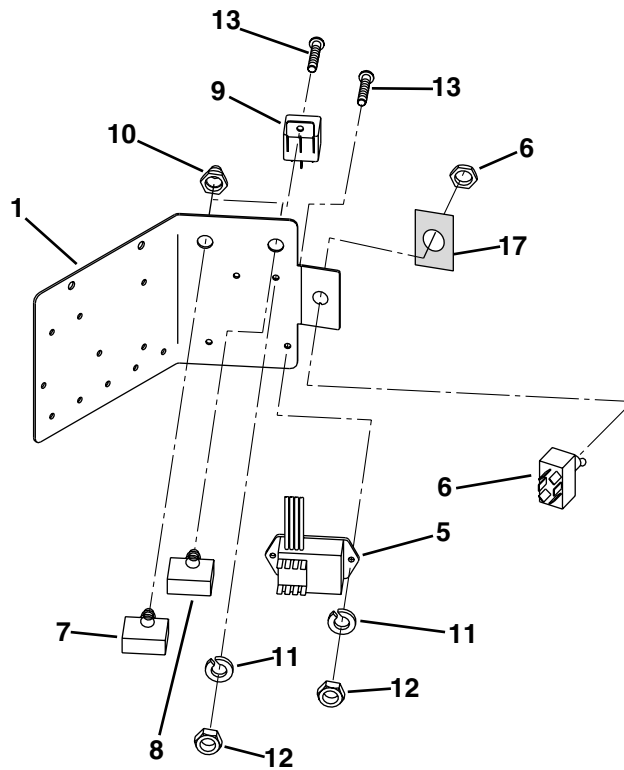
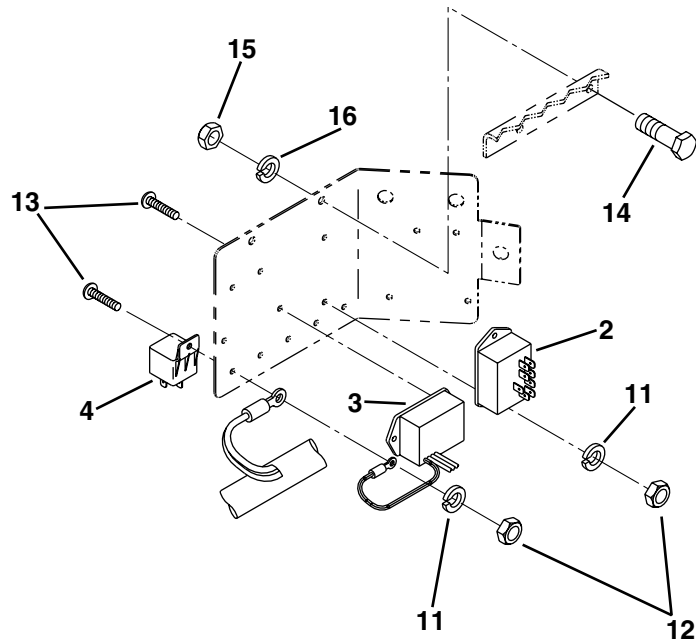
7.1 Instrument Panel



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
	1	4104660	1	Instrument Panel	Includes Decals 4WD Units Only
	2	NS	1	• Shim, Instrument Panel	
>	3	363962	2	Boot, Glow Plug Switch	
>	4	3001374	3	Switch, SPDT	
>		5003490	3	• Switch, Bezel	
	5	363961	2	Switch, Glow Plug	
	6	3001375	1	Switch, SPDT	
		5003490	1	• Switch, Bezel	
	7	3001372	1	Switch, Toggle	
	8	366932	AR	Plug, Instrument Panel	
	9	164194	1	Light, Indicator	
		557761	1	• Red Lens	
		558195	1	• Light Bulb	
10	1000348	1	Switch, Ignition		
		447222	1	• Lockwasher, 9/16 Internal Tooth	
		358968	1	• Nut	
		5000039	1	• Ignition Key (Set of Two)	
11	162721	1	Voltmeter		
		447002	2	• Lockwasher, #10 External Tooth	
		444304	2	• Nut, #6-32 Hex	
		447206	2	• Lockwasher, #8 Internal Tooth	
		444306	2	• Nut, #8-32 Hex	
12	162723	1	Hourmeter		
		447006	1	• Lockwasher, #10 External Tooth	
		444310	1	• Nut, #10-24 Hex	
13	365943	1	Fuel Guage		
		446002	2	• Lockwasher, #6 External Tooth	
		444304	2	• Nut, #6-32	
		447206	2	• Lockwasher, #8 Internal Tooth	
		444310	2	• Nut, #8-32 Hex	
14	416909	11	Screw, #10-1/2" C/R Pan Head		
	15	361406	1	Switch, Toggle	
>	16	366751	1	Indicator Light, Yellow	
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8.1 Relay Mounting Panel

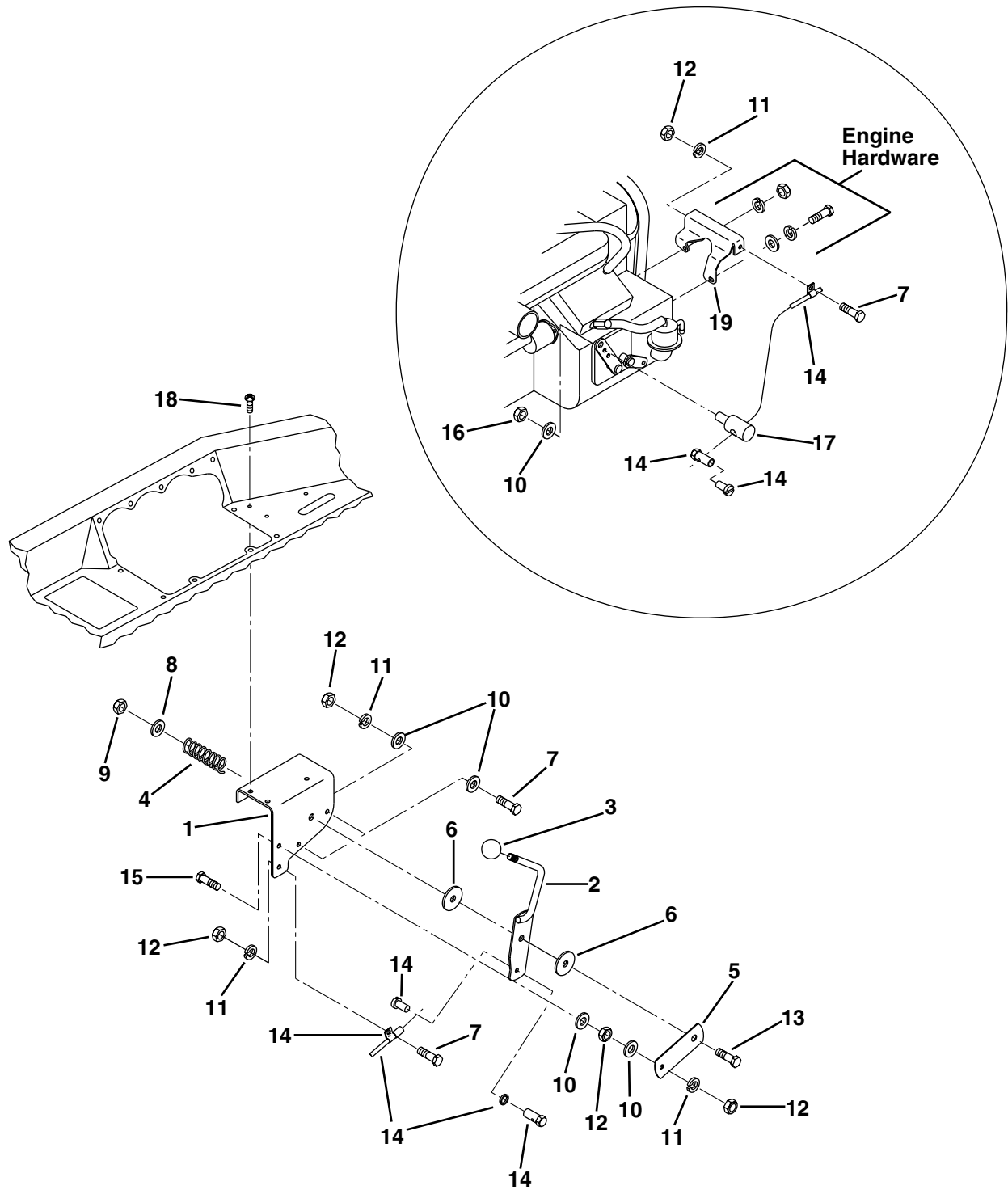


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3002405	1	Plate, Relay Mounting	
2	366759	1	Module, GreenSentry	
3	365020	1	Relay, Seat Time Delay	
4	365963	6	Relay, Normally Open	
5	3000367	1	Timer, Lift	
6	3001372	1	Switch, Backlap	
7	338601	1	Circuit Breaker, 10 Amp	
8	338558	1	Circuit Breaker, 30 Amp	
9	3001307	2	Relay, Normally Closed	
10	364774	2	Boot, Circuit Breaker	
11	446118	12	Lockwasher, #10 Heavy	
12	444310	12	Nut, #10-24 Hex	
13	403910	12	Screw, #10-24 x 1/2" Truss Head	
14	400110	2	Screw, 1/4-20 x 7/8" Hex Head	
15	443102	2	Nut, 1/4-20	
16	446130	2	Lockwasher, 1/4 Heavy	

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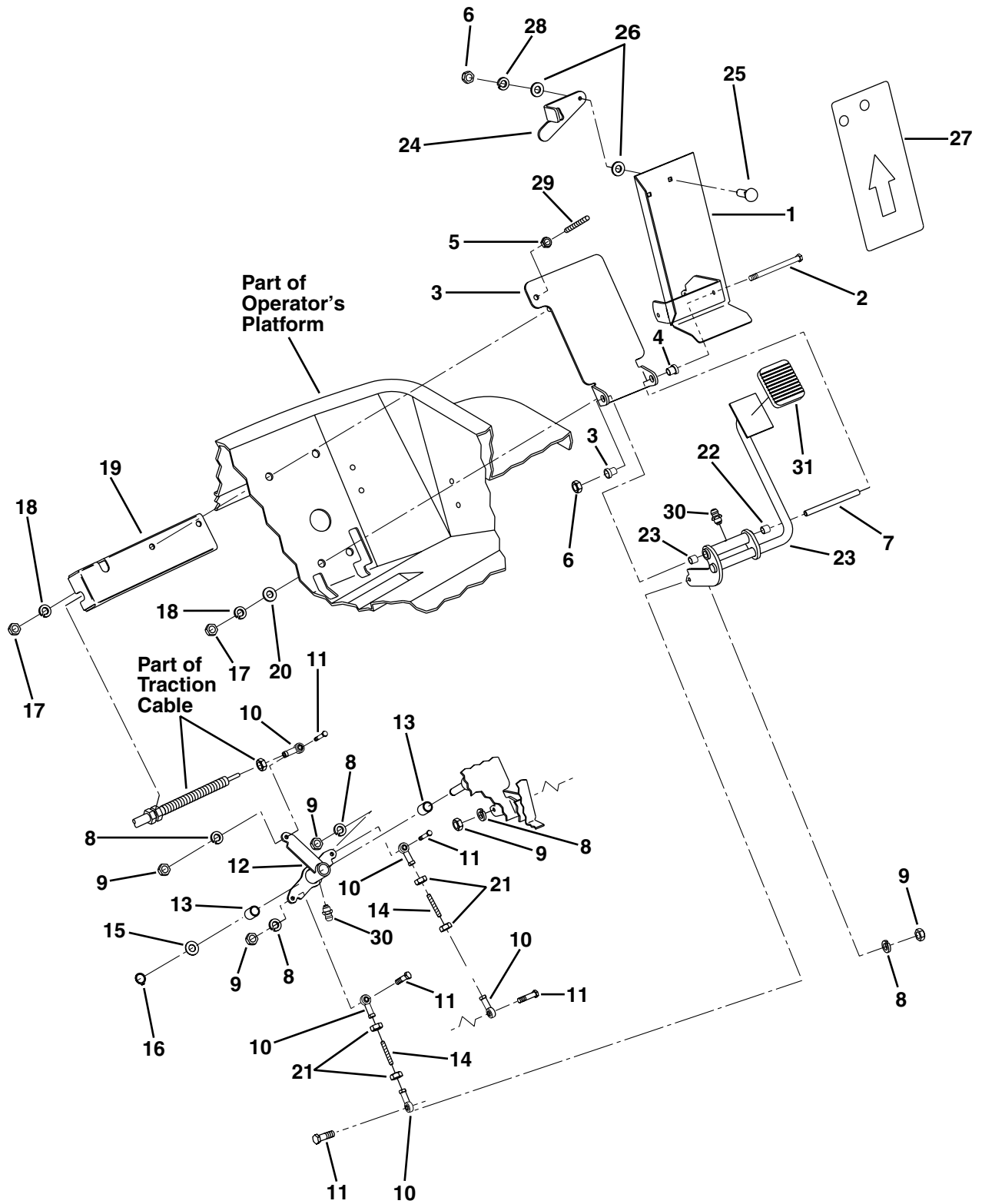
9.1 Throttle Lever



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	164185	1	Bracket Assembly, Throttle Mounting	
2	132695	1	Throttle Lever Assembly	
3	326731	1	Knob	
4	351956	1	Spring, Throttle Pivot	
5	366960	1	Plate, Backup	
6	360885	2	Friction Disk	
7	400106	7	Screw, 1/4-20 x 5/8" Hex Head	
8	453011	1	Flat Washer, 3/8	
9	444762	1	Locknut, 3/8-16 Center	
10	453023	7	Flat Washer, 1/4	
11	446130	5	Lockwasher, 1/4 Heavy	
12	443102	6	Nut, 1/4-20	
13	400272	1	Screw, 3/8-16 x 2-3/4" Hex Head	
14	164102	1	Cable Assembly, Throttle	
	558020	1	• Swivel Assembly	
	558021	2	• Conduit Clip	
	5003460	1	• Wire Stop Assembly	
15	400110	1	Screw, 1/4-20 x 7/8" Hex Head	
16	444708	1	Locknut, 1/4-20 Center	
17	554988	1	Pivot, Throttle Cable	
18	404018	3	Screw, 1/4-20 x 3/4" Truss Head	
19	391107	1	Bracket, Throttle Cable Anchor	

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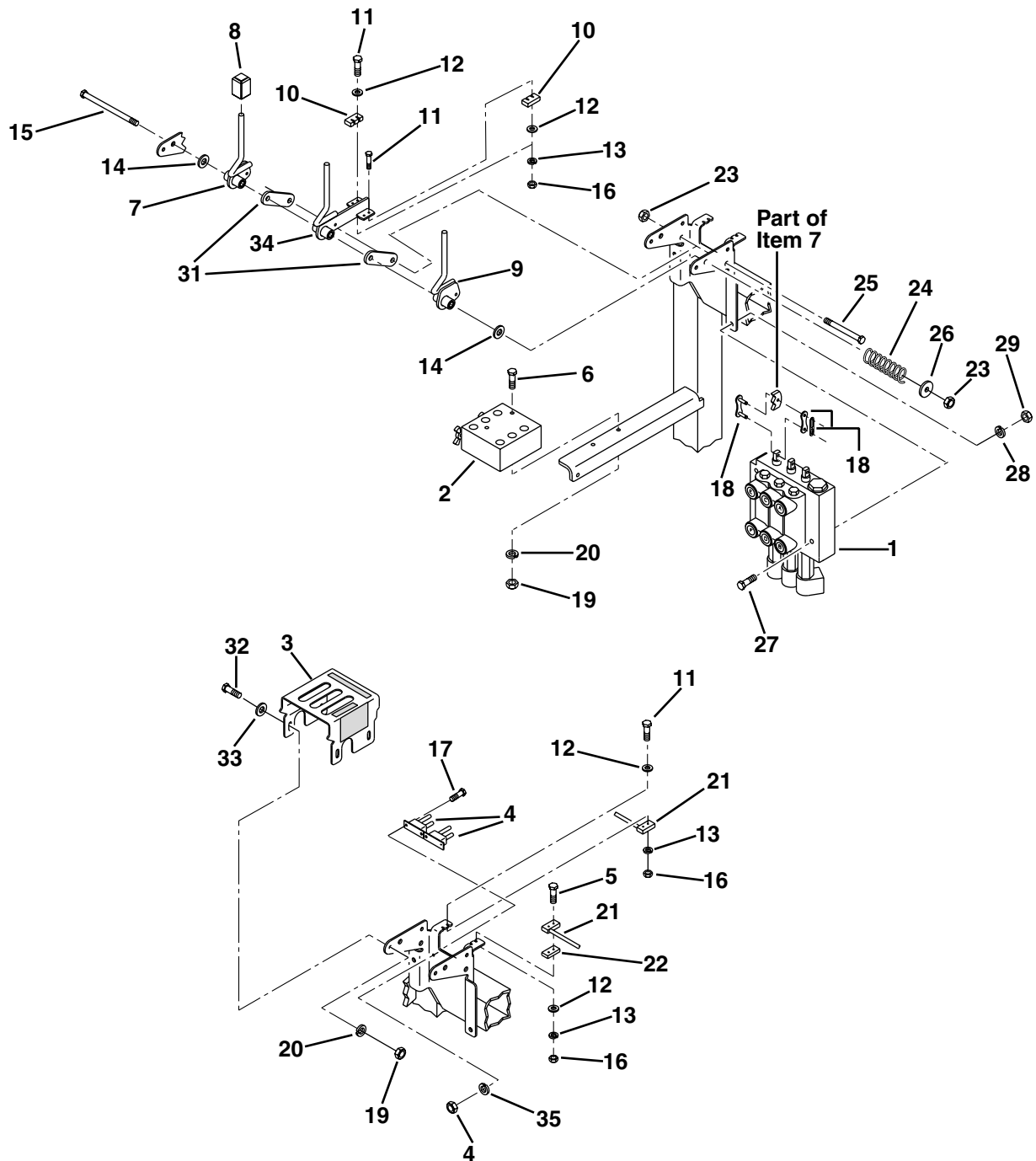
10.1 Traction Pedal



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132689	1	Pedal Assembly, Hydro	
2	400138	1	Screw, 1/4-20 x 5-1/2" Hex Head	
3	123116	1	Mount Assembly, Hydro Pedal	
4	364154	2	• Bushings	
5	443106	1	Nut, 5/16-18 Hex	
6	444708	3	Locknut, 1/4-20 Center	
7	366934	1	Tube, Reverse Pedal Pivot	
8	446130	6	Lockwasher, 1/4 Heavy	
9	443102	6	Nut, 1/4-20 Hex	
10	364235	5	Ball Joint	
11	400112	5	Screw, 1/4-20 x1" Hex Head	
12	132693	1	Pivot Assembly	
13	351634	2	• Bushing	
14	366942	2	Threaded Rod, 1/4-28	
15	302405	1	Flat Washer	
16	485440	1	Retaining Ring, External	
17	443110	5	Nut,3/8-16 Hex	
18	446142	5	Lockwasher, 3/8 Heavy	
19	340547	1	Bracket, Mount	
20	452008	2	Flat Washer, 3/8	
21	443104	4	Nut, 1/4-28 Hex	
22	123117	1	Pedal Assembly, Reverse	
23	361108	2	• Bushings	
24	340557	1	Stop, Mow Speed	
25	440042	2	Carriage Bolt, 1/4-20 x 3/4"	
26	452004	4	Flat Washer, 1/4	
27	366963	1	Pad, Pedal	
28	454026	3	Spring Washer	
29	360462	1	Stud, Hydro Pedal Stop	
30	471214	2	Grease Fitting	
31	353962	1	Pad, Reverse Pedal	

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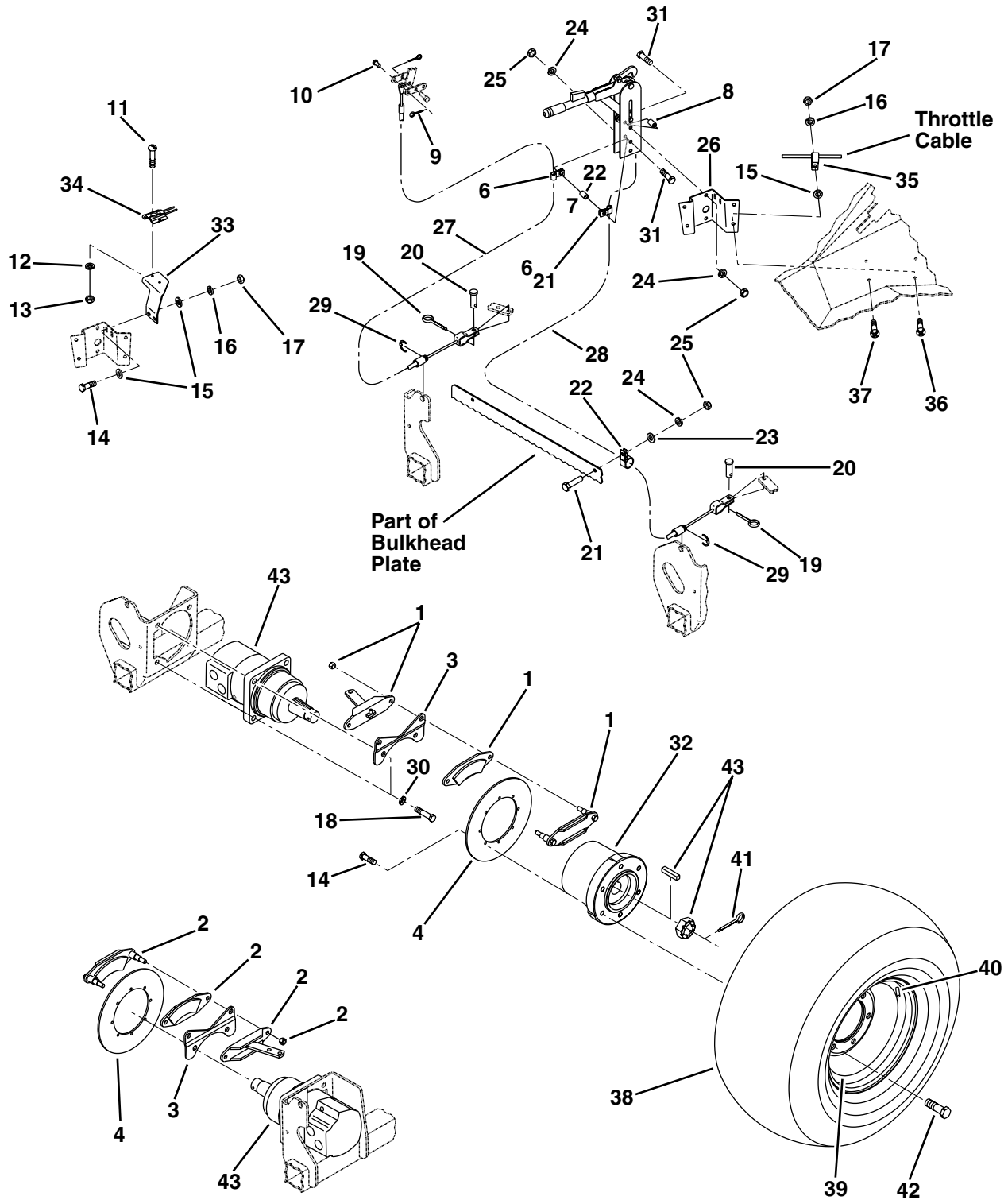
11.1 Lift Valve and Controls



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
	1	117149	1	Lift Valve	See 64.1
	2	117150	1	Manifold Valve	See 62.1
	3	5000006	1	Bracket, Lift Levers	Includes Decals
>	4	444310	4	Nut, #10 -24 Hex	
>	5	403763	2	Screw, #4-40 x 1-1/2" Slotted Head	
>	6	400132	2	Screw, 1/4-20 x 2-3/4" Hex Head	
	7	1002403	1	Lift Lever Assembly, R.H.	
		364143	2	• Bushing	
	8	3005157	1	Knob	
	9	1002402	1	Lift Lever Assembly, L.H.	
		364143	2	• Bushing	
	10	367037	2	Magnet	
	11	403512	6	Screw, #4-40 x 3/4" SI Round Head	
	12	453005	8	Flat Washer, #6	
	13	446102	8	Lockwasher, #4	
	14	367112	2	Washer, Nylon	
	15	400476	1	Screw, 3/8-16 x 6" Hex Head	
	16	444302	8	Nut, #4-40 Hex	
	17	402118	4	Screw, #10-24 x 1/2" SI Round Head	
	18	366133	3	Lift Lever Link	
	19	443102	6	Nut, 1/4-20 Hex	
	20	446130	6	Lockwasher, 1/4 Heavy	
	21	366989	2	Switch, Reed	
	22	367087	1	Spacer, Switch	
	23	444762	2	Locknut, 3/8-16 Center	
	24	363047	1	Spring, Compression	
	25	400288	1	Screw, 3/8-16 x 5-1/2" Hex Head	
	26	455043	1	Special Washer	
	27	400198	2	Screw, 5/16-18 x 2-3/4" Hex Head	
	28	446136	4	Lockwasher, 5/15 Heavy	
	29	443106	2	Nut, 5/16-18 Hex	
	30	361439	2	Circuit Breaker, 50 Amp	
	31	367111	2	Plate, Lift Levers	
	32	400106	4	Screw, 1/4-20 x 5/8" Hex Head	
	33	452004	4	Flat Washer, 1/4	
	34	1002401	1	Lift Lever Assembly, Center	
		364143	2	• Bushing	
	35	446118	4	Lockwasher, #10 Heavy	
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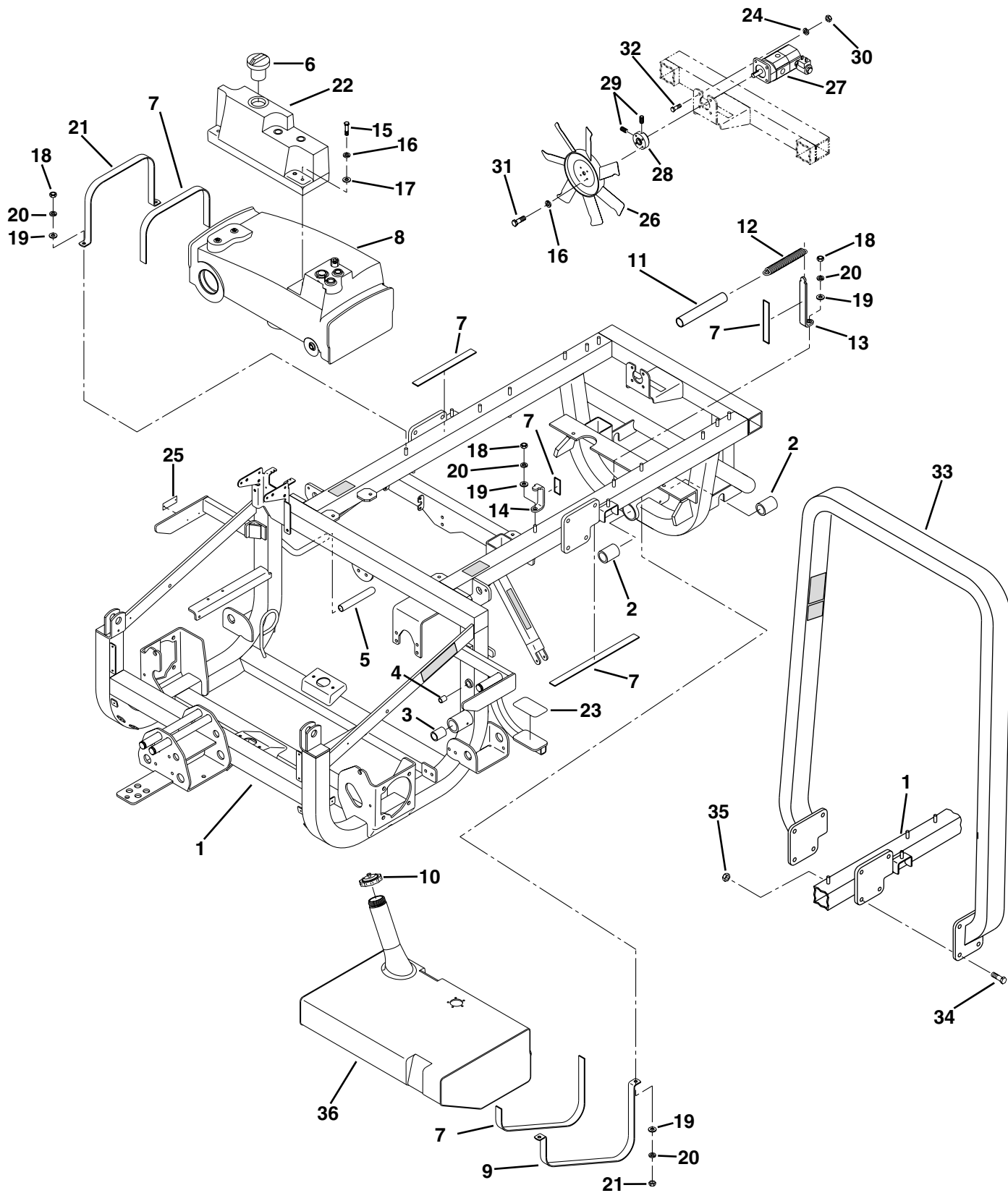
12.1 Front Tires and Brakes



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	503309	1	Brake Assembly, L.H.	See 63.1
2	503308	1	Brake Assembly R.H.	See 63.1
3	340603	2	Mounting Bracket Plate	
4	340486	2	Disk, Brake	
5	1002466	1	Lever Assembly, Parking Brake	
6	545233	2	• Clamp	
7	545275	1	• Spacer	
8	545237	2	• Spacer	
9	460004	2	• Cotter Pin	
10	545234	2	• Clevis Pin	
11	403910	2	Screw, #10-24 x 1/2" Truss Head	
12	446118	2	Lockwasher #10 Heavy	
13	444310	2	Nut, #10-24 Hex	
14	400108	12	Screw, 1/4-20 x 3/4" Hex Head	
15	453023	8	Flat Washer, 1/4"	
16	446130	6	Lockwasher, 1/4 Heavy	
17	443102	6	Nut, 1/4-20 Hex	
18	400412	8	Screw, 1/2-13 x 2" Hex Head	
19	460014	2	Cotter Pin, 3/32 x 3/4"	
20	461493	1	Clevis Pin, 5/16 x 3/4"	
21	400184	1	Screw, 5/16-18 x 3/4" Hex Head	
22	367028	1	Clamp, Hose	
23	453009	1	Flat Washer, 5/16	
24	446136	4	Lockwasher, 5/16 Heavy	
25	443106	4	Nut, 5/16-18 Hex	
26	391098	1	Bracket, Brake Lever Mounting	
27	164096	1	Cable Assembly, Brake, R.H.	
28	164097	1	Cable Assembly, Brake, L.H.	
29	557771	2	• "E" Ring	
30	446154	8	Lockwasher, 1/2 Heavy	
31	400194	3	Screw, 5/16-18 x 1-3/4" Hex Head	
32	2000141	2	Hub, Wheel	
33	340559	1	Bracket, Brake Switch Mounting	
34	1000649	1	Switch Assembly	
35	360343	1	Clamp, Hose	
36	404022	1	Screw, 1/4-20 x 1" Truss Head	
37	404018	3	Screw, 1/4-20 x 3/4" Truss Head	
38	364392	2	Tire, 26 x 12-12 NHS 4 Ply	
39	5002909	2	Rim	
40	360111	2	Valve Stem	
41	460093	2	Cotter Pin	
42	353914	12	Wheel Bolt	
43	1001757	2	Front Wheel Motor	See 59.1

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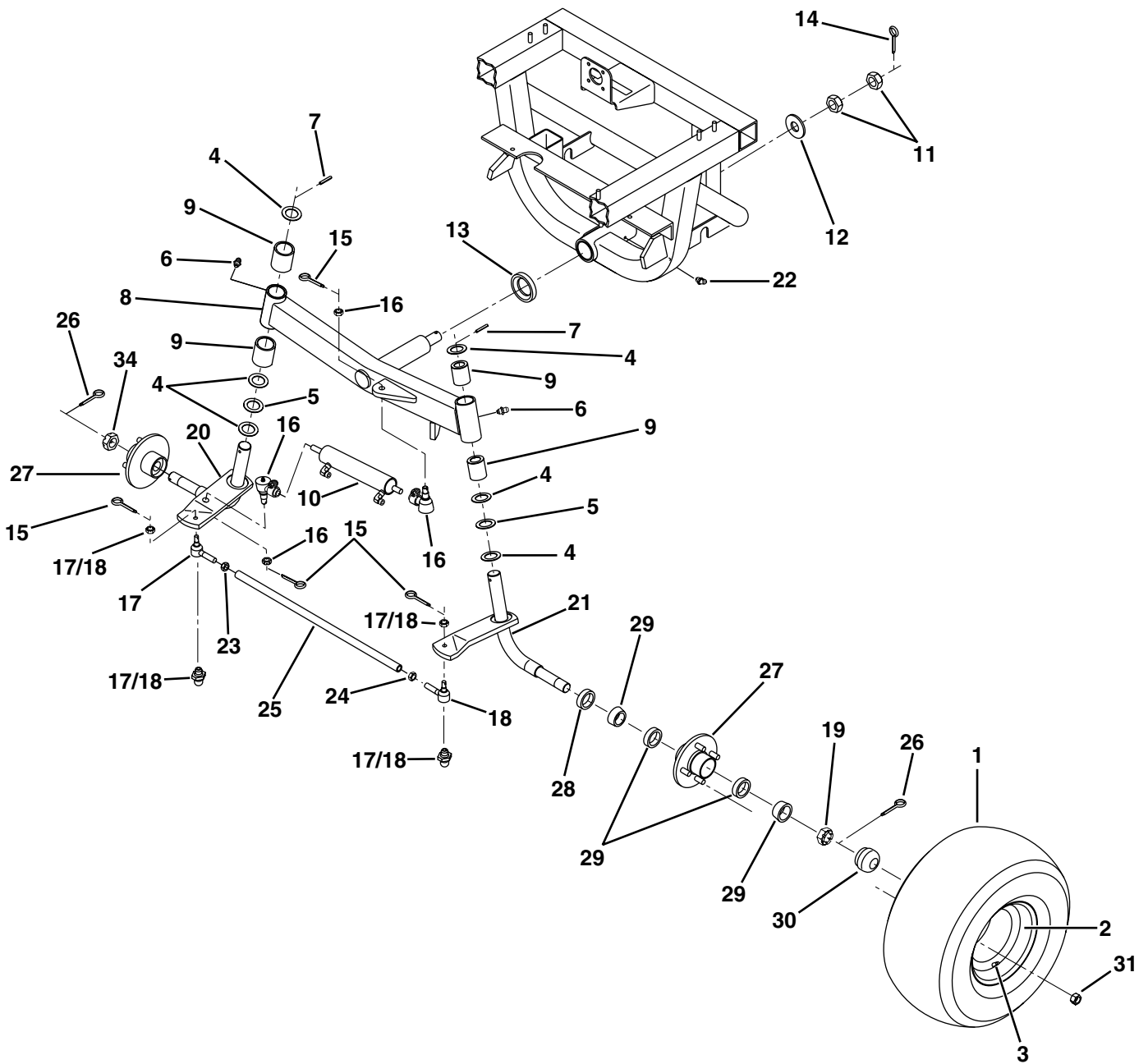
13.1 Frame and Tanks



Item	Part No.	Qty.	Description	Serial Numbers/Notes		
	1	5002093	1	Frame	Includes Decals	
	2	366871	2	• Bushing, Pivot		
	3	360460	2	• Bushing, Lower Frame Side		
	4	303990	2	• Bushing, Upper Frame Side		
>	5	3005222	2	• Cap		
>	6	338547	1	Cap, Hydraulic Fluid Tank		
>	7	558012	AR	Mounting Pad		
>	8	3000870	1	Tank, Lower, Hydraulic Fluid		
	9	340546	2	Mounting Strap, Fuel Tank		
>	10	4106900	1	Cap, Fuel Tank		
	11	367127	1	Cover, Spring		
	12	367096	1	Spring, Extension		
	13	366962	1	Guide, Rear, Hydraulic Fluid Tank		
	14	366961	1	Guide, Front , Hydraulic Fluid Tank		
	15	400120	3	Screw, 1/4-20 x 2" Hex Head		
	16	446130	7	Lockwasher, 1/4 Heavy		
	17	452004	3	Flat Washer, 1/4		
	18	443110	8	Nut, 3/8-16		
	19	452008	8	Flat Washer, 3/8		
	20	446142	8	Lockwasher, 3/8 Heavy		
	21	3001531	2	Mounting Strap, Hydraulic Fluid Tank		
>	22	395385	1	Tank, Upper, Hydraulic Fluid		
	23	366964	1	Pad, Frame Step		
	24	446136	4	Lockwasher, 5/16 Heavy		
	25	REF	1	Plate, "CE" Serial Number		
	26	557982	1	Fan		Included with Engine See 60.1
	27	117158	1	Motor, Fan		
	28	340606	1	Hub, Fan Motor		
	29	415504	2	Set Screw, 1/4-20 x 1/2" Socket Head		
	30	443106	4	Nut, 5/16-16 Hex		
	31	400104	4	Screw, 1/4-20 x 1/2" Hex Head		
	32	400186	4	Screw, 5/16-18 x 7/16" Hex Head		
	33	67762	1	ROPS Assembly		
	34	5000466	8	• Nut, 1/2-13		
	35	5000465	8	Screw, 1/2-13 Hex Head		
>	36	395384	1	Tank, Fuel		4WD Units Only
>					4WD Units Only	
>					4WD Units Only	
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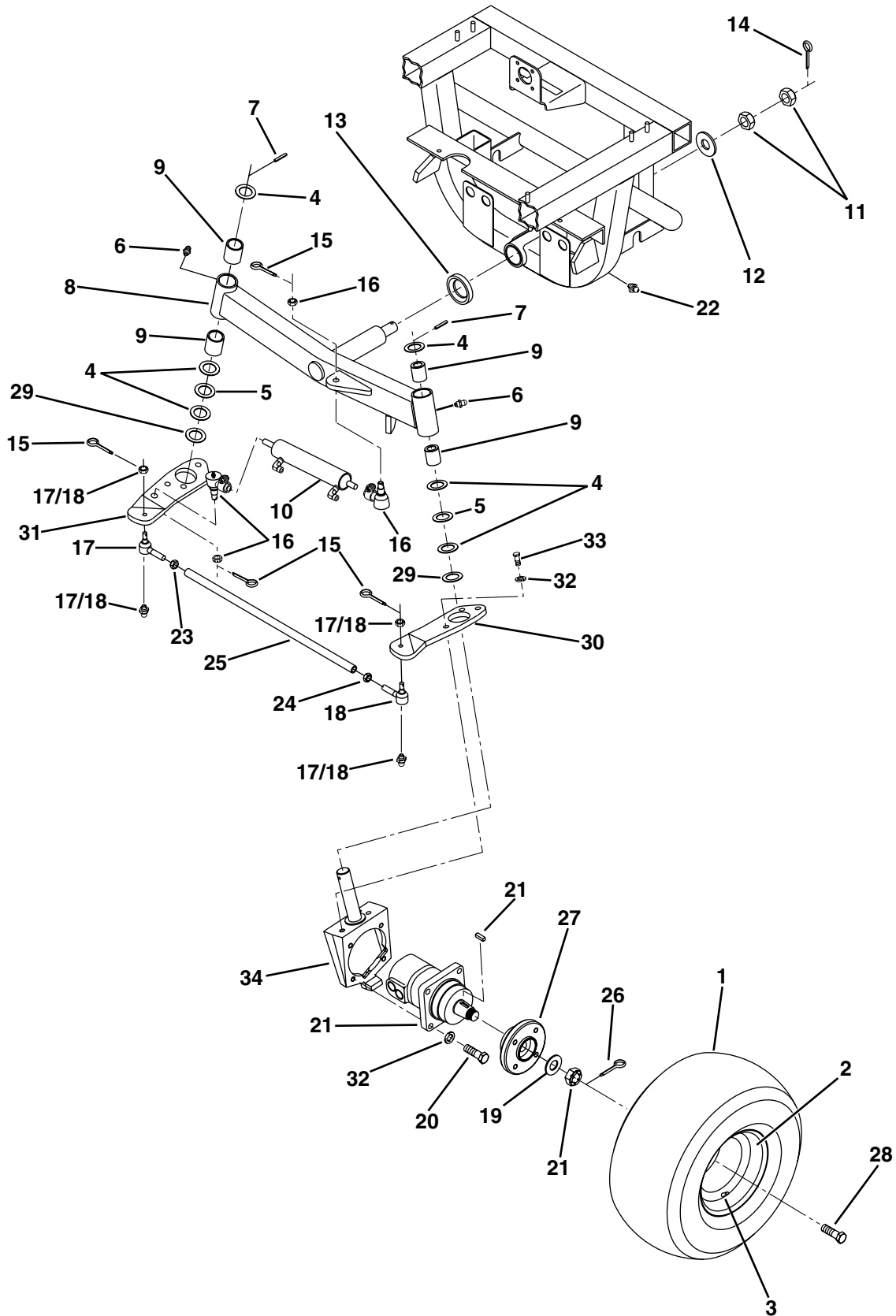
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14.1 Two Wheel Drive Steering



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	366790	2	Tire, 20 x 10 x 8, 2-ply	
2	1003638	2	Rim	
3	360111	2	Valve Stem	
4	361648	6	Thrust Washer	
5	361647	2	Thrust Bearing	
6	471214	2	Grease Fitting	
7	461393	1	Roll Pin, 1/4 x2"	
8	117139	1	Axle Assembly (Includes Item 9)	
9	363562	4	• Bushing	
10	340491	1	Steering Cylinder	
	557621	1	• Seal Repair Kit, Gold Star	
	5003658	1	• Seal Repair Kit, (HDM)	
11	443840	2	Nut, 1-12 Jam	
12	452022	1	Washer	
13	366789	1	Spacer	
14	460064	1	Cotter Pin, 1/4 x 1-1/2"	
15	460026	4	Cotter Pin, 1/8 x 3/4"	
16	153234	2	Ball Joint	
17	1002032	1	Ball Joint, R.H.	
18	1002031	1	Ball Joint, L.H.	
	471214	2	• Grease Fitting	
	445647	2	• Nut, 3/8-24, Slotted	
19	445710	8	Nut, 1-1/4 Slotted	
20	132670	1	Spindle Assembly, R.H.	
21	132671	1	Spindle Assembly, L.H.	
22	471227	1	Grease Fitting	
23	443120	1	Nut, 1/2-20, R.H.	
24	445664	1	Nut, 1/2-20, L.H.	
25	366785	1	Tie Rod	
26	460050	2	Cotter Pin	
27	5002910	2	Wheel Hub Assembly	
28	554329	2	• Seal	
29	500596	4	• Bearing Set, Cup & Cone	
30	545692	2	• Dust Cap	
31	354807	8	Nut, 1/2-20 Lug	

> Change from previous revision



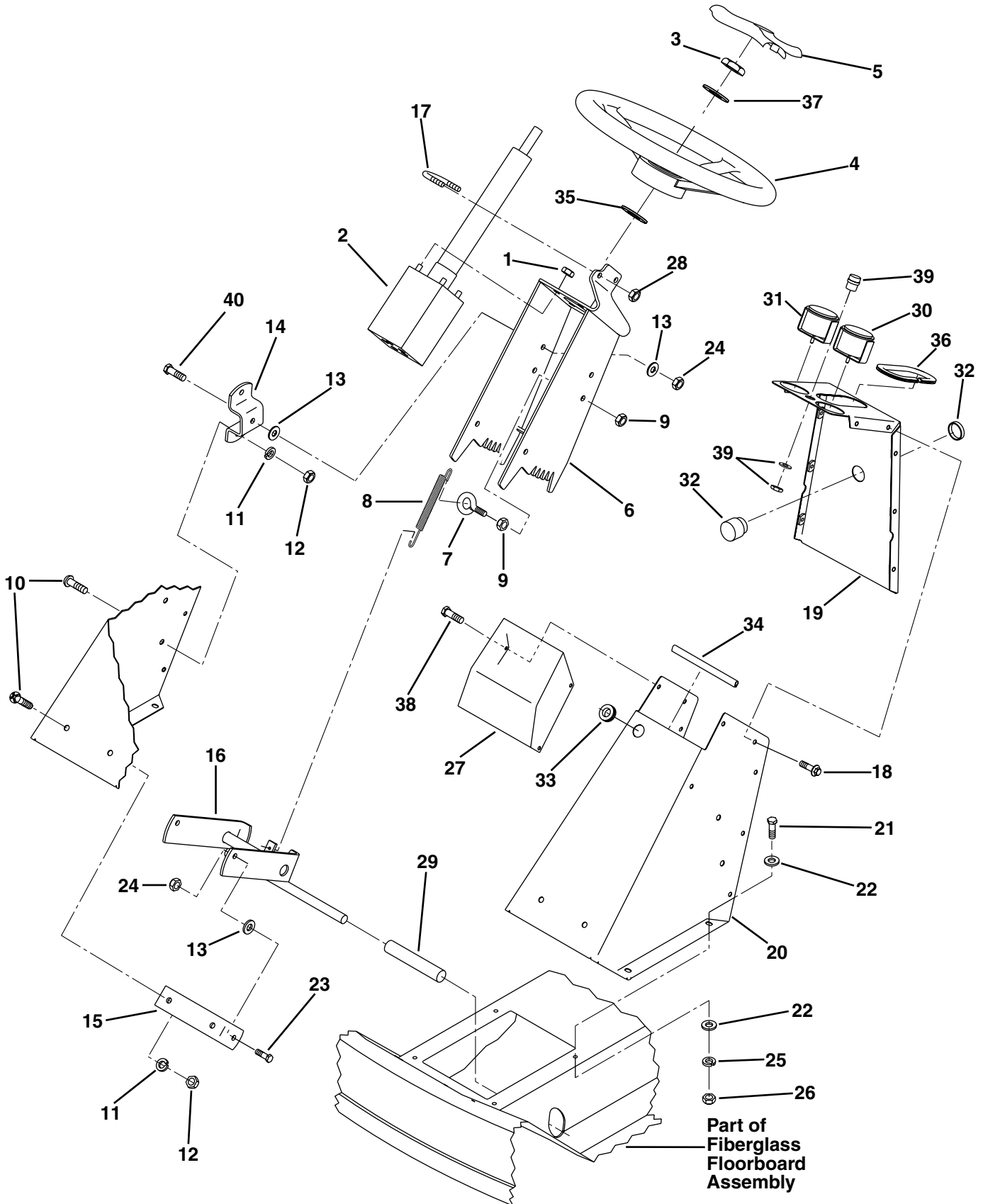
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	366790	2	Tire, 20 x 20 x 8, 2-ply	
2	1003638	2	Rim	
3	360111	2	Valve Stem	
4	361648	6	Thrust Washer	
5	361647	2	Thrust Bearing	
6	471214	2	Grease Fitting	
7	461393	2	Roll Pin, 1/4 x 2"	
8	117139	1	Axle Assembly	
9	363562	4	• Bushing	
10	340491	1	Steering Cylinder	
	557621	1	• Seal Repair Kit (Gold Star Cyl.)	
	5003658	1	• Seal Repair Kit (HDM Cylinders)	
11	443840	2	Nut, 1-12 Jam	
12	452022	1	Washer	
13	366789	1	Spacer	
14	460064	1	Cotter Pin, 1/4 x 1-1/2	
15	460026	4	Cotter Pin 1/8 x 3/4"	
16	153234	2	Ball Joint	
17	1002032	1	Ball Joint, R.H.	
18	1002031	1	Ball Joint, L.H.	
	471214	1	• Grease Fitting	
	445647	1	• Nut, 3/8-24 Slotted	
19	361451	2	Thrust Washer	
20	400410	8	Screw, 1/2-13 x 1-3/4" Hex Head	
21	390859	1	Wheel Motor	See 58.1
22	471227	1	Grease Fitting, 45°	
23	443120	1	Nut, 1/2-20 R.H.	
24	445664	1	Nut, 1/2-20 L.H.	
25	366785	1	Tie Rod	
26	460032	2	Cotter Pin, 1/8 x 1-1/2"	
27	2000012	2	Wheel Hub Assembly	
28	353914	8	Wheel Bolt	
29	367350	2	Beveled Washer	
30	3000476	1	Steering Arm, Left Side	
31	3000475	1	Steering Arm, Right Side	
32	446154	14	Lockwasher, 1/2 Heavy	
33	400406	6	Screw, 1/2-13 x 1-1/4" Hex Head	
34	2000057	2	Motor Mount	

> Change from previous revision

16.1 Tilt Steering Assembly

Serial No. 67827 - 1601 ~ 1999

Serial No. 67828 - 1601 ~ 2434

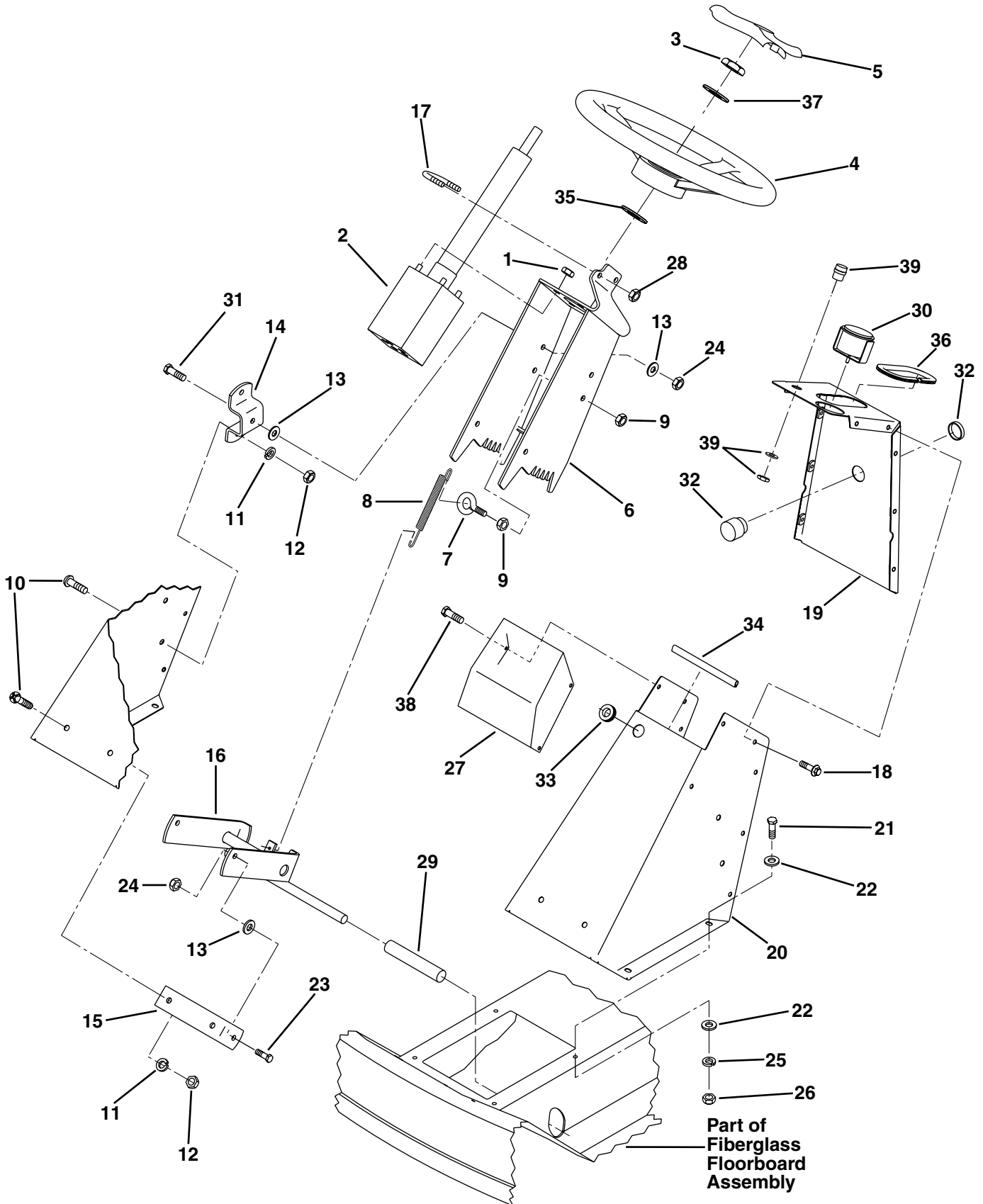


Item	Part No.	Qty.	Description	Serial Numbers/Notes	
>	1	444754	4	Locknut, 5/16-24 Center	See 54.1
	2	117148	1	Steering Unit	
	3	443828	1	• Nut, 5/8-18 Jam	
>	4	2811364	1	Steering Wheel	
>	5	2811365	1	• Steering Wheel Cap	
	6	123120	1	Bracket Assembly, Tilt Steering	
	7	366978	1	Eyebolt	
	8	344716	1	Spring	
	9	444762	2	Locknut, 3/8-16 Center	
	10	404118	6	Screw, 3/8-16 x 7/8" Truss Head	
	11	446142	6	Lockwasher, 3/8 Heavy	
	12	443110	6	Nut, 3/8-16 Hex	
	13	452008	6	Flat Washer, 3/8	
	14	340564	2	Bracket, Pivot	
	15	340565	1	Bracket, Support	
	16	132697	1	Stop Assembly, Tilt Steering	
	17	362469	1	Clamp, Steering Tower	
	18	403753	8	Screw, 1/4-20 x 1/2" Serr Wash	
	19	132698	1	Panel Assembly	
	20	132699	1	Steering Tower Assembly	
	21	400112	8	Screw, 1/4-20 x 1"	
	22	452004	16	Flat Washer, 1/4	
	23	400294	2	Screw, 3/8-24 x 3/4" Hex Head	
	24	444744	4	Locknut, 3/8-24 Center	
	25	446130	8	Lockwasher, 1/4 Heavy	
	26	443102	8	Nut, 1/4-20	
	27	391101	1	Cover, Guage	
	28	444718	2	Locknut, 5/16-18 Center	
	29	365818	1	Cover, Tilt Rod	
	30	164082	1	Water Temperature Guage	
		447022	3	• Lockwasher, #6 External Tooth	
		444304	3	• Nut, #6-32	
		447206	2	• Lockwasher, #8 Internal Tooth	
		444306	2	• Nut, #8-32	
	31	164081	1	Oil Pressure Gauge	
	32	366670	1	Leak Detection Horn	
	33	366984	1	Grommet	
	34	366985	1	Moulding	
	35	2811547	1	Washer	
	36	359927	1	Moulding	
	37	447224	1	Lockwasher, 5/8 Internal Tooth	
	38	404016	4	Screw, 3/8-24 x 5/8" Truss Head	
	39	366751	1	Lamp, Yellow	
	40	400302	2	Screw, 3/8-24 x 1-1/2" Hex Head	Same Service Parts as Item 30

> Change from previous revision

16.2 Tilt Steering Assembly

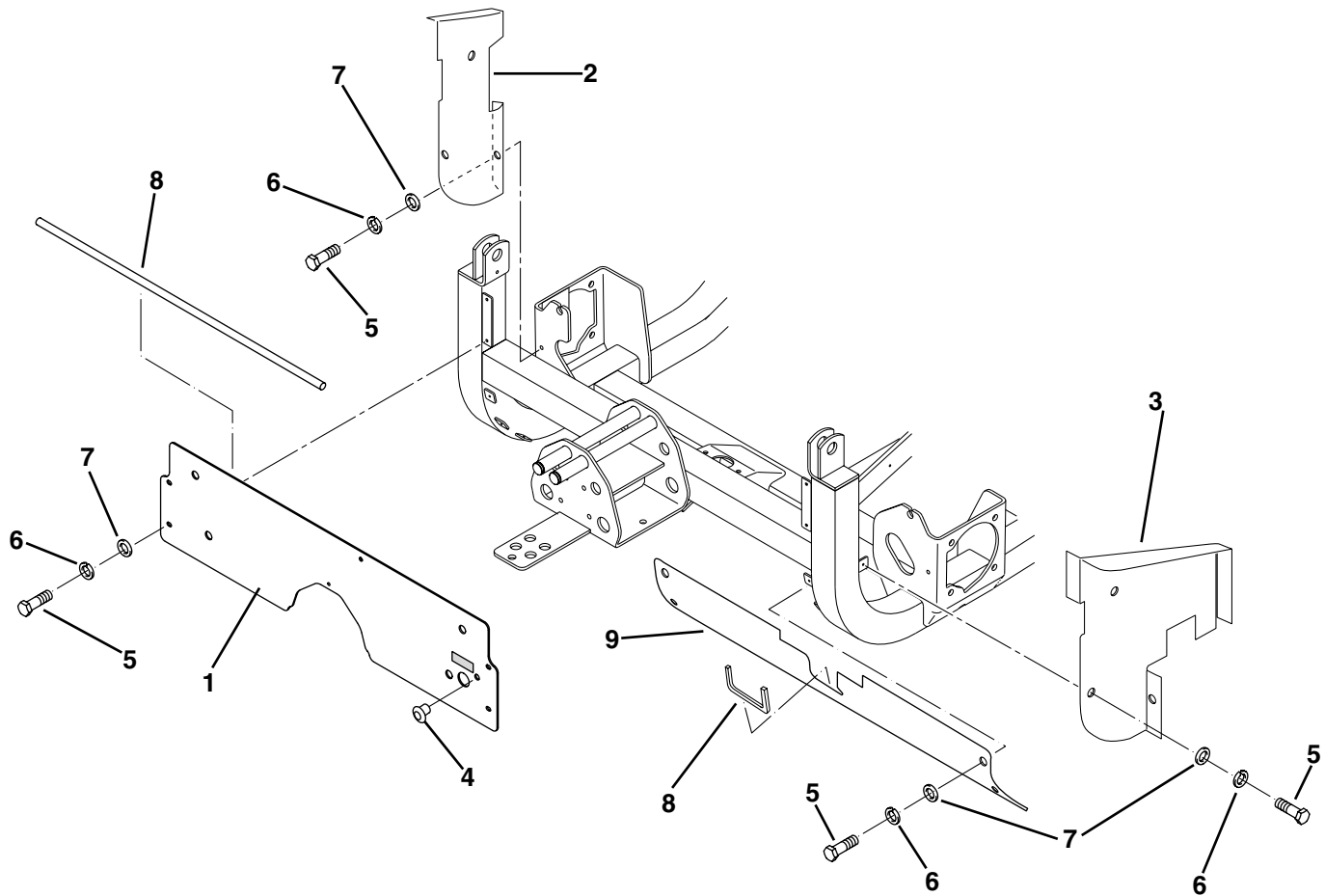
Serial No. 67827 - 2000 and Up
Serial No. 67828 - 2435 and Up



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
>	1	444754	4	Locknut, 5/16-24 Center	See 54.1
	2	117148	1	Steering Unit	
	3	443828	1	• Nut, 5/8-18 Jam	
>	4	2811364	1	Steering Wheel	
>	5	2811365	1	• Steering Wheel Cap	
	6	123120	1	Bracket Assembly, Tilt Steering	
	7	366978	1	Eyebolt	
	8	344716	1	Spring	
	9	444762	2	Locknut, 3/8-16 Center	
	10	404118	6	Screw, 3/8-16 x 7/8" Truss Head	
	11	446142	6	Lockwasher, 3/8 Heavy	
	12	443110	6	Nut, 3/8-16 Hex	
	13	452008	6	Flat Washer, 3/8	
	14	340564	2	Bracket, Pivot	
	15	340565	1	Bracket, Support	
	16	132697	1	Stop Assembly, Tilt Steering	
	17	362469	1	Clamp, Steering Tower	
	18	403753	8	Screw, 1/4-20 x 1/2" Serr Wash	
>	19	4112329	1	Panel Assembly	
	20	132699	1	Steering Tower Assembly	
	21	400112	8	Screw, 1/4-20 x 1"	
	22	452004	16	Flat Washer, 1/4	
	23	400294	2	Screw, 3/8-24 x 3/4" Hex Head	
	24	444744	4	Locknut, 3/8-24 Center	
	25	446130	8	Lockwasher, 1/4 Heavy	
	26	443102	8	Nut, 1/4-20	
	27	391101	1	Cover, Guage	
	28	444718	2	Locknut, 5/16-18 Center	
	29	365818	1	Cover, Tilt Rod	
	30	164082	1	Water Temperature Guage	
		447022	3	• Lockwasher, #6 External Tooth	
		444304	3	• Nut, #6-32	
		447206	2	• Lockwasher, #8 Internal Tooth	
		444306	2	• Nut, #8-32	
>	31	400302	2	Screw, 3/8-24 x 1-1/2" Hex Head	
	32	366670	1	Leak Detection Horn	
	33	366984	1	Grommet	
	34	366985	1	Moulding	
>	35	2811547	1	Washer	
	36	359927	1	Moulding	
	37	447224	1	Lockwasher, 5/8 Internal Tooth	
	38	404016	4	Screw, 3/8-24 x 5/8" Truss Head	
	39	366751	1	Lamp, Yellow	
>					
>					

> Change from previous revision

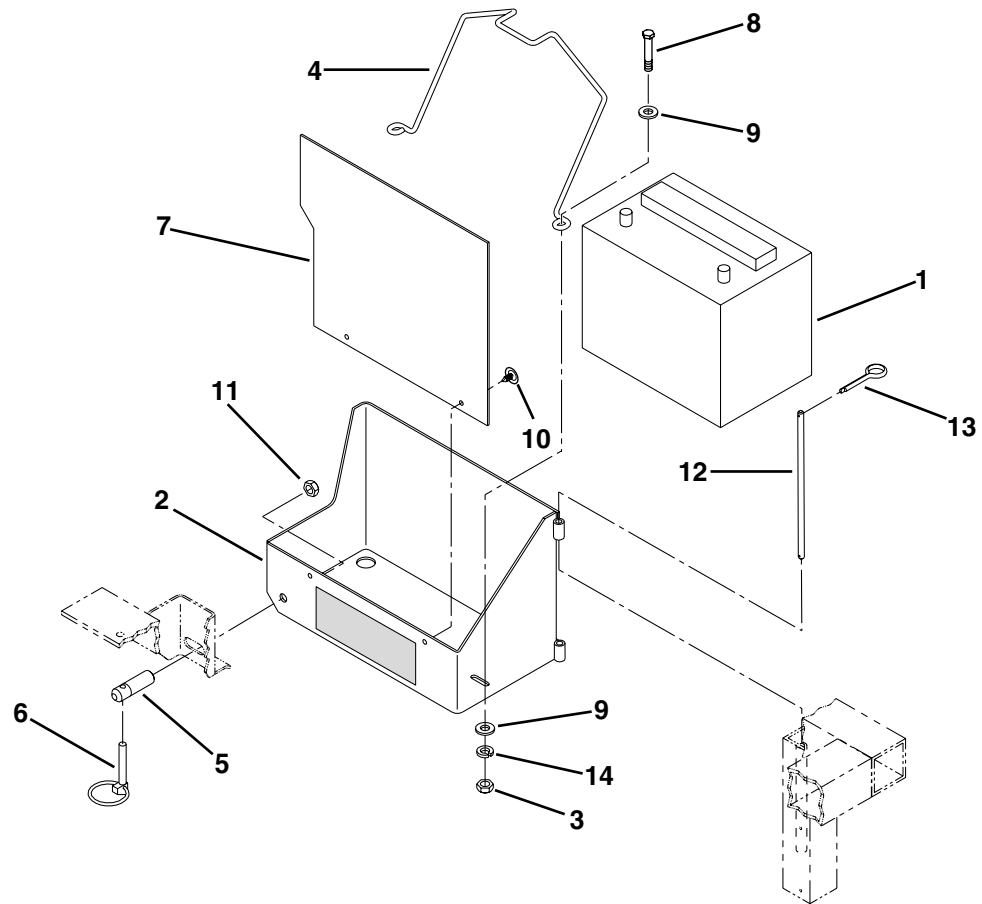
17.1 Grass Shields



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
>	1	503683	1	Mounting Plate, Bulkhead	Includes Decals
>	2	391109	1	Grass Shield, Right Side	
>	3	3000745	1	Grass Shield, Left Side	
>	4	3001751	1	Plug, Hole	
	5	400106	14	Screw, 1/4-20 x 5/8" Hex Head	
	6	446130	14	Lockwasher, 1/4 Heavy	
	7	453023	14	Flat Washer, 1/4	
	8	551651	AR	Edge Guard	
	9	340605	1	Grass Shield, Center	
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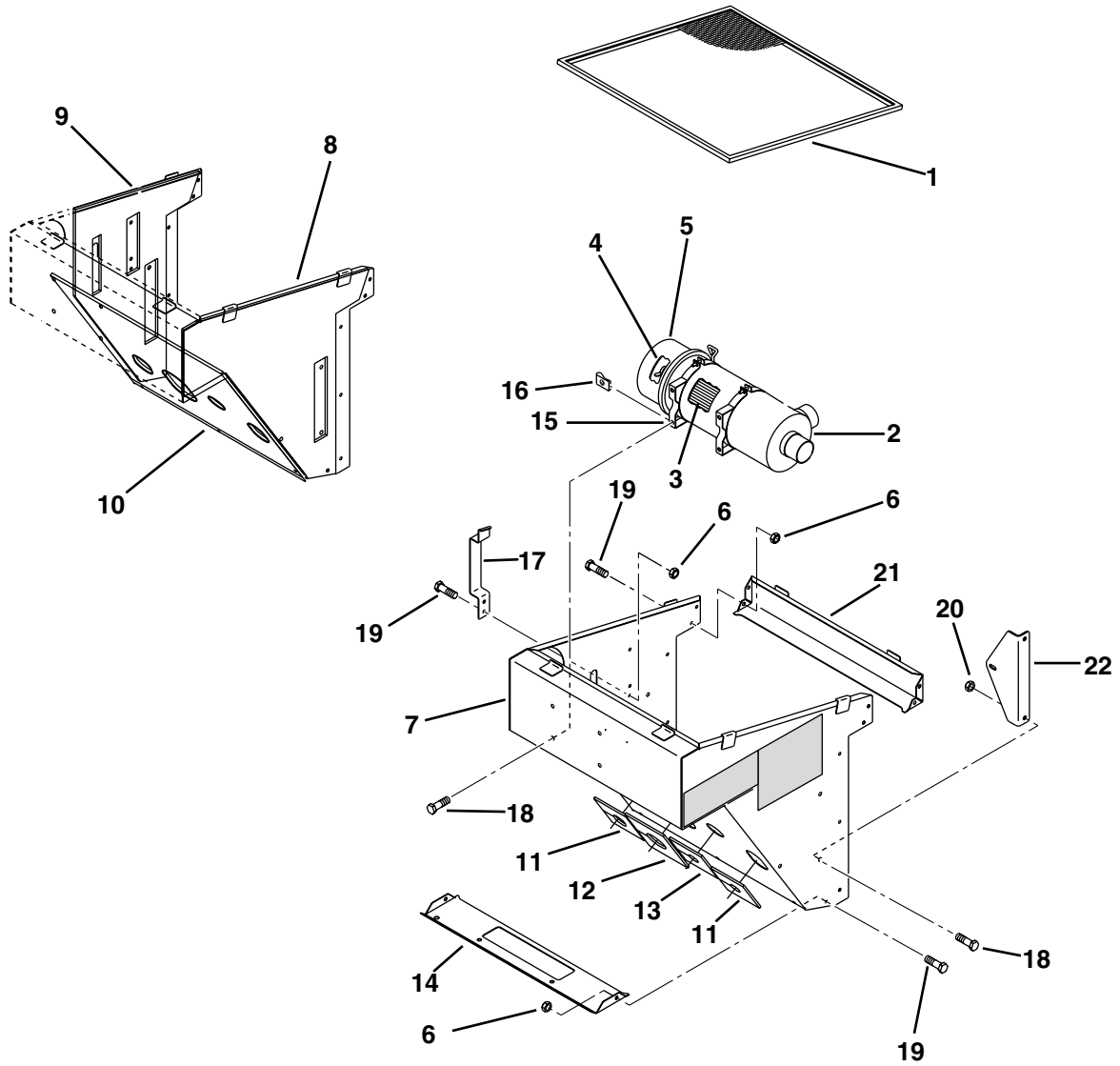
> Change from previous revision

18.1 Battery Tray



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	366931	1	Battery	
> 2	5000011	1	Tray, Battery	Includes Decal
> 3	443106	2	Nut, 5/16-16 Hex	
4	391095	1	Retainer, Battery	
5	366956	1	Pin, Battery Box	
6	342675	1	Pin, Lock	
7	340524	1	Cover, Battery	
8	400188	2	Screw, 5/16-18 x 1" Hex Head	
9	453009	4	Flat Washer	
10	3007295	2	Clip, Christmas	
11	443818	1	Nut, 1/2-13 Jam	
12	366936	1	Rod, Battery Hinge	
13	460012	2	Cotter Pin, 3/32 x 5/8"	
> 14	446136	2	Lockwasher, 5/8 Heavy	

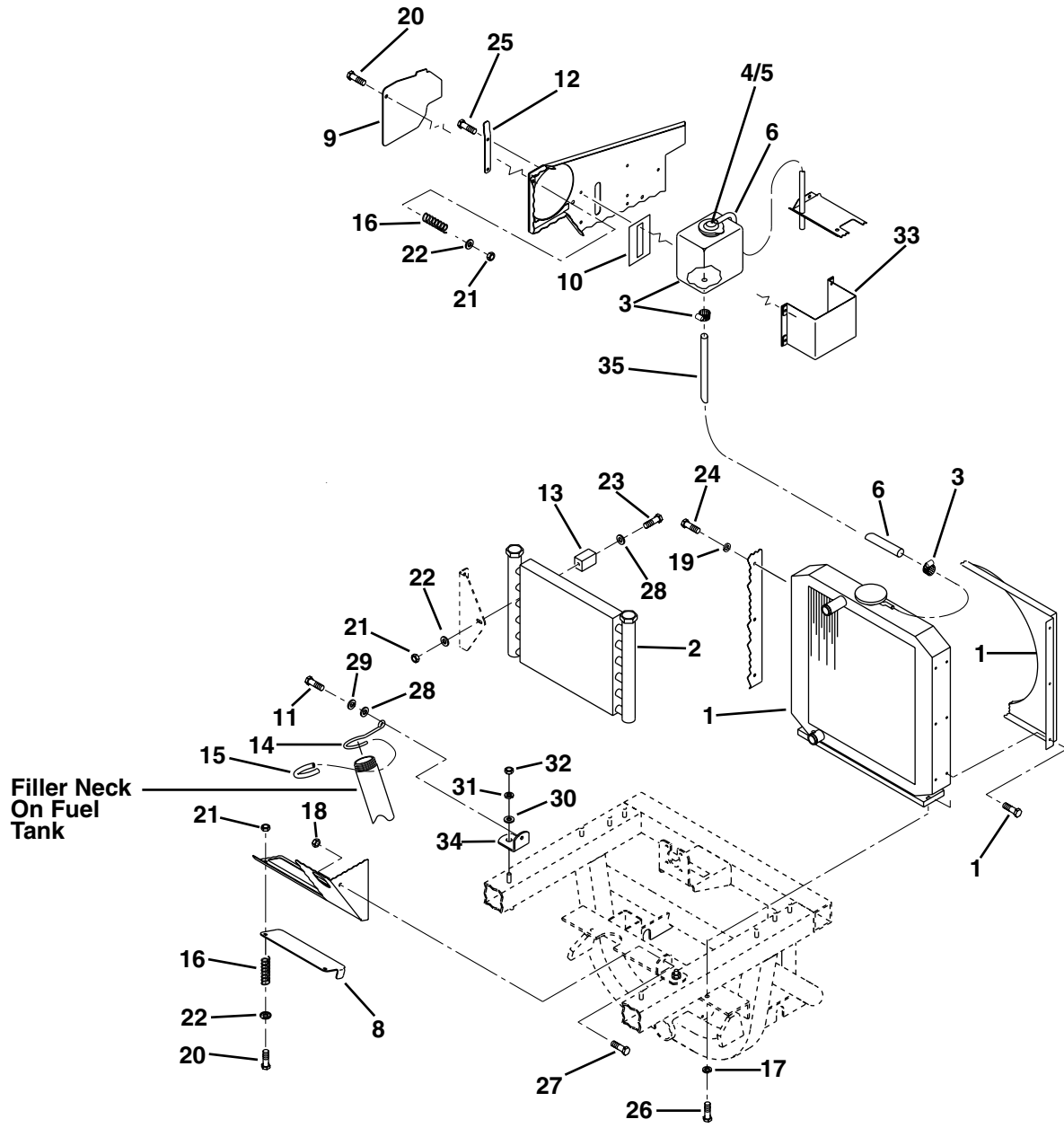
> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
	1	340487	1	Screen	
	2	116276	1	Air Cleaner	
	3	549593	1	• Element Assembly	
	4	503242	1	• Nut and Gasket	
	5	554745	1	• Cup Assembly	
>	6	445784	10	Nut, 1/4-20 Serr Wash	
	7	5002713	1	Duct Assembly	Includes Decals
	8	391119	1	• Foam, L.H. Side Air Duct	
	9	391120	1	• Foam, R.H. Side Air Duct	
	10	340633	1	• Foam, Rear Air Duct	
	11	366965	2	• Seal, Duct	
	12	366943	1	• Seal	
	13	366944	1	• Seal	
>	14	340549	1	Panel, Duct	
>	15	129902	2	Bracket, Air Cleaner Mounting	
>	16	445270	4	Nut, 5/16-18 Tinnerman Speed	
>	17	340554	1	Retainer, Screen	
>	18	403751	8	Screw, 5/16-18 x 3/4" Serr Wash	
>	19	403753	10	Screw, 1/4-20 x 1/2" Serr Wash	
>	20	445781	4	Nut, 5/16-18 Serr Wash	
	21	132790	1	Panel Assembly Duct	
	22	3006186	1	Mounting Bracket, Oil Cooler	
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> Change from previous revision

20.1 Radiator and Oil Cooler



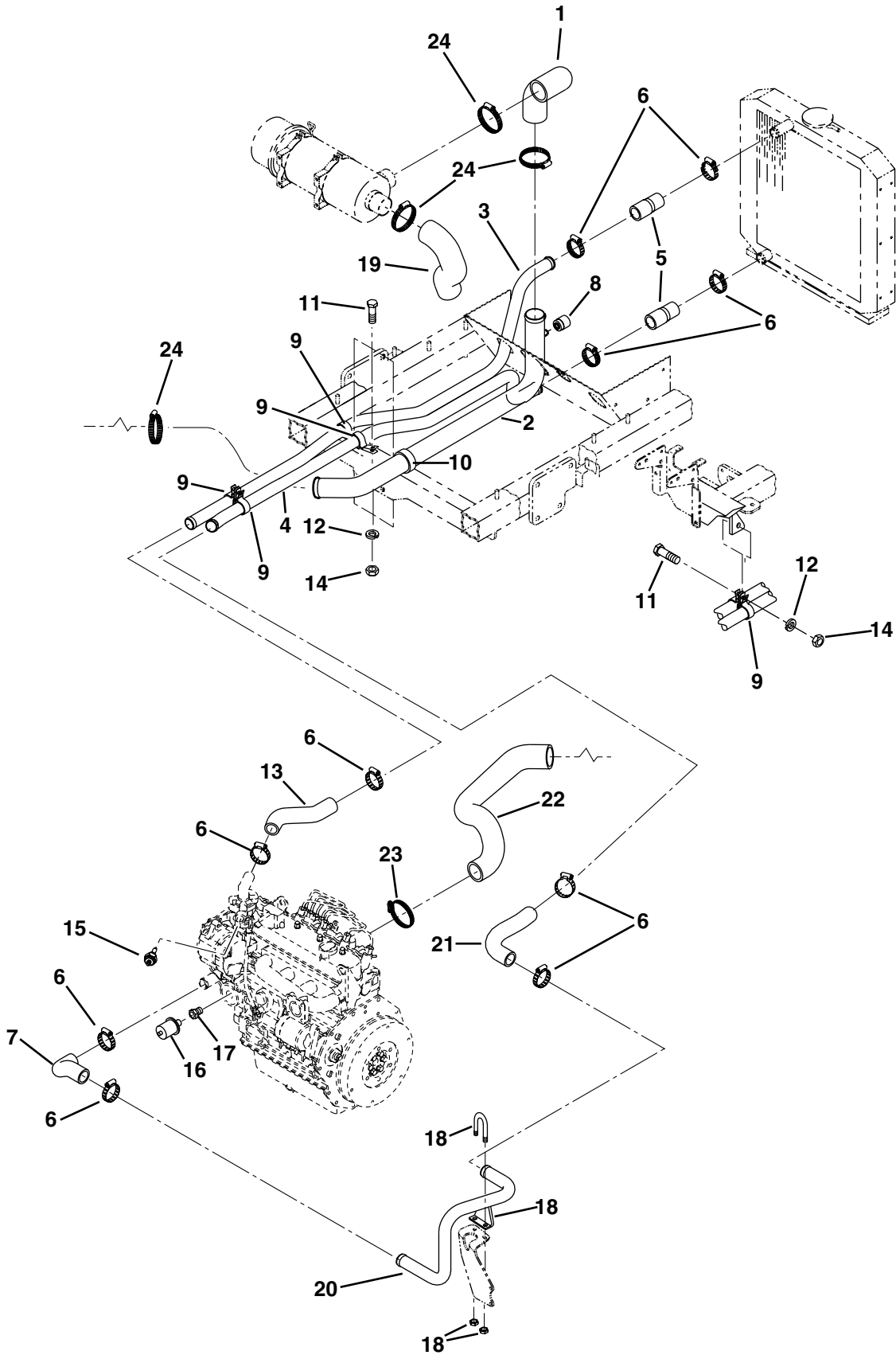
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	557983	1	Radiator	Included with Engine
2	3000338	1	Oil Cooler	
3	557637	1	Overflow Tank	
4	557984	1	• Cap	
5	557369	1	• Gasket	
6	557370	1	• Hose, Overflow Outlet	
7	553914	3	• Clamp, Hose	
> 8	366966	1	Cover, Duct	
9	3000049	1	Door, Air Cleaner Access	
10	366948	1	Seal	
11	400188	1	Screw, 5/16-18 x 1" Hex Head	
12	3000050	1	Retainer, Access Door	
13	358971	2	Rubber Block	
14	3000142	1	Rod, Filler Neck Support	
15	554751	AR	Cover, Rod	
16	365674	3	Spring, Compression	
17	446148	2	Lockwasher, 7/16 Heavy	
18	445781	2	Nut, 5/16-18 Serr Wash	
19	446130	6	Lockwasher, 1/4 Heavy	
20	400192	3	Screw, 5/16-18 x 1-1/2" Hex Head	
21	444718	5	Locknut, 5/16-18 Center	
22	453009	3	Flat Washer, 5/16	
23	400216	2	Screw, 5/16-18 x 2-3/4" Hex Head	
24	355174	6	Bolt, M6-100 x 12MM	
25	403753	4	Screw, 1/4-20 x 1/2" Serr Wash	
26	362263	2	Bolt, M10-1.25 x 25MM	
27	403751	1	Screw, 5/16-18 x 3/4" Serr Wash	
28	452006	5	Flat Washer, 5/16	
29	446136	1	Lockwasher, 5/16 Heavy	
30	452008	2	Flat Washer 3/8	
31	446142	2	Lockwasher, 3/8 Heavy	
32	443110	2	Nut, 3/8-16 Hex	
33	132694	1	Bracket, Overflow Tank	
34	340551	2	Brace, Duct Assembly	
> 35	367175	1	Hose, Radiator Overflow	

> Change from previous revision

21.1 Cooling Hose Routing

Serial No. 67827 - 1601 ~ 1999

Serial No. 67828 - 1601 ~ 2434

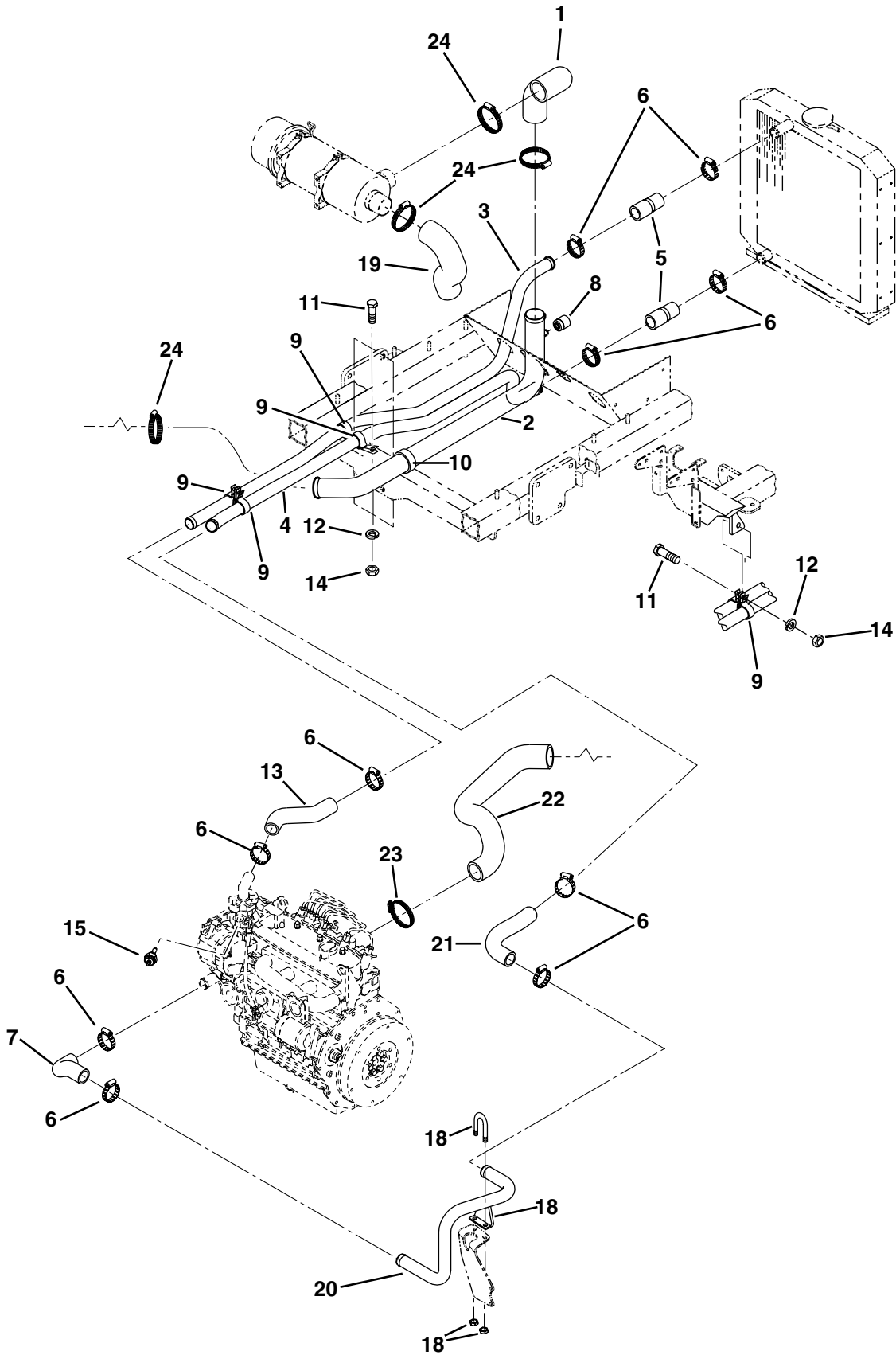


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340593	1	Hose, Air Cleaner	
2	123155	1	Tube, Air Cleaner to Engine	
3	395390	1	Tube, Upper Radiator Hose	
4	395389	1	Tube, Lower Radiator Hose Rear	
5	367072	2	Hose, Radiator	
6	367458	10	Clamp, Hose	
7	367073	1	Hose, Lower Radiator	
8	365398	1	Indicator, Air Cleaner Service	
9	365566	4	Clamp, Hose	
10	367090	1	Clamp, Hose	
11	400188	4	Screw, 5/16-18 x 1" Hex Head	
12	446136	4	Lockwasher, 5/16 Heavy	
13	340594	1	Hose, Upper Radiator	
14	443106	4	Nut, 5/16-18 Hex	
15	364501	1	Temperature Sender	
16	3002124	1	Oil Pressure Sender	
17	557985	1	Thread Adapter	
18	1002033	2	Clamp	
19	360422	1	Hose, Air Cleaner Intake	
20	391122	1	Tube, Lower Radiator Hose Front	
21	340595	1	Hose, Front to Rear Radiator Tube	
22	391106	1	Hose, Engine Air Intake	
23	326112	1	Clamp, Hose	
24	359615	4	Clamp, Hose	

> Change from previous revision

21.2 Cooling Hose Routing

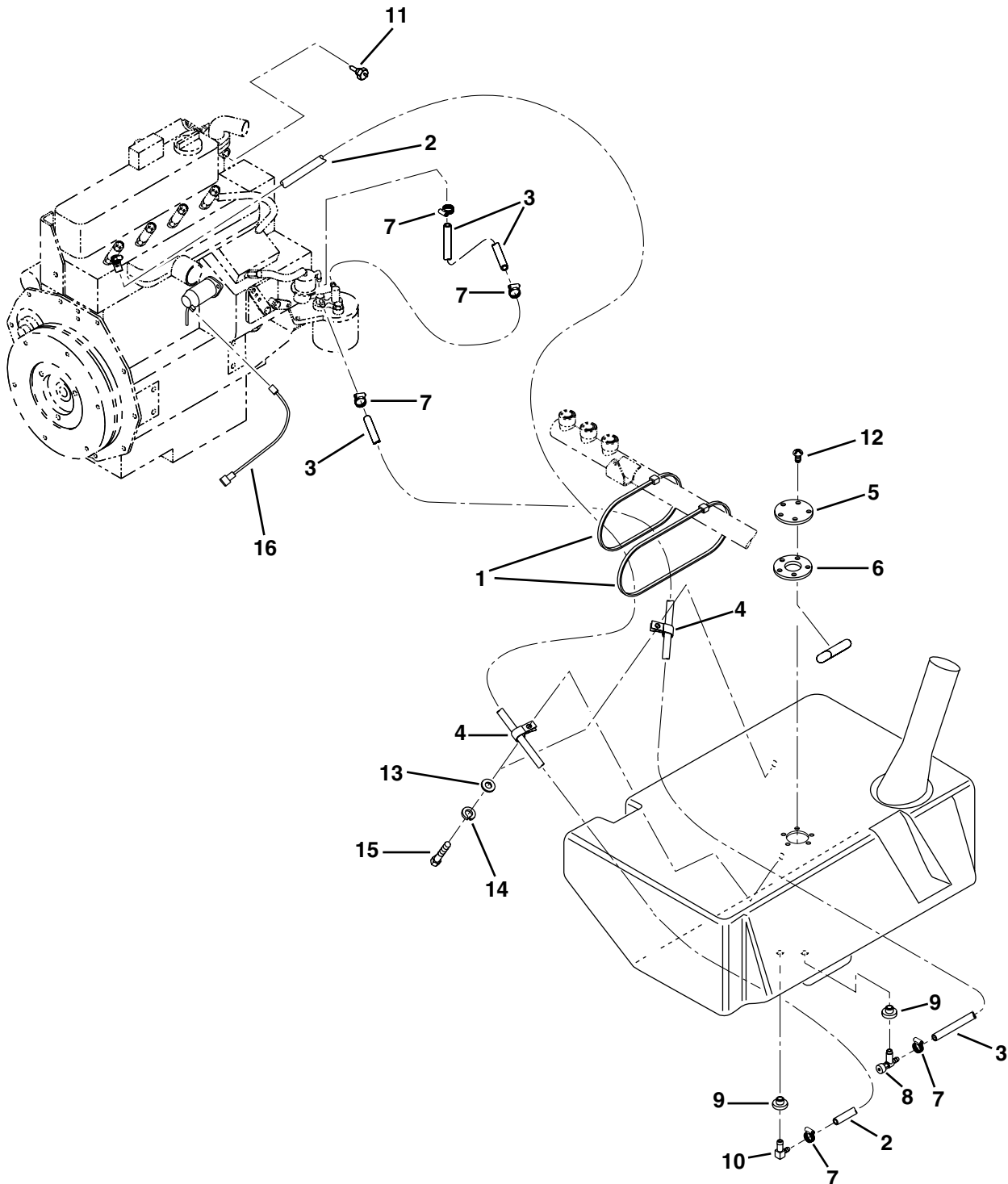
Serial No. 67827 - 2000 and Up
Serial No. 67828 - 2435 and Up



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	340593	1	Hose, Air Cleaner	
2	123155	1	Tube, Air Cleaner to Engine	
3	395390	1	Tube, Upper Radiator Hose	
4	395389	1	Tube, Lower Radiator Hose Rear	
5	367072	2	Hose, Radiator	
6	367458	10	Clamp, Hose	
7	367073	1	Hose, Lower Radiator	
8	365398	1	Indicator, Air Cleaner Service	
9	365566	4	Clamp, Hose	
10	367090	1	Clamp, Hose	
11	400188	4	Screw, 5/16-18 x 1" Hex Head	
12	446136	4	Lockwasher, 5/16 Heavy	
13	340594	1	Hose, Upper Radiator	
14	443106	4	Nut, 5/16-18 Hex	
15	364501	1	Temperature Sender	
16				
17				
18	1002033	2	Clamp	
19	360422	1	Hose, Air Cleaner Intake	
20	391122	1	Tube, Lower Radiator Hose Front	
21	340595	1	Hose, Front to Rear Radiator Tube	
22	391106	1	Hose, Engine Air Intake	
23	326112	1	Clamp, Hose	
24	359615	4	Clamp, Hose	

> Change from previous revision

22.1 Fuel Hose Routing

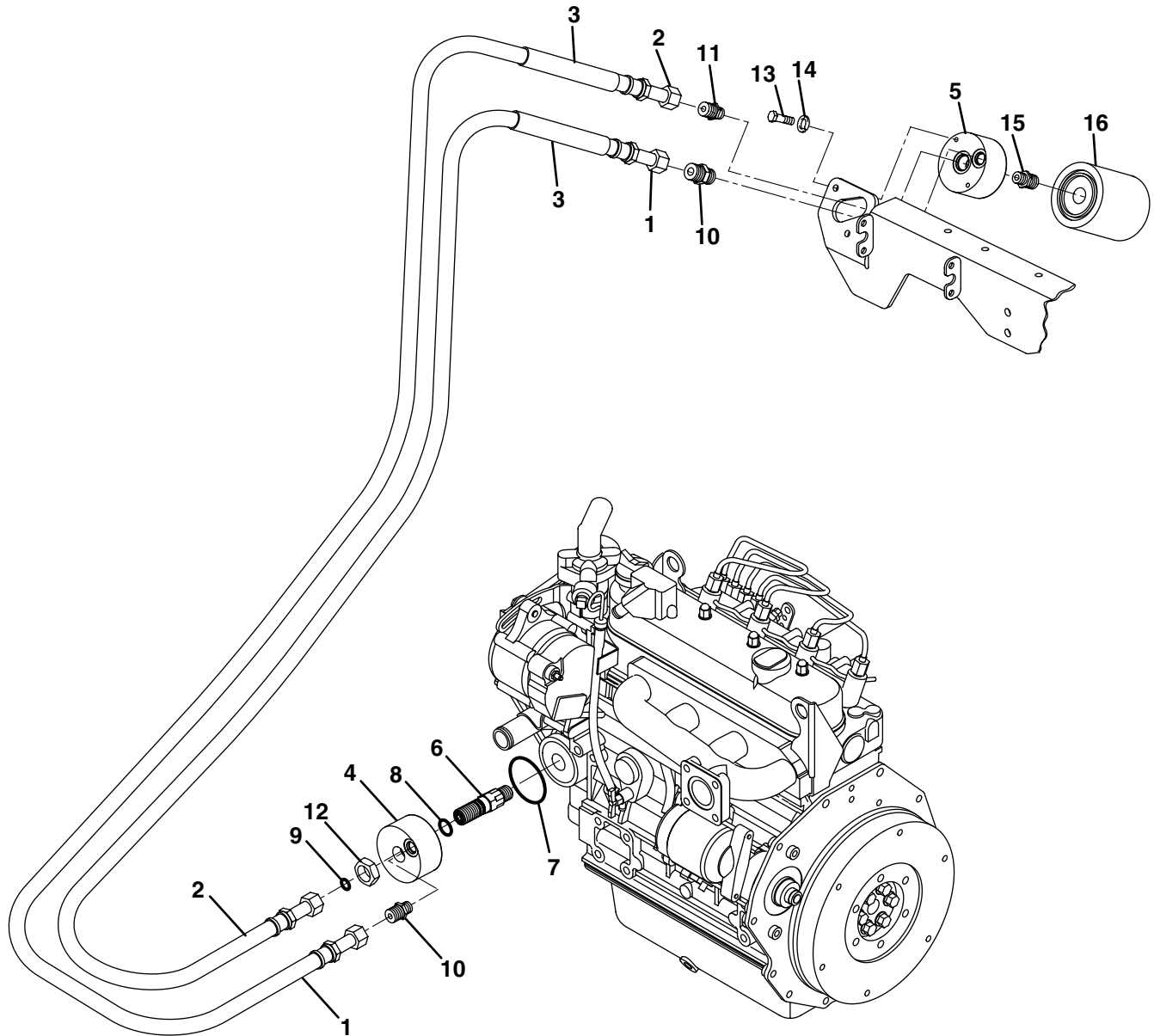


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	473164	2	Cable Tie	
2	554752	AR	Hose, 3/16 I.D. Fuel	
3	554748	AR	Hose, 5/16 I.D. Fuel	
4	366424	4	Clamp, Hose	
5	337255	1	Fuel Level Indicator	
6	326114	1	• Gasket	
7	366526	6	Clamp, Hose	
8	132647	1	Valve, Fuel Shut Off	
9	2810702	2	Bushing, Fuel Tank	
10	361748	1	Valve, Overflow	
11	367131	1	Switch, Fan Control	
12	403910	5	Screw, #10-24 x 1/2" Truss Head	
13	453023	2	Flat Washer, 1/4	
14	446130	2	Lockwasher, 1/4 Heavy	
15	400106	2	Screw, 1/4-20 x 5/8" Hex Head	
16	4111761	1	Adaptor Wire, Fuel Solenoid	

> Change from previous revision

23.1 Remote Engine Oil Filter

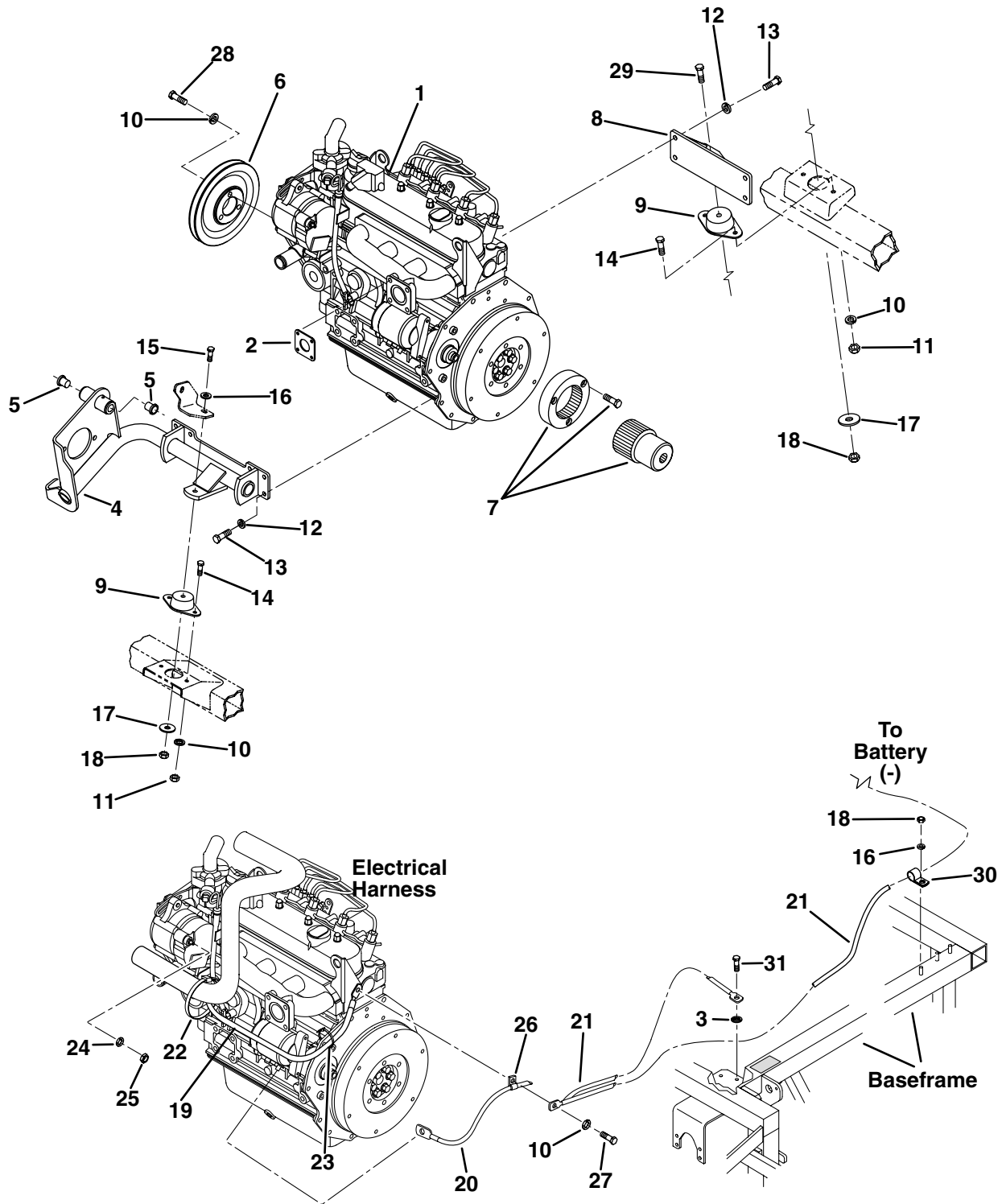
Serial No. 67827 - 1948 and Up
Serial No. 67828 - 2262 and Up



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810403	1	Hose, Remote Oil Filter	
2	2810302	1	Hose, Remote Oil Filter	
3	2811385	2	Sleeve, Hose	
4	2810405	1	Adapter, Remote Oil Filter	
5	2810404	1	Head, Remote Oil Filter	
6	2811262	1	Adapter, Oil Filter	
7	2811263	1	O-Ring, Oil Filter	
8	2811264	1	O-Ring, Adapter	
9	339910	1	O-Ring, ORFS #8	
10	339979	2	Adapter, Straight	
11	339984	1	Adapter, Straight	
12	339962	1	Locknut, Bulkhead	
13	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
14	446130	2	Lockwasher, 1/4 Heavy	
15	2810346	1	Engine Oil Filter	Included with Engine
16	555501	1	Joint, Pipe	Included with Engine
17	473142	2	Cable Tie (Not Shown)	

> Change from previous revision

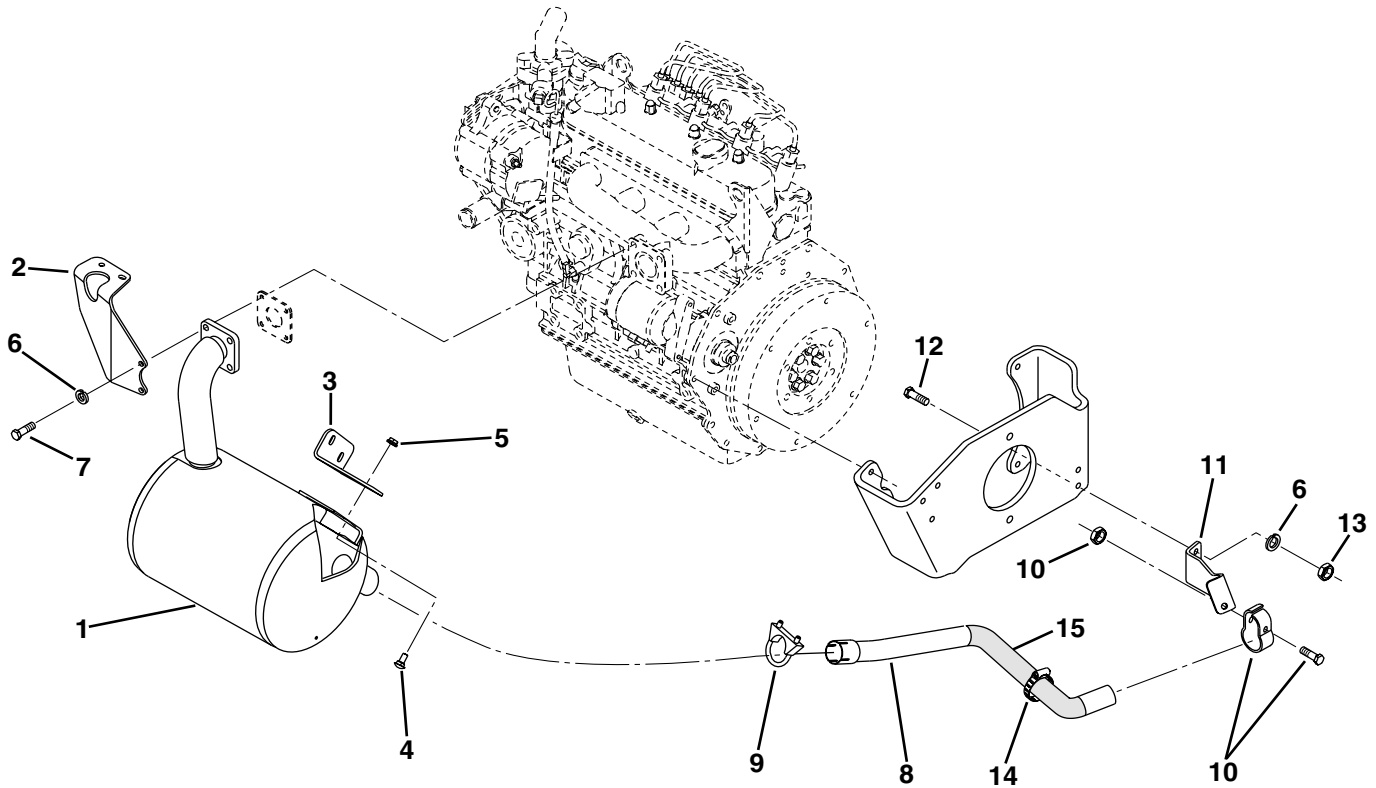
24.1 Engine Mounting



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132679	1	Engine, Kubota V-1505	
2	553020		• Muffler Gasket	
	555693	1	• Coupler, Solenoid, (Not Shown)	
	557981	1	• Assembly, Coupler, (Not Shown)	
3	447214	1	Lockwasher, 5/16 Internal Tooth	
4	1002430	1	Mounting Assembly	
5	3001043	2	• Bushing	
6	220323	1	Pulley, Engine	
7	5000026	1	Coupling Kit	
8	164106	1	Mounting Bracket, Rear of Engine	
9	366879	2	Engine, Isolator	
10	446136	8	Lockwasher, 5/16 Heavy	
11	443106	4	Nut, 5/16-18 Hex	
12	363485	12	Lockwasher, M10	
13	366884	12	Bolt, M10-1.25 x 20MM	
14	400186	4	Screw, 5/16-18 x 7/8" Hex Head	
15	400274	1	Screw, 3/8-16 x 2-1/2" Hex Head	
16	446142	1	Lockwasher, 3/8 Heavy	
17	367031	2	Flat Washer, Special	
18	444762	2	Locknut, 3/8-16 Center	
19	1004612	1	Wire Harness, Engine	Serial No 67827 - 1601 ~ 1988 Serial No 67828 - 1601 ~ 2407
19	4106321	1	Wire Harness, Engine	Serial No 67827 - 1989 ~ 1999 Serial No 67828 - 2408 ~ 2434
19	4113879	1	Wire Harness, Engine	Serial No 67827 - 2000 and Up Serial No 67828 - 2435 and Up
	558019	1	• Resistor, 75 Ohm, 1 Watt	
	367224	4	• Cover, Terminal	
20	2810624	1	Cable, Battery to Starter	
21	2810254	1	Cable, Battery to Ground	
22	473144	1	Tie, Nylon	
23	473142	3	Tie, Nylon	
24	446130	1	Lockwasher, 1/4 Heavy	
25	361001	1	Nut, M6-1	
26	360970	1	Clamp, Hose	
27	361005	1	Bolt, M8-1.25 x 25MM	
28	367540	3	Bolt, M8-1.25 x 45MM	
29	400270	2	Screw, 3/8-16 x 2" Hex Head	
30	367028	1	Clamp	
31	409811	1	Screw, 5/16-18 x 5/8" Thread Cutting	

> Change from previous revision

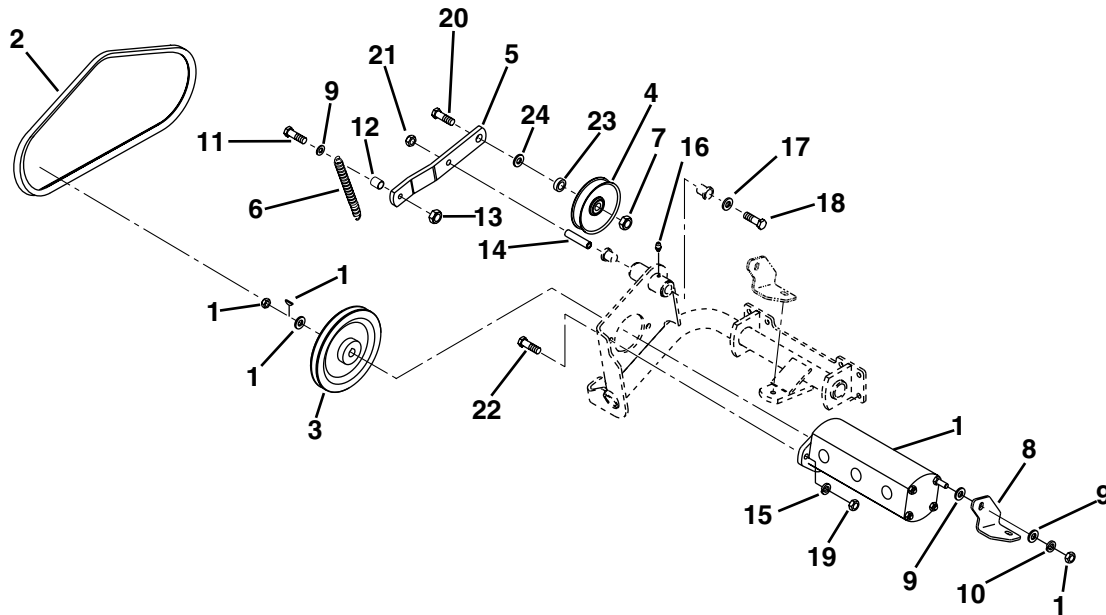
25.1 Engine Exhaust



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004256	1	Muffler	
2	3005134	1	Bracket, Tube Mounting	
3	3009245	1	Bracket, Muffler	
4	441602	2	Carriage Bolt, 5/16-18 x 3/4"	
5	445795	2	Nut, 5/16 Spirallock Flange	
6	446136	6	Lockwasher, 5/16 Heavy	
7	367080	4	Bolt, M8-1.25 x 30MM	
8	3000717	1	Pipe, Exhaust	
9	348856	1	Clamp, Muffler	
10	364902	1	Clamp	
11	3000744	1	Bracket, Tail Pipe	
12	400188	2	Screw, 5/16-18 x 1" Hex Head	
13	443106	2	Nut, 5/16-18 Hex	
14	367458	1	Clamp, Hose	
15	3010702	1	Insulating Sleeve	

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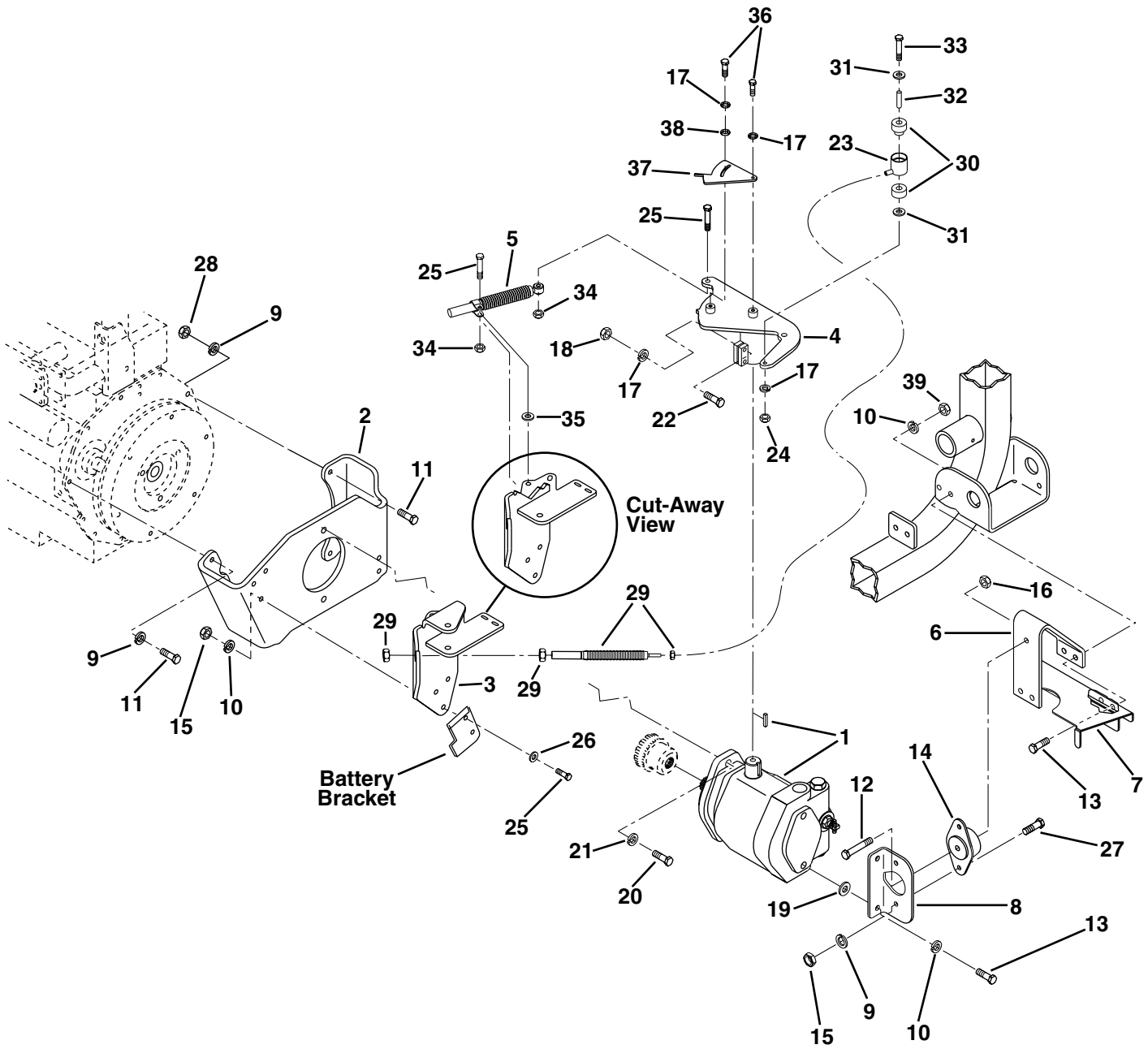
26.1 Gear Pump



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	117147	1	Pump, 3 Section, Gear	See 55.1
2	340585	1	Belt, Gear Pump	
3	220324	1	Pulley, Gear Pump	
4	3001039	1	Pulley, Idler	
5	3005292	1	Arm, Idler	
6	3004691	1	Spring, Idler	
7	444752	1	Locknut, 5/8-11 Center	
8	340710	1	Brace, Pump	
9	452008	3	Flat Washer, 3/8	
10	446142	1	Lockwasher, 3/8 Heavy	
11	400266	2	Screw, 3/8-16 x 1-1/2 Hex Head	
12	345510	2	Spacer	
13	445796	2	Nut, 3/8-16 Flange Spirallock	
14	3001089	1	Sleeve, Idler	
15	446148	2	Lockwasher, 7/16 Heavy	
16	471214	1	Grease Fitting	
17	351485	1	Flat Washer, Special	
18	400354	1	Screw, 7/16-14 x 4-1/2" Hex Head	
19	443114	2	Nut, 7/16-14 Hex	
20	400620	1	Screw, 5/8-11 x 2-1/2" Hex Head	
21	444753	1	Locknut, 7/16-14 Center	
22	400336	2	Screw, 7/16-14 x 1-1/4" Hex Head	
23	3000972	1	Spacer	
24	453020	AR	Flat Washer, 3/8	

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27.1 Traction Pump Mounting

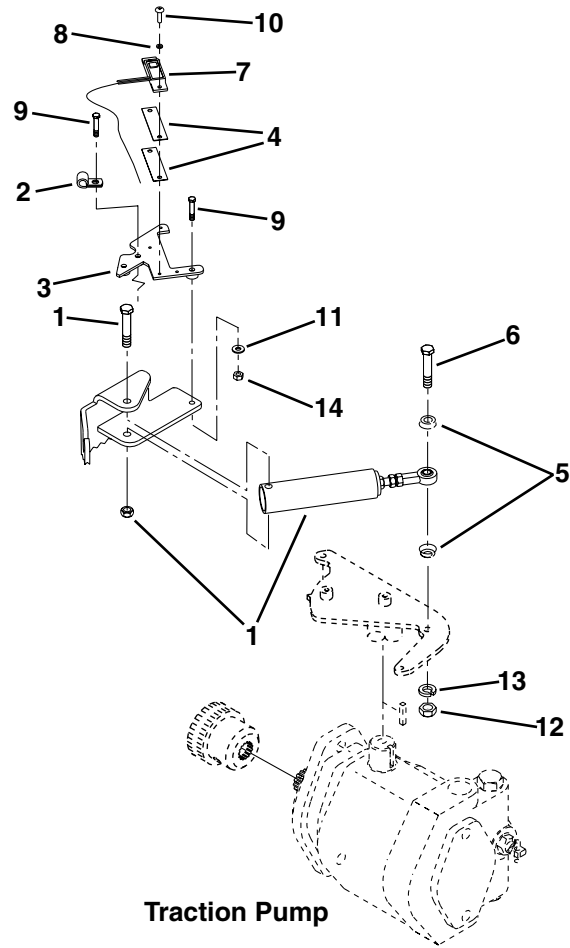


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	117140	1	Pump, Traction	See 56.1
2	395380	1	Mount, Traction Pump	
3	1004601	1	Mount Assembly, Hydro Return	
4	1001178	1	Arm Assembly, Traction Pump	
5	2500175	1	Damper Assembly, Hydro Return	
6	340583	1	Mount, Pump	
7	3000716	1	Heat Shield	
8	367118	1	Mounting Bracket, Traction Pump	
9	446136	6	Lockwasher, 3/16 Heavy	
10	446142	7	Lockwasher, 3/8 Heavy	
11	367080	4	Bolt, M8-1/25 x 30MM	
12	400270	1	Screw, 3/8-16 x 2" Hex Head	
13	400264	4	Screw, 3/8-16 x 1-1/4" Hex Head	
14	366879	1	Engine Isolator	
15	443106	5	Nut, 5/16-18 Hex	
16	443110	3	Nut, 3/8-16 Hex	
17	446130	5	Lockwasher, 1/4 Heavy	
18	445793	2	Nut, 1/4-28, Grade 8	
19	452008	2	Flat Washer, 3/8	
20	400404	2	Screw, 1/2-13 x 1" Hex	
21	446154	2	Lockwasher, 1/2 Heavy	
22	401230	2	Screw, 1/4-28 x 1-1/4" Grade 8	
23	1000011	1	Assembly, Iso Body	
24	443102	1	Nut, 1/4-20 Hex	
25	400190	5	Screw, 5/16-18 x 1-1/4" Hex Head	
26	452006	2	Flat Washer, 5/16	
27	400186	6	Screw, 5/16-18 x 7/8" Hex Head	
28	362539	2	Nut, M8-1.25 Hex	
29	1000472	1	Cable, Traction	
30	3000042	1	Bushing, Iso Mount	
31	3000038	2	Washer, Iso Mount	
32	3000039	1	Spacer, Iso Mount	
33	400122	1	Screw, 1/4-20 x 2-1/4" Hex Head	
34	444718	2	Locknut, 5/16-18 Center	
35	364582	1	Spacer	
36	400106	2	Screw, 1/4-20 x 5/8" Hex Head	
37	3008303	1	Plate, Cam Switch	
38	453023	4	Flat Washer, 1/4-20	
39	444762	1	Locknut, 3/8-16 Center	

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28.1 Traction Pump Linkage

2 Wheel Drive Units



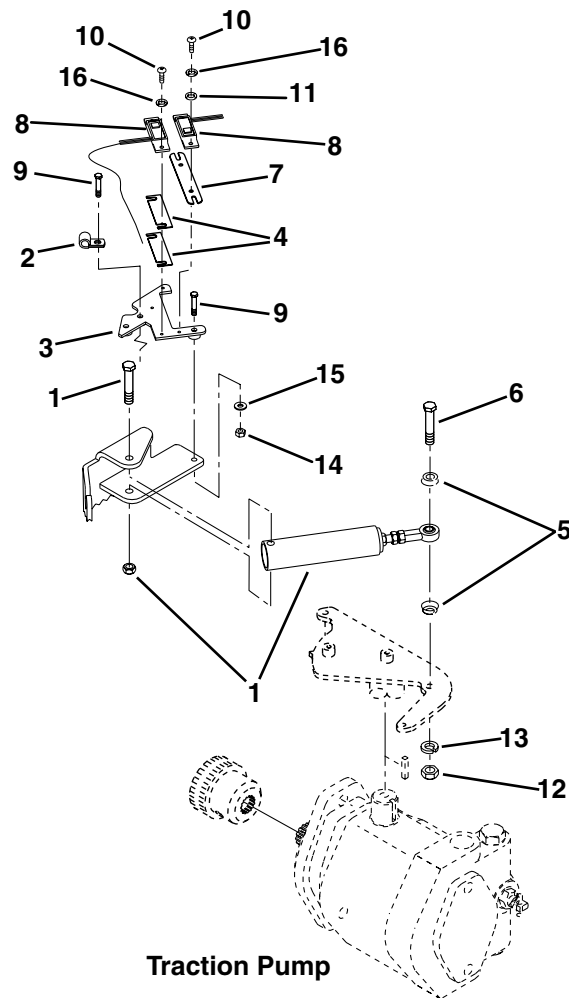
Traction Pump

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004521	1	Hydro Return	See 57.1
2	354081	1	Hose Clamp	
3	1003720	1	Mount, Switch	
4	3009193	2	Shims	
5	3004385	2	Seal, Rod Ends	
6	400264	7	Screw, 3/8-16 x 1-1/4 Hex Head	
7	3007392	1	Proximity Switch	
8	446118	4	Lockwasher, #10	
9	400112	3	Screw, 1/4-20 x 1 Hex Head	
10	403910	2	Screw, #10-24 x 1/2 Truss Head	
11	453023	5	Flat Washer, 1/4	
12	443110	5	Nut, 3/8-16 Hex	
13	446142	7	Lockwasher, 3/8 Heavy	
14	444708	3	Locknut, 1/4-20 Center	

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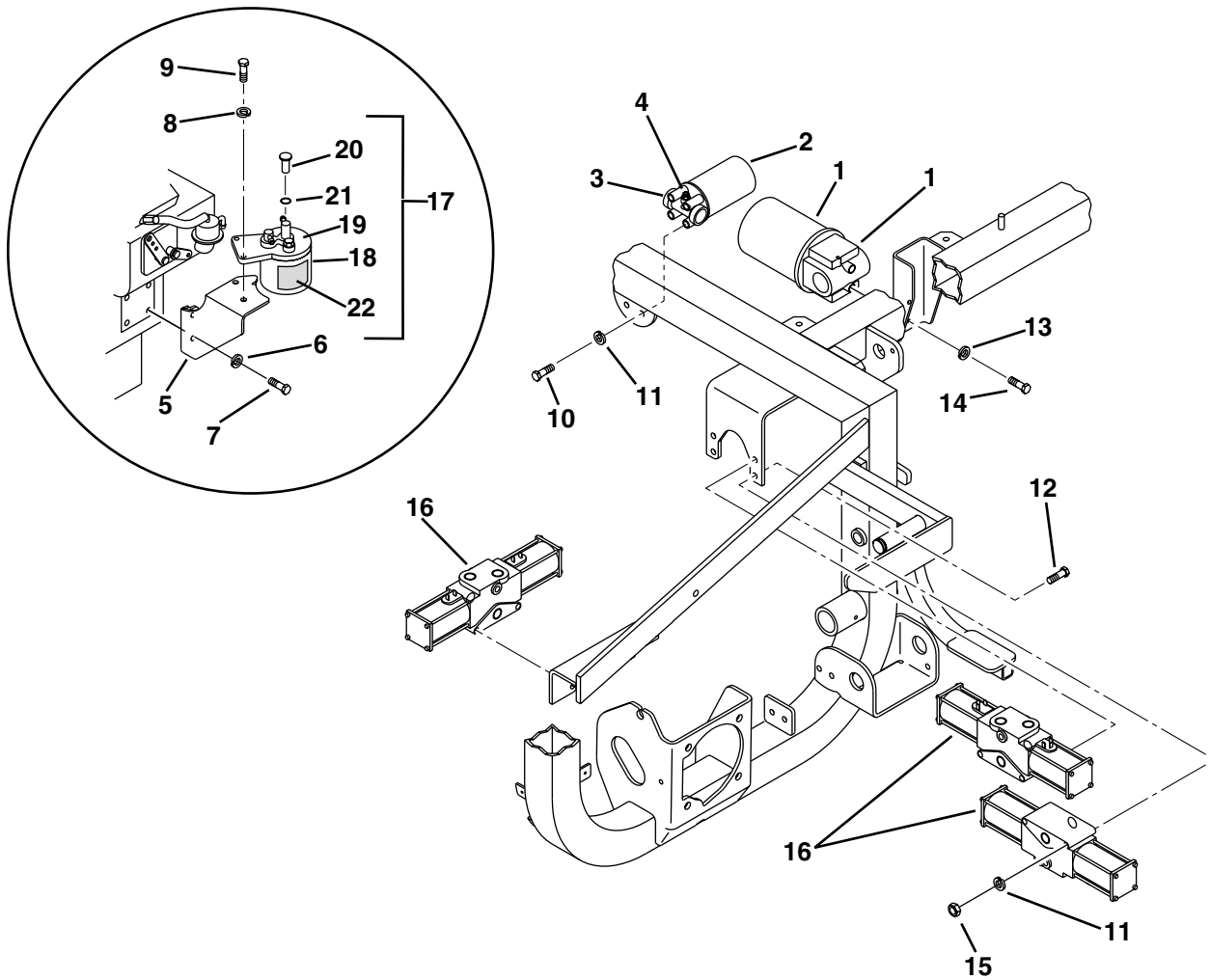
29.1 Traction Pump Linkage

4 Wheel Drive Units



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004521	1	Hydro Return	
2	3007558	1	Hose Clamp	
3	1003720	1	Mount, Switch	
4	3009193	1	Shims	
5	3004385	2	Seal, Rod End	
6	400264	1	Screw, 3/8-16 x 1-1/4" Hex Head	
7	3008417	1	Adjustment Plate	
8	3007392	2	Proximity Switch	
9	400112	3	Screw, 1/4-20 x 1" Hex Head	
10	403910	4	Screw, #10-24 x 1/2" Truss Head	
11	452002	2	Flat Washer, #10	
12	443110	1	Nut, 3/8-16 Hex	
13	446142	1	Lockwasher, 3/8 Heavy	
14	444708	3	Locknut, 1/4-20 Center	
15	453023	3	Flat Washer, 1/4	
16	446118	4	Lockwasher, #10	

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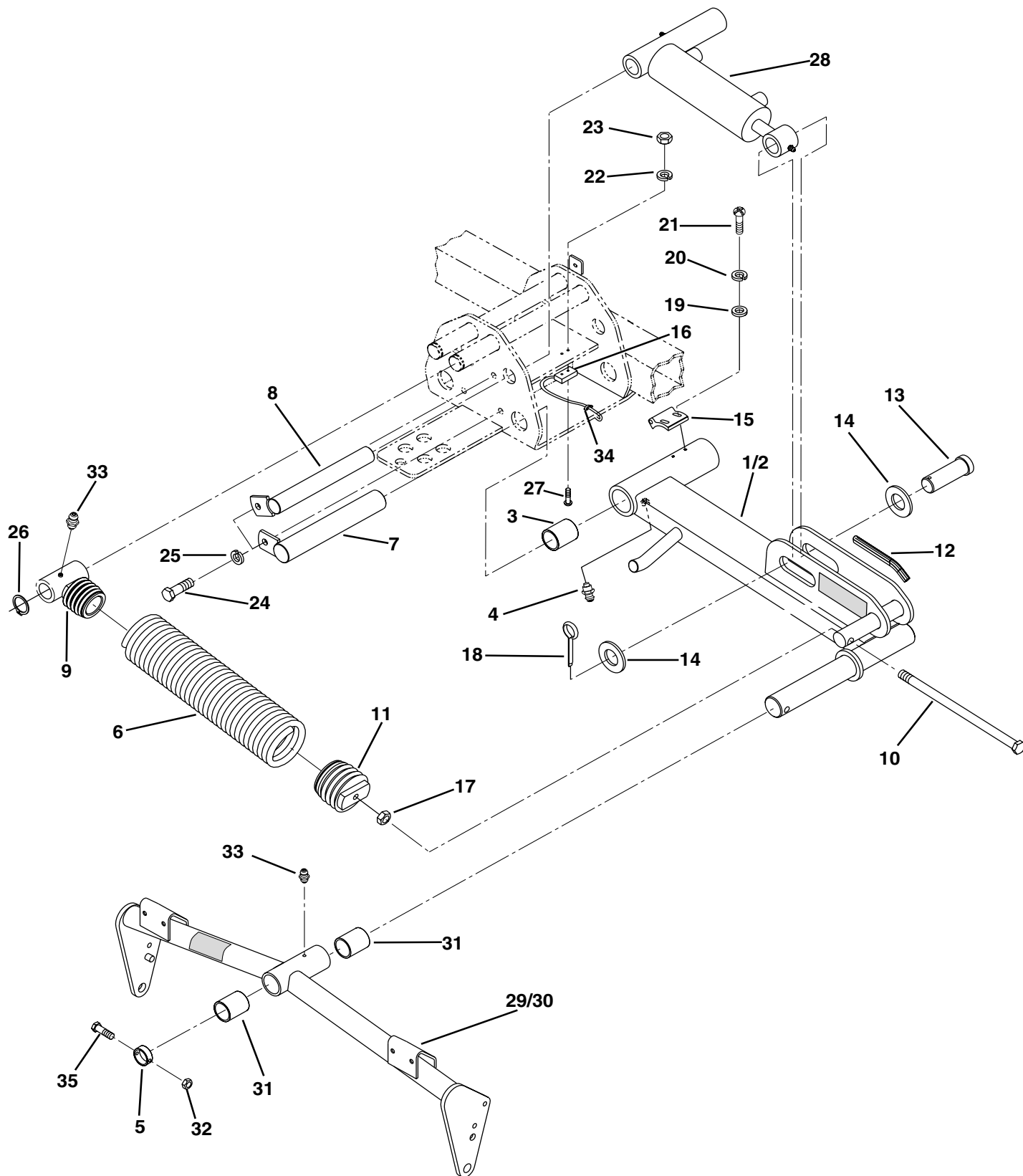


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132704	1	Oil Filter, Return	
	557772	1	• Element, Oil Filter	
	N/S	1	Oil Filter, Charge	
2	556418	1	• Cartridge, Replacement Filter	
3	556417	1	• Head Filter	
4	556419	1	• Switch, In-Oil Single Post	
5	1002006	1	Bracket, Fuel Filter Mounting	
6	363485	2	Lockwasher, M10	
7	366884	2	Bolt, M10-1.25 x 20MM	
8	446136	4	Lockwasher, 5/16 Heavy	
9	400188	2	Screw, 5/16-18 x 1" Hex Head	
10	400260	4	Screw, 3/8-16 x 7/8" Hex Head	
11	446142	10	Lockwasher, 3/8 Heavy	
12	400278	6	Screw, 3/8-16 x 3-1/2" Hex Head	
13	446130	8	Lockwasher, 1/4 Heavy	
14	400106	2	Screw, 1/4-20 x 5/8" Hex Head	
15	443110	6	Nut, 3/8-16 Hex	
16	123111	3	Reel Control Valve	
	554892	2	• Coil	
	554255	1	• Seal Kit	
>	2811856	2	• Solenoid	
17	555406	1	Fuel Filter	
18	555405	1	• Element, Filter	
19	555645	1	• Assembly, Filter Cover	
20	555646	1	• Plug, Filter	
21	555647	1	• O-Ring	
22	555648	1	• Mark, Form	

> Change from previous revision

31.1 Front Lift Arms

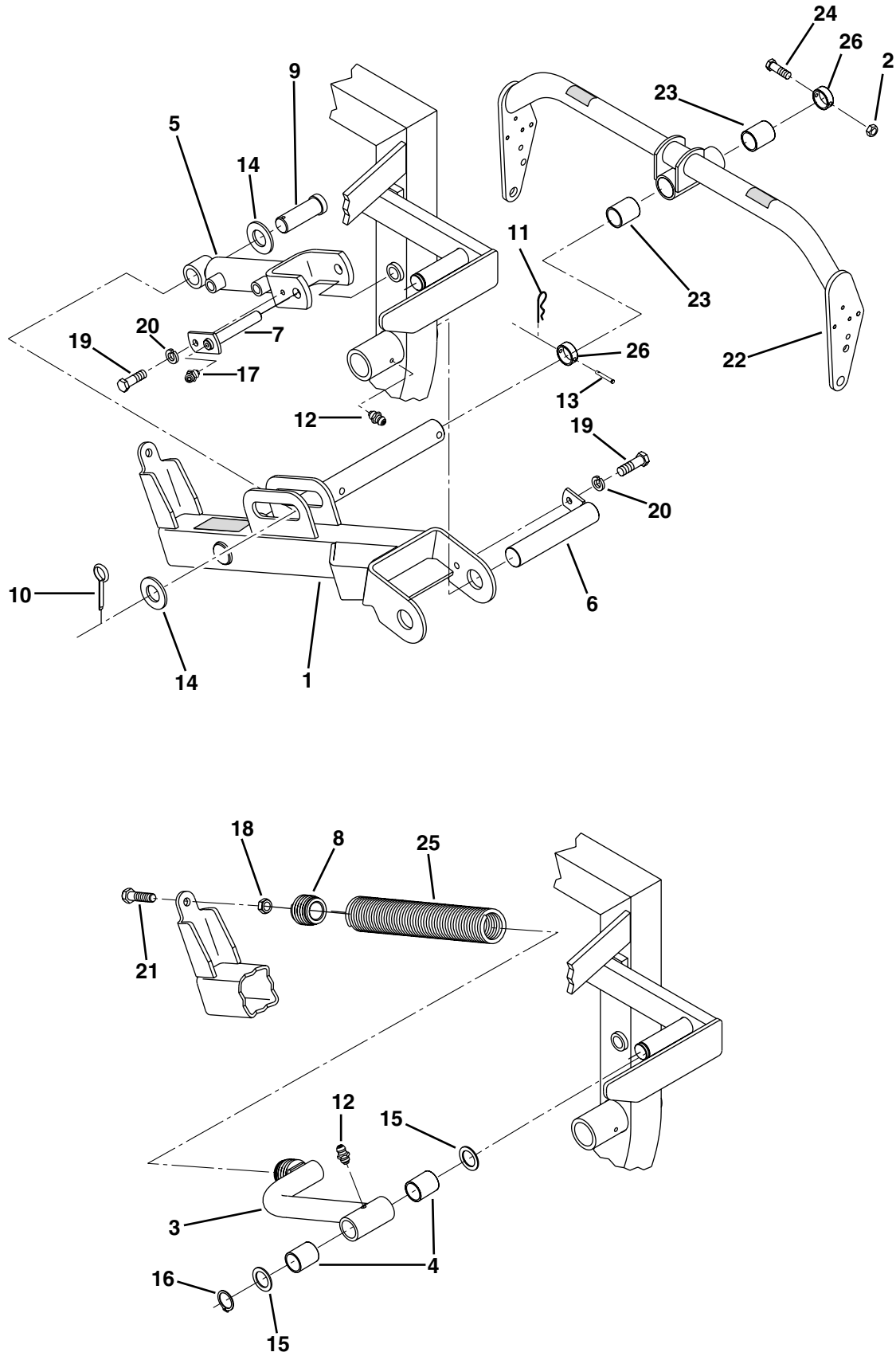
Left Front Lift Arm Shown (Right Opposite)



Item	Part No.	Qty.	Description	Serial Numbers/Notes	
	1	5000933	1	Lift Arm, L.H. Front (Shown)	Includes Decal
	2	5000934	1	Lift Arm, R.H. Front, (Not Shown)	Includes Decal
>	3	360460	2	• Bushing	
>	4	471214	3	• Grease Fitting	
	5	364248	2	Collar	
	6	3008962	1	Spring, Lift	
	7	164087	1	Pin, Arm	
	8	164091	11	Pin, Cylinder	
	9	164090	1	Plug, Assembly, Spring	
	10	366930	1	Bolt, spring	
	11	340567	1	Plug, Spring	
	12	557620	AR	Moulding	
	13	3005577	3	Pin, Cylinder	
	14	455004	2	Flat Washer	
	15	367149	2	Actuator, Wing	
	16	366989	2	Switch	
	17	443814	1	Nut, 7-1/16-14 Jam	
	18	460052	2	Cotter Pin, 3/16 x 1-1/2"	
	19	452002	4	Flat Washer, #10	
	20	446118	4	Lockwasher, #10 Heavy	
	21	402118	4	Screw, #10-24 x 1/2" SI Round Head	
	22	446102	4	Lockwasher, #4	
	23	444302	4	Nut, #4-40	
	24	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
	25	446142	6	Lockwasher, 3/8 Heavy	
	26	458039	2	Retaining Ring, External	
	27	403766	4	Screw, #4-40 x 3/4" SI Pn Brass	
	28	340566	2	Cylinder, Lift	
		557766	1	• Seal Repair Kit (Gold Star Cylinder)	
		5003664	1	• Seal Repair Kit (HDM Cylinders)	
>	29	5000018	1	L.H. Front Lift Yoke	Includes Decal
>	30	5000019	1	R.H. Front Lift Yoke (Not Shown)	Includes Decal
>	31	366870	2	• Bushing	
>	32	444762	2	Locknut, 3/8-16 Center	
	33	471214	4	Grease Fitting	
	34	473164	2	Cable Tie	
>	35	400272	2	Screw, 3/8-16 x 2-1/4" Hex Head	
>					

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32.1 Center Lift Arm

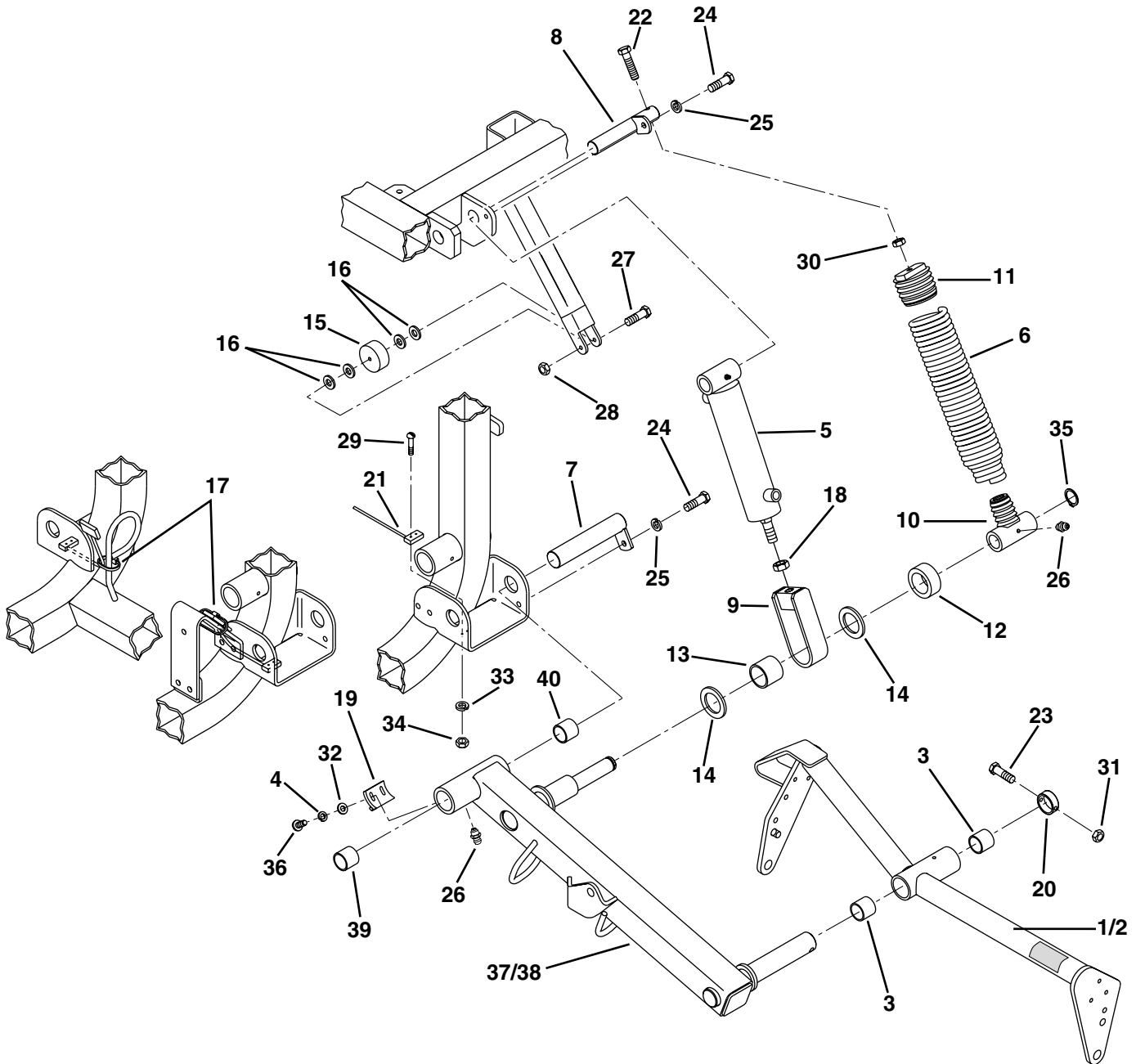


Item	Part No.	Qty.	Description	Serial Numbers/Notes		
	1	5002150	1	Lift Arm, Center	Includes Decals	
>	2	444762	1	Locknut, 3/8-16 Center		
	3	123125	1	Plug Assembly, Spring		
	4	365001	2	• Bushing		
	5	340523	1	Cylinder, Lift-For Seal Repair Kit		
		557767	1	• Seal Repair Kit (Gold Star Cylinder)		
		5003658	1	• Seal Kit (HDM Cylinders)		
	6	164089	1	Pin Assembly		
	7	1002005	1	Pin Assembly, Cylinder 1		
	8	340575	1	Plug, Spring		
	9	3005577	3	Pin, Cylinder		
	10	460052	2	Cotter Pin, 3/16x 1-1/2"		
	11	460312	1	Hair Pin		
	12	471214	3	Grease Fitting		
	13	325690	1	Pin, Clevis		
	14	455004	2	Flat Washer		
	15	347985	2	Flat Washer		
	16	458039	2	Retaining Ring, External		
	17	471227	1	Grease Fitting, 45°		
	18	443814	1	Nut, 7/16-14 Jam		
	19	400258	2	Screw, 3/8-16 x 3/4" Hex Head		
	20	446142	2	Lockwasher, 3/8 Heavy		
	21	366930	1	Bolt, Spring		
	22	5000017	2	Center Lift Yoke		Includes Decal
	23	366870	2	• Bushing		
>	24	400272	1	Screw, 3/8-16 x 2-1/4" Hex Head		
	25	3008963	1	Spring, Lift		
	26	364248	6	Collar		
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33.1 Wing Lift Arms

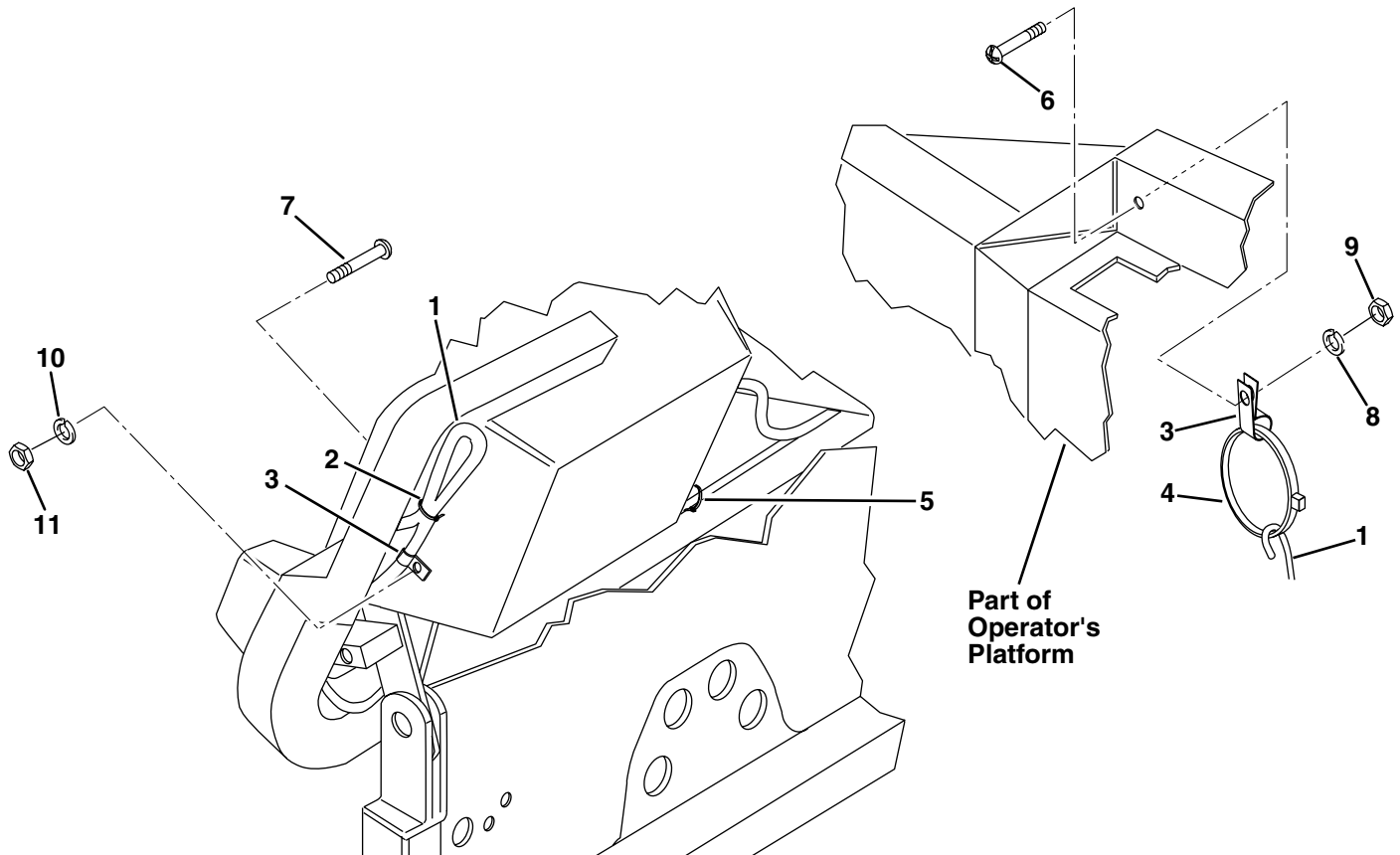
Left Rear Wing Lift Arm Shown (Right Opposite)



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5000015	1	L.H.Wing Lift Yoke	Includes Decal
2	5000016	1	R.H. Wing Lift Yoke (Not Shown)	Includes Decal
3	366870	2	• Bushing	
4	446118	4	Lockwasher, #10 Heavy	
5	340522	1	Cylinder, Lift	
	557766	1	• Seal Repair Kit (Gold Star)	
	5003664	1	• Seal Repair Kit (HDM Cylinders)	
	360460	2	• Bushing	
6	3008961	2	Spring, Lift	
7	164089	1	Pin Assembly	
8	164093	2	Pin Assembly, Cylinder	
9	164088	1	Bracket Assembly Lift	
10	164092	2	Plug Assembly, Spring	
11	340574	2	Plug, Spring	
12	367001	2	Spacer, Spring Pivot	
13	366875	2	Bushing	
14	367024	4	Spacer, Wing	
15	3005676	2	Wheel	
16	453023	8	Flat Washer, 1/4	
17	473164	2	Tie, Nylon	
18	443832	2	Nut, 3/4-16 Jam	
19	367149	2	Actuator, Magnet	
20	364248	2	Collar	
21	366989	2	Switch, Reed	
22	366930	1	Bolt, Spring	
23	400272	2	Screw, 3/8-16 x 2-3/4" Hex Head	
24	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
25	446142	6	Lockwasher, 3/8 Heavy	
26	471214	3	Grease Fitting	
27	400118	2	Screw, 1/4-20 x 1-3/4" Hex Head	
28	444708	2	Nut, 1/4-20 Center Lock	
29	403766	4	Screw, #4-40 x 3/4" Slotted Brass	
30	443814	1	Nut, 7/16-14 Jam	
31	444762	2	Locknut, 3/8-16 Center	
32	452002	4	Flat Washer, #10	
33	446102	4	Lockwasher, #4	
34	444302	4	Nut, #4-40	
35	458039	2	Retaining Clip, External	
36	402118	4	Screw, #10-24 x 1/2" Slotted Head	
37	1001188	1	Lift Arm, L.H. Wing	
38	1001189	1	Lift Arm R.H. Wing (Not Shown)	
39	360460	2	• Bushing	

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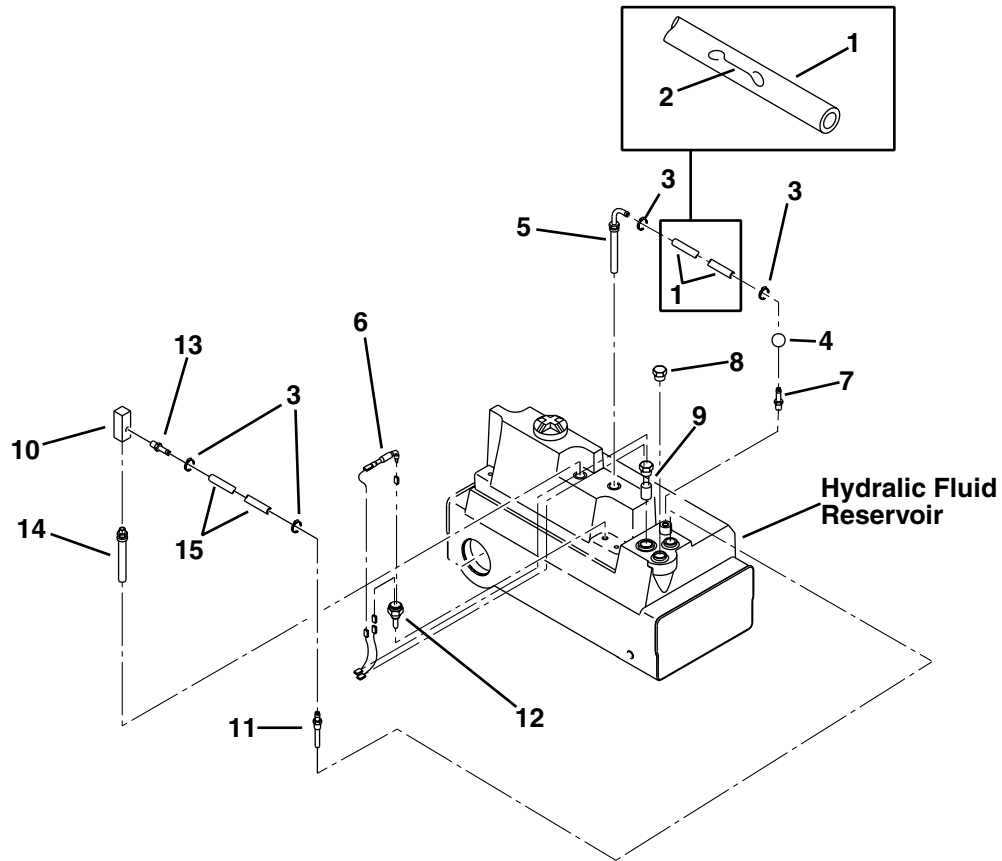
34.1 Body Harness



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004649	1	Wire Harness, Body	Serial No 67827 - 1601 ~ 1988 Serial No 67828 - 1601 ~ 2407
1	4106322	1	Wire Harness, Body	Serial No 67827 - 1989 ~ 1999 Serial No 67828 - 2408 ~ 2434
1	4113878	1	Wire Harness, Body	Serial No 67827 - 2000 and Up Serial No 67828 - 2435 and Up
	558018	1	• Diode Plug	
2	473164	3	Tie, Nylon	
3	366424	2	Clamp, Hose	
4	473144	1	Tie, Nylon	
5	473142	3	Tie, Nylon	
6	404022	1	Screw, 1/4-20 x 1" Truss Head	
7	404118	1	Screw, 3/8-16 x 7/8" Truss Head	
8	446130	6	Lockwasher, 1/4 Heavy	
9	443102	6	Nut, 1/4-20 Hex	
10	443110	5	Nut, 3/8-16 Hex	
11	446142	5	Lockwasher, 3/8 Heavy	

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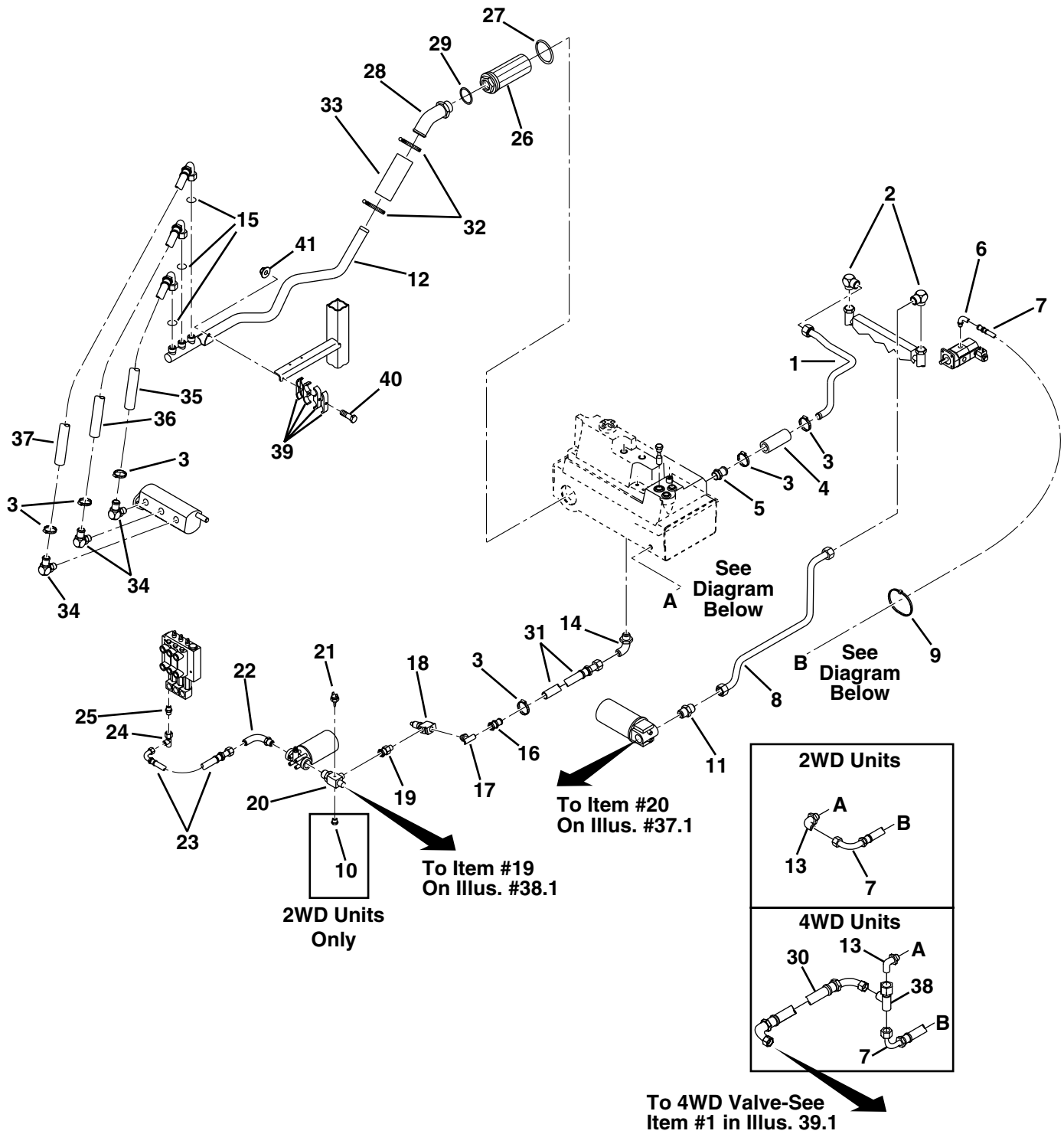
35.1 GreenSentry



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001277	1	Hose	
2	367320	1	Stop, Check Ball	
3	359611	4	Clamp, Hose	
4	465006	1	Ball, Check	
5	367122	1	Fitting, Adjustable	
6	367092	1	Resistor, 220 Ohm, 25 Watt	
7	366672	1	Fitting, Male Push Hose	
8	360651	1	Plug, 7/8-14	
9	3001279	1	Switch, Float	
10	3000647	1	Flow Switch	
11	3001275	1	Spud	
12	366753	1	Temperature Sender	
13	3001278	1	Fitting, Male Barbed	
14	367123	1	Adapter, Straight	
15	3001276	1	Hose	

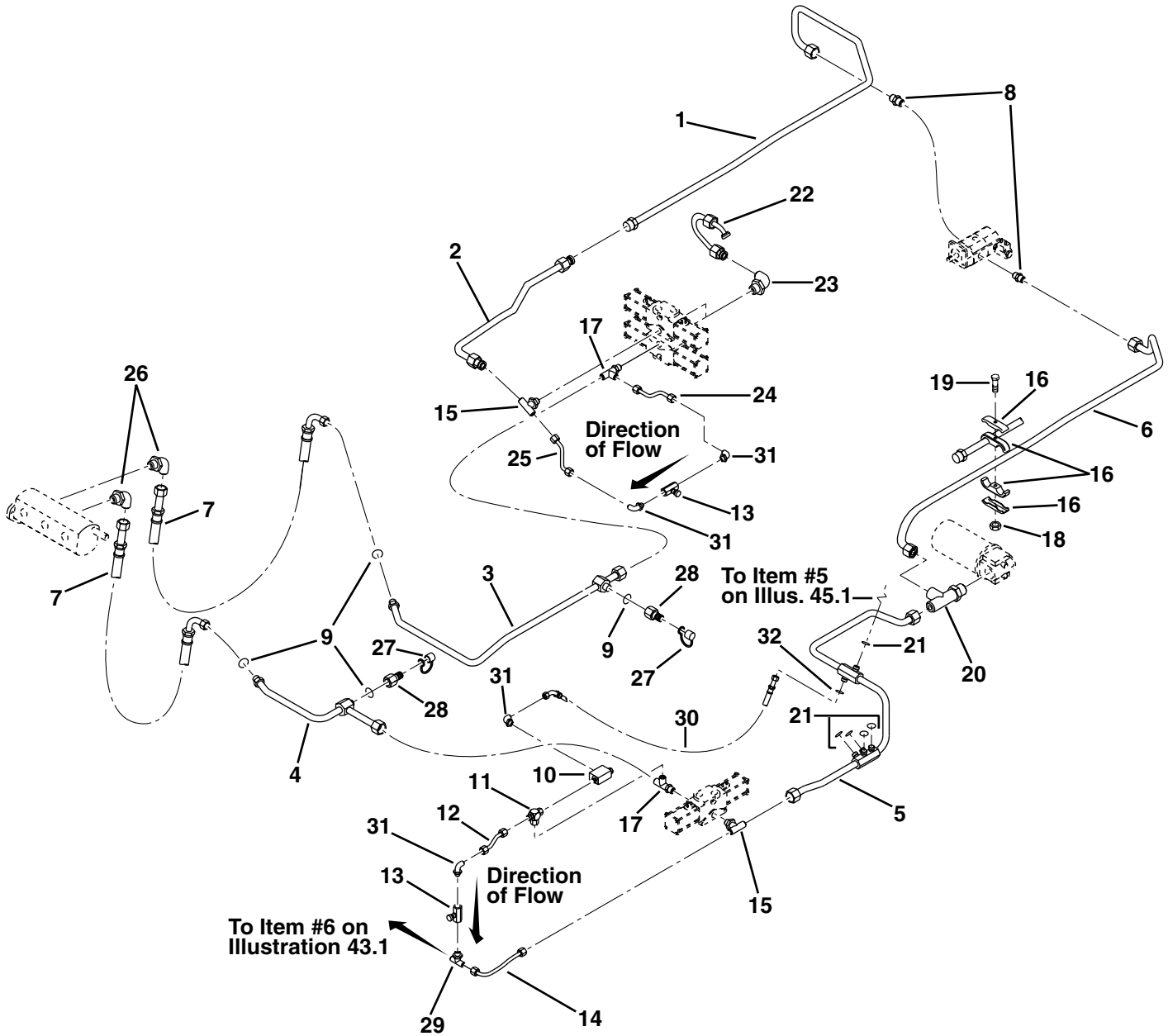
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36.1 Tank Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000190	1	Tube, Oil Cooler to Tank	
2	340077	2	Adaptor, 90°	
3	319914	6	Clamp, Hose	
4	353954	1	Hose, Tank Return	
5	3001296	1	Fitting, Male Beaded Insert	
6	340055	1	Adaptor, 90°	
7	132762	1	Hose, Fan Moter Case Drain	
8	1000189	1	Tube, Return Filter to Oil Cooler	
9	473164	1	Tie, Nylon	
10	154962	1	Plug, 7/16-20	2WD Units Only
11	339999	1	Adaptor, Straight	
12	117206	1	Tube, Gear Pump Inlet Manifold	
13	340057	1	Adaptor, 90°	
14	340074	1	Adaptor, 90°	
15	339912	3	O-Ring	
16	367120	1	Stem, Female Straight	
17	340103	1	Tee, Branch	
18	340521	12	Relief Valve	
	5003578	1	• Seal Kit, (Hydroforce)	
	557758	1	• Seal Kit, (Delta)	
19	367130	1	Adaptor, Female	
20	3000472	1	Tee, Run	
21	3006476	1	Charge Switch	
22	340082	1	Adaptor, 90°	
23	132761	1	Hose, Liftn Valve to Charge Filter	
24	340120	1	Tee, Swivel Nut Run	
25	339984	1	Adaptor, Straight	
26	365959	1	Strainer, Tank	
27	2812075	1	• O-Ring	
28	366935	1	Beaded Insert	
29	339903	1	• O-Ring	
30	1000194	1	Hose, 4WD Valve to Tank	
31	132742	1	Hose, Relief Valve to Tank	
32	326112	2	Clamp, Hose	
33	367109	1	Hose, Pump Suction	
34	3001025	3	Elbow, Beaded	
35	132729	1	Hose, Inlet Manifold to Front Section	
36	132730	1	Hose, Inlet Manifold to Center Section	
37	132721	1	Hose, Inlet Manifold to Rear Section	
38	340118	1	Adapter, Tee	4WD Units Only
39	367186	1	Clamp, 2 Hose	Remote Oil Filter Hoses
40	400120	1	Screw, 1/4-20 x 2" Hex Head	
41	445794	1	Nut, 1/4-20 Spiralock Flange	

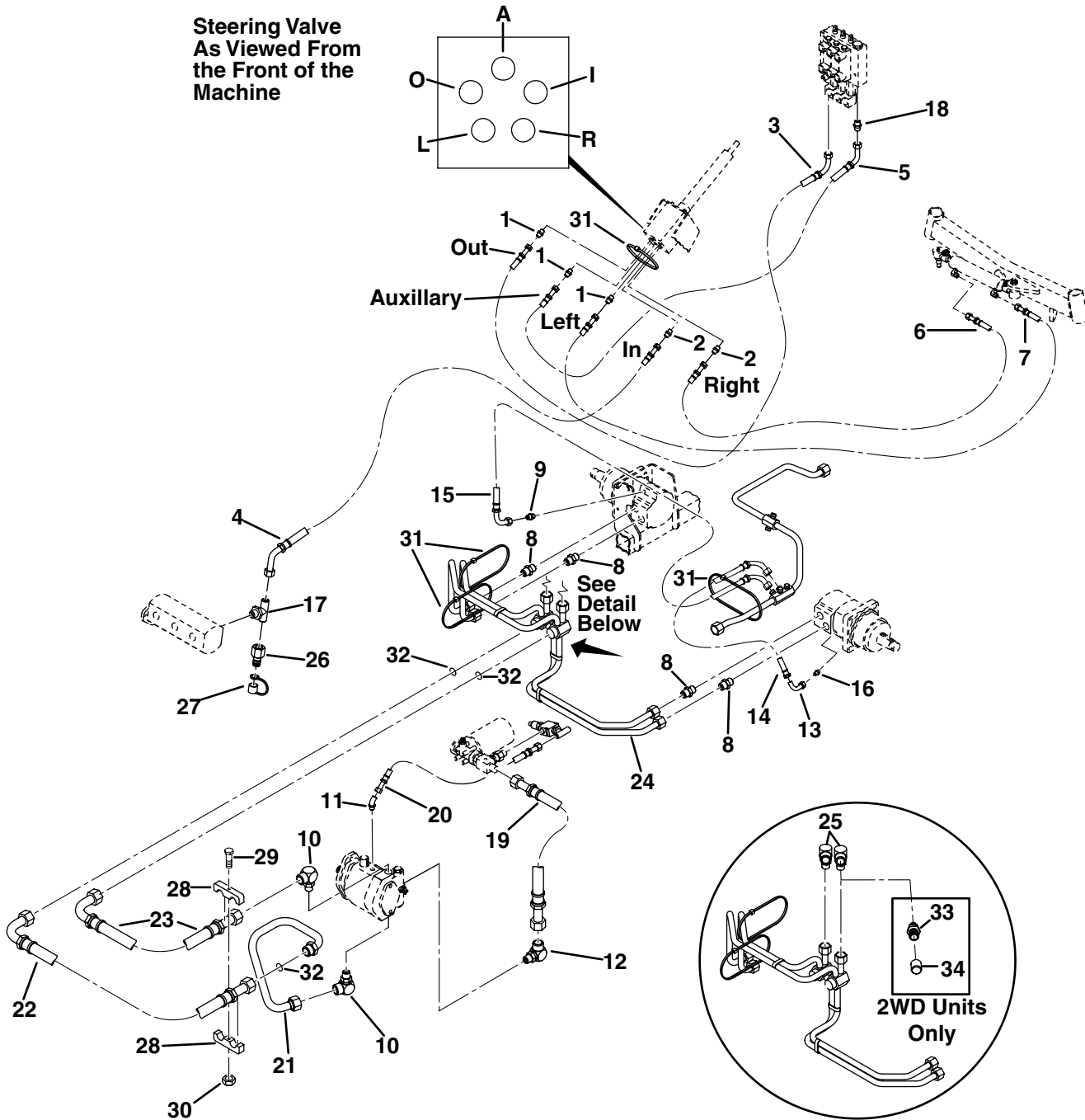
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123161	1	Tube, Fan Motor	
2	1000156	1	Tube, Tee to Fan Motor Tube	
3	123166	1	Tube, Left Wing Reel Valve Inlet	
4	132770	1	Tube, Center Reel Valve Inlet	
5	1000149	1	Tube, Center Reel Valve, Return Filter	
6	1000157	1	Tube, Fan Motor to Return Filter	
7	132740	2	Hose	
8	339993	2	Adaptor, Straight	
9	339910	4	O-Ring	
10	132710	1	Valve, Easy Ride	
11	132771	1	Tee, Special	
12	132772	1	Tube, Center Reel Valve Bypass	
13	162561	2	Valve, Backlap	
14	123164	1	Tube, Ctr. Valve Bypass- Return Tube	
15	340103	2	Tee, Branch	
16	367186	1	Clamp, Pipe	
17	340271	2	Tee, Run	
18	444708	1	Nut, 1/4-20 Center Lock	
19	400118	1	Screw, 1/4-20 x 1-3/4" Hex Head	
20	340270	1	Tee, Run	
21	339908	4	O-Ring	
22	1000155	1	Tube, Right Wing- Left Wing Reel Valve	
23	340072	2	Adaptor, 90°	
24	132769	1	Tube, Wing Reel Valve Bypass	
25	123165	1	Tube, Bypass to Tee	
26	340067	2	Adaptor, 90°	
27	363030	2	Cap, Dust	
28	364945	2	Fitting, Diagnostic	
29	340096	1	Tee, Branch	
30	1000239	1	Hose, Easy Ride Valve Return	
31	340061	4	Adaptor, 90°	
32	339909	1	O-Ring	

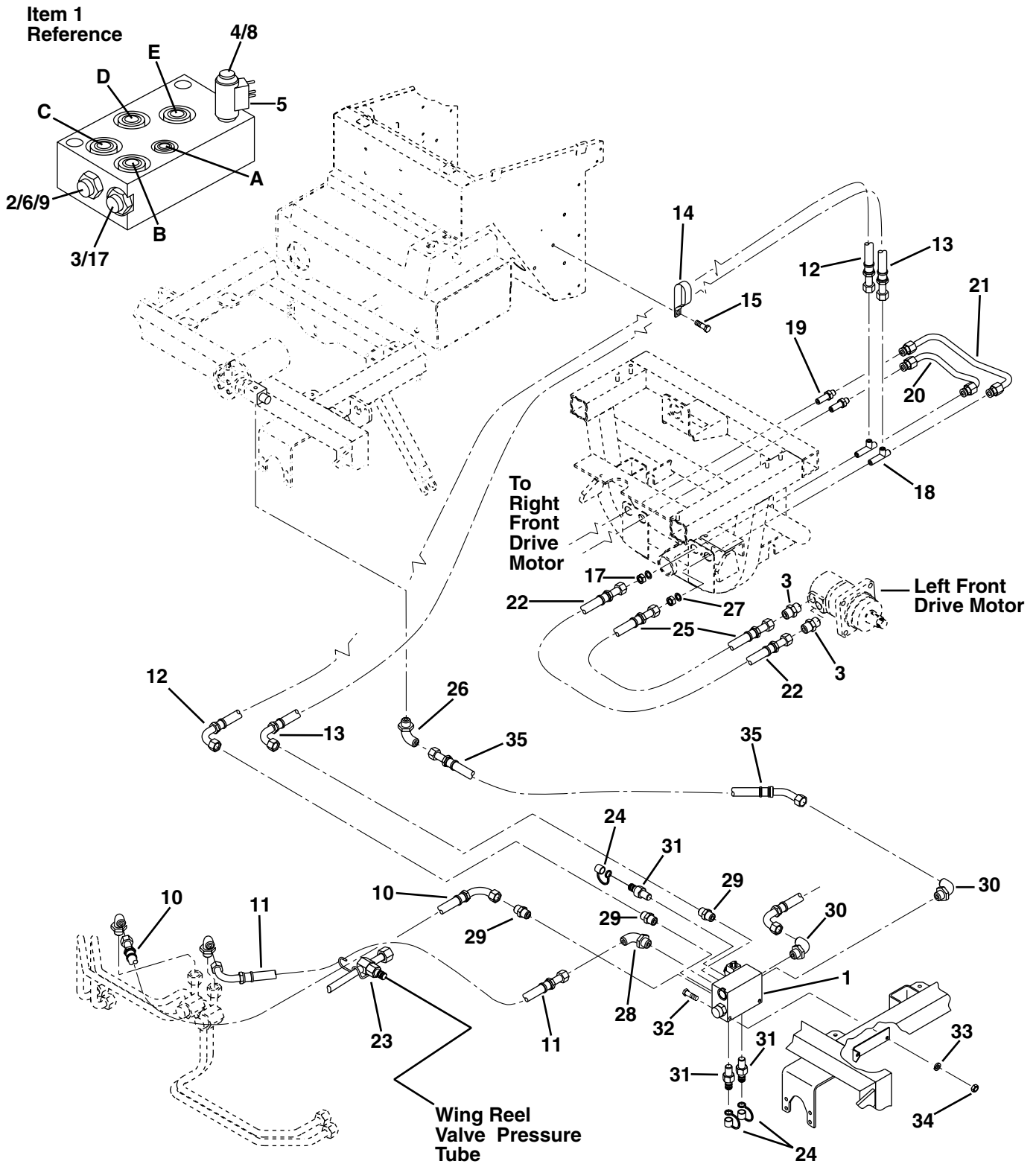
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38.1 Front Traction and Steering Hydraulics



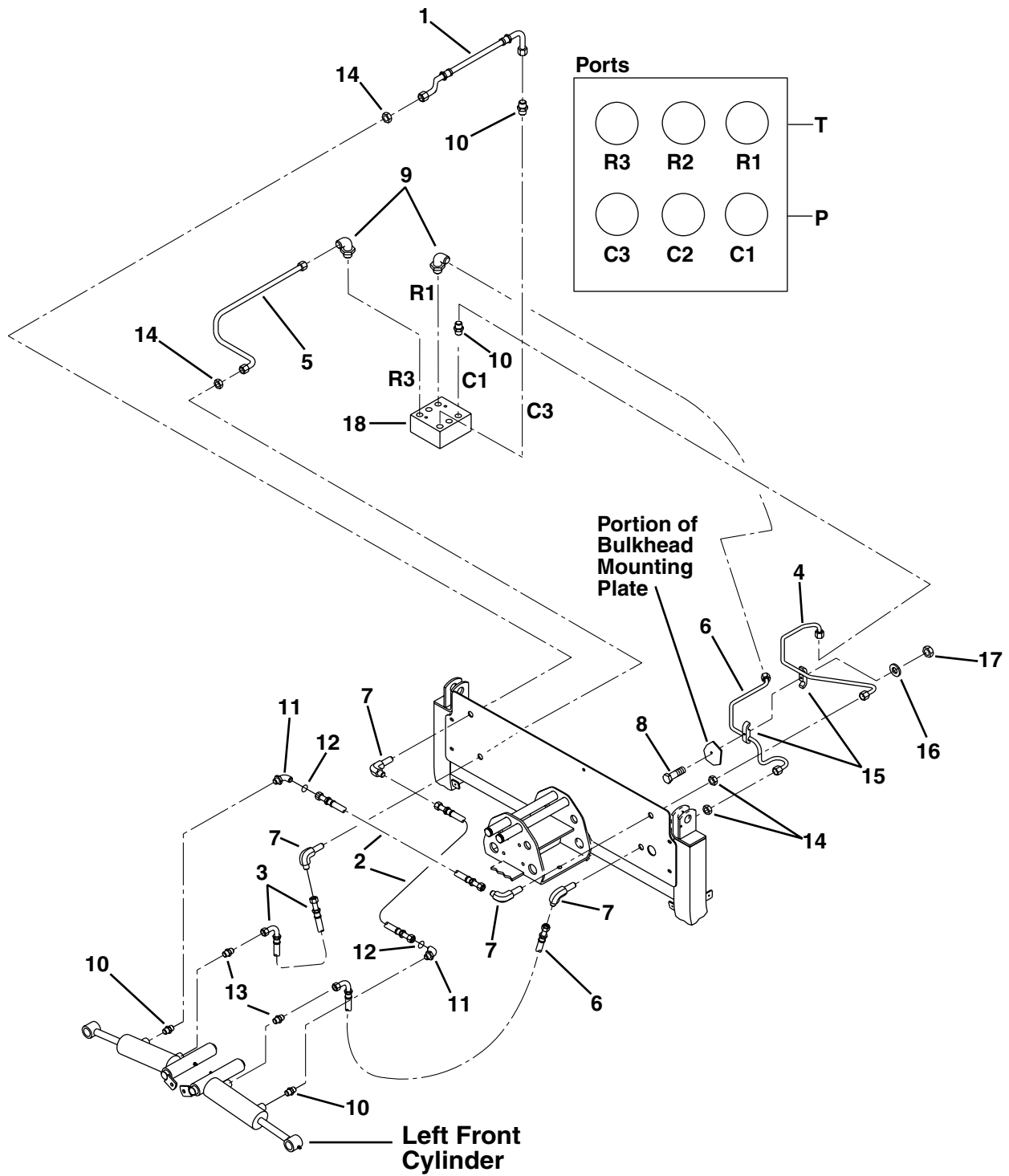
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	339979	3	Adaptor, Straight	
2	339974	2	Adaptor, Straight	
3	132754	1	Hose, Steering Out to Lift Valve	
4	132755	1	Hose, Pump to Steering Valve	
5	132756	1	Hose, Aux. Steering to Lift Valve	
6	132757	1	Hose, Right Turn	
7	132758	1	Hose, Left Turn	
8	339994	4	Adaptor, Straight	
9	339972	1	Adaptor, Straight	
10	340076	2	Adaptor, 90°	
11	340026	1	Adaptor, 45°	
12	340066	1	Adaptor, 90°	
13	3001985	1	Adaptor, 90°, 37° JIC	
14	1000987	1	Hose, Left Wheel Motor Case Drain	
15	132734	1	Hose, Right Wheel Motor Case Drain	
16	3002567	1	Adaptor, 37° JIC	
17	340104	1	Tee, Branch	
18	339980	1	Adaptor, Straight	
19	132739	1	Hose, Charge Filter to Pump	
20	132743	1	Hose, Traction Pump Case Drain	
21	123148	1	Tube, Pump Bottom Port	
22	132733	1	Hose, Pump to Tube Assembly	
23	132732	1	Hose, Pump to Tube Assembly	
24	123154	1	Tube Assembly, Front Wheel Motor	
25	340317	2	Adapter, 90°	2WD Units
25	340320	2	Adapter, 90°	4WD Units
26	364945	1	Fitting, Diagnostic	
27	363030	1	Cover, Dust	
28	367244	1	Clamp, Tube	
29	400124	1	Screw, 1/4-20 x 2-1/4" Hex Head	
30	444708	1	Nut, 1/4-20 Center Lock	
31	473144	6	Tie, Nylon	
32	339913	3	O-Ring, Face Seal	
33	364945	2	Fitting, Diagnostic	2WD Units Only
34	363030	2	Cover, Dust	2WD Units Only

> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3008479	1	Valve, 4WD	
2	5000048	1	• 3 Way Spool	
3	5000049	1	• Check Valve	
4	556847	1	• Solenoid Valve	
5	556849	1	• Coil, Solenoid	
6	5003580	1	• Seal Kit, (3 Way Spool Valve)	
7	5003579	1	• Seal Kit, (Check Valve)	
8	5003578	1	• Seal Kit, (Solenoid Valve)	
9	5003463	1	Disk, Orifice	
10	1000199	1	Hose Bundle Assembly	
11	1000198	1	Hose Bundle Assembly	
12	1000196	1	Hose Assembly	
13	1000197	1	Hose Assembly	
14	3006122	1	Clamp, Double Tube	
15	409812	1	Screw, 5/16-18 x 3/4 Hex Head Type T	
16	3009728	1	Harness-(Not Shown)	
17	339963	4	Locknut, Bulkhead	
18	340217	2	Tee, Bulkhead	
19	340241	2	Union, Bulkhead	
20	1000144	1	Tube Assembly	
21	1000145	1	Tube Assembly	
22	1000187	2	Hose Bundle Assembly	
23	3000470	1	Support, Hose	
24	363030	3	Cover, Dust	
25	1000186	2	Hose Assembly	
26	340055	1	Adaptor, 90°	
27	455004	4	Washer, 1-1/16" I.D. x 2" O.D.	
28	340070	1	Adaptor, 90°	
29	339989	7	Adaptor, Straight	
30	340057	2	Adaptor, 90°	
31	365466	3	Fitting, Diagnostic	
32	400202	2	Screw, 5/16-18 x 3" Hex Head	
33	446136	2	Lockwasher, 5/16 Heavy	
34	443106	2	Nut, 5/16-18 Hex	
35	1000195	1	Hose Assembly	

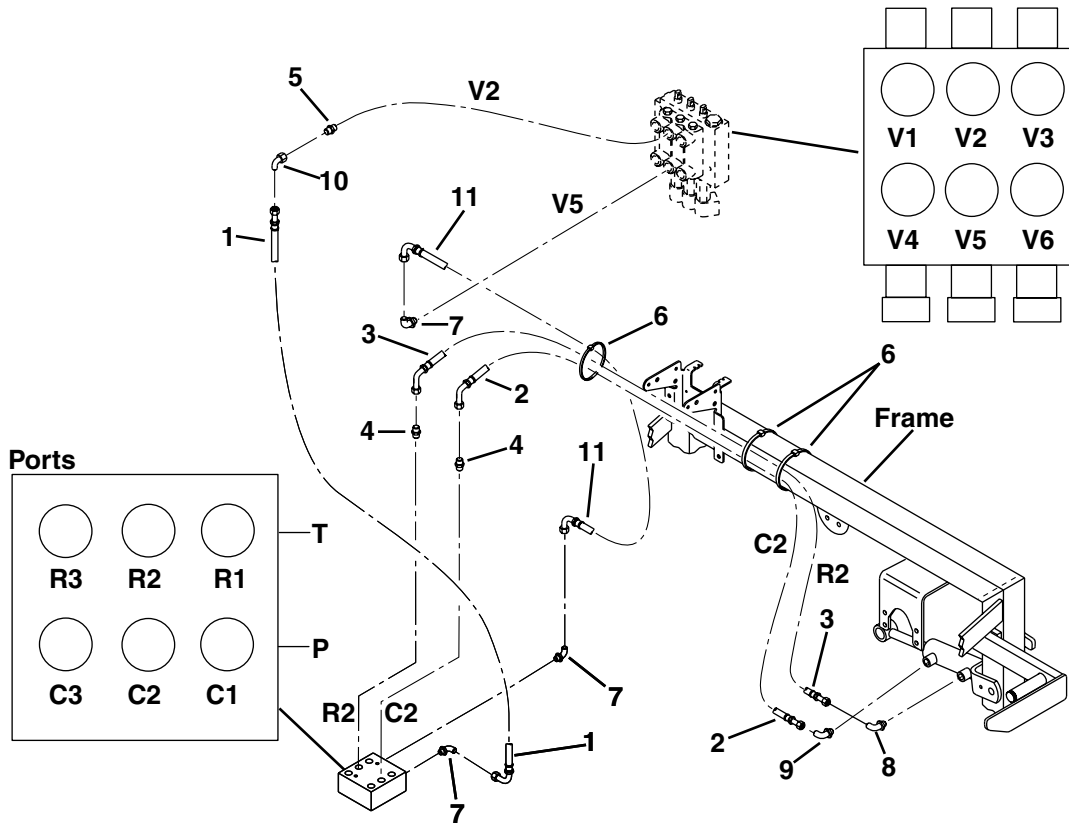
> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000443	1	Hose	
2	132728	2	Hose	
3	132727	2	Hose	
4	123159	1	Tube	
5	123157	1	Tube	
6	123158	1	Tube	
7	340167	4	Elbow, Bulkhead Union	
8	400114	1	Screw, 1/4-20 x 1-1/4" Hex Head	
9	340061	2	Adaptor, 90°	
10	339979	4	Adaptor, Straight	
11	340375	2	Elbow, 90° Swivel Nut	
12	3000953	2	Disk, Orifice	
13	340003	2	Adaptor, Straight	
14	339961	4	Locknut, Bulkhead	
15	364221	1	Clamp, Double Tube	
16	453023	1	Flat Washer, 1/4	
17	444708	1	Locknut, 1/4-20 Center	
18	117150	1	Manifold Valve	

> Change from previous revision

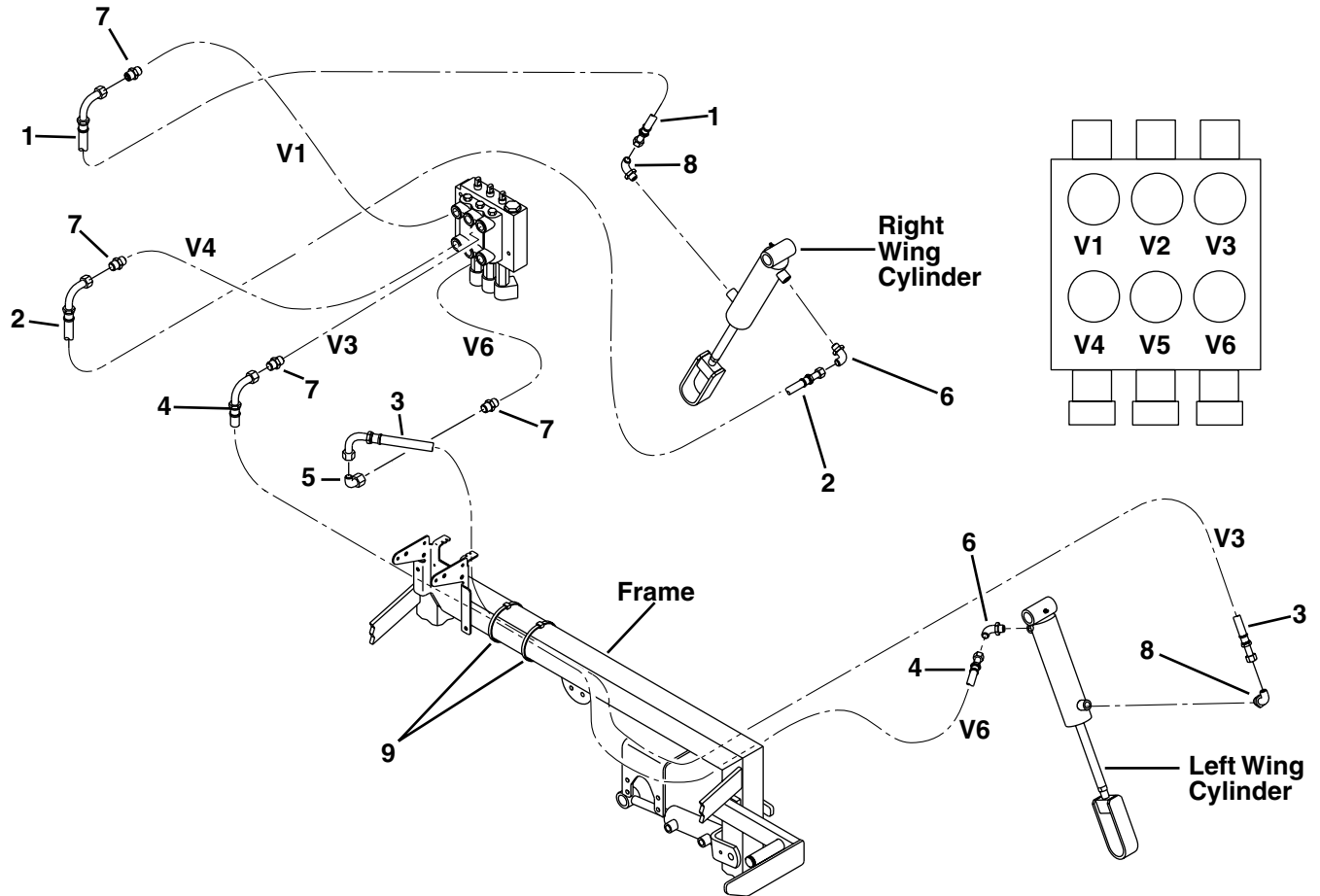
41.1 Center Lift Cylinder Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132791	1	Hose	
2	132759	1	Hose	
3	132760	1	Hose	
4	339979	2	Adaptor, Straight	
5	339984	1	Adaptor, Straight	
6	473144	3	Tie, Nylon	
7	340066	3	Adaptor, 90°	
8	340078	1	Adaptor, 90°	
9	340081	3	Adaptor, 90°	
10	340376	1	Adaptor, Swivel Nut	
11	132768	1	Hose	

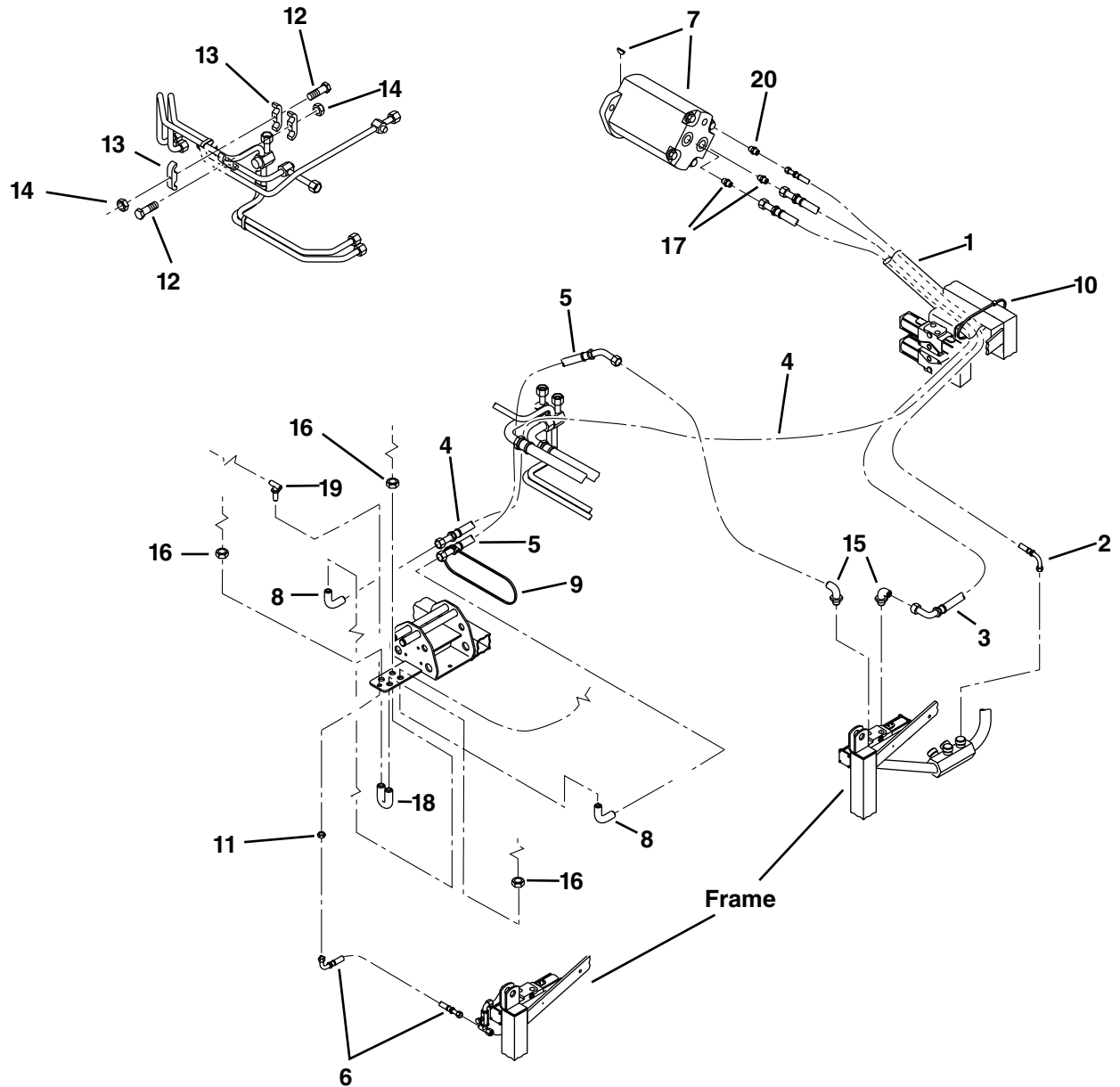
> Change from previous revision

42.1 Wing Lift Cylinder Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132744	1	Hose	
2	132765	1	Hose	
3	132746	1	Hose	
4	132745	1	Hose	
5	340375	1	Elbow, 90° Swivel Nut	
6	340078	2	Adaptor, 90°	
7	339980	4	Adaptor, Straight	
8	340081	3	Adaptor, 90°	
9	473144	3	Tie, Nylon	

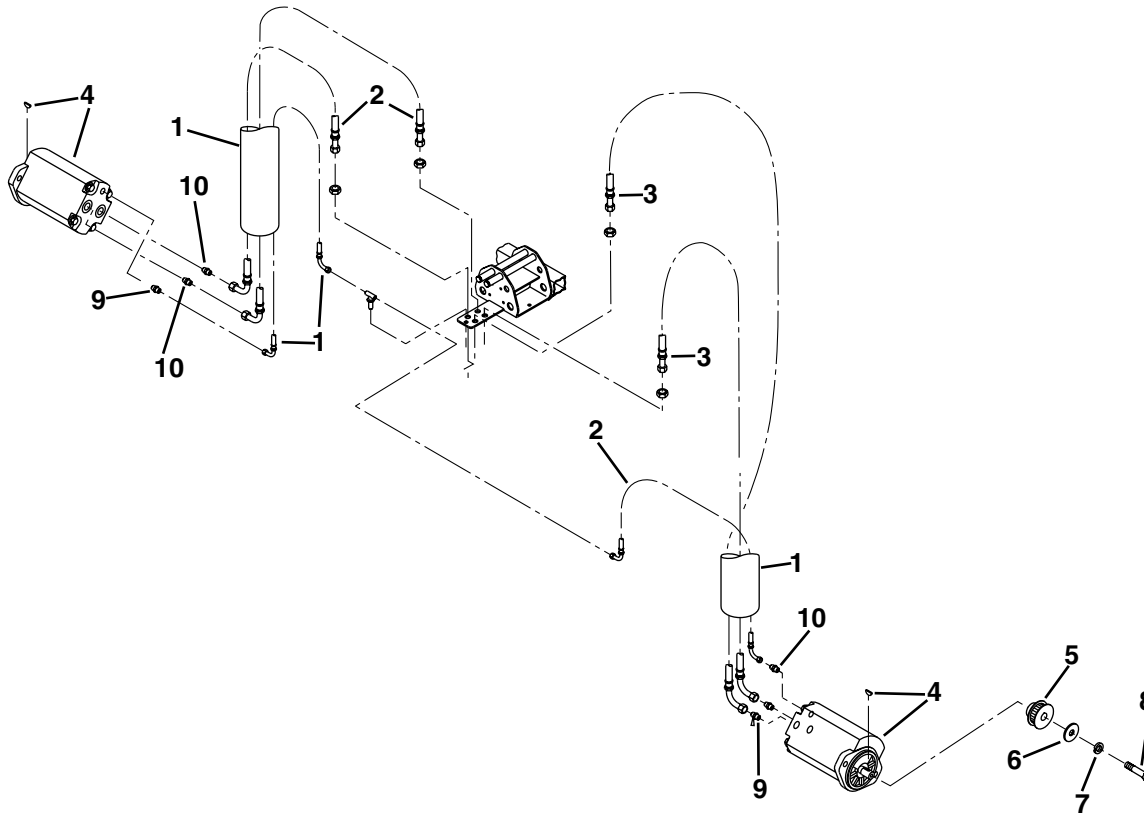
> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132723	1	Center Reel Hose Bundle	
2	132724	1	• Hose, Motor Drain	
3	132726	1	• Hose, Motor to Solenoid Valve	
4	132725	1	• Hose, Motor to Bulkhead	
5	132789	1	Hose	
6	132741	1	Hose	
7	4103920	1	Motor, Reel	See 61.1
8	340168	2	Elbow, Bulkhead Union	
9	473142	2	Tie, Nylon	
10	473196	1	Tie, Nylon	
11	339960	1	Locknut, Bulkhead	
12	400118	2	Screw, 1/4-20 x 1-3/4" Hex Head	
13	367186	2	Clamp, Pipe	
14	444708	2	Nut, 1/4-20 Center Lock	
15	340066	2	Adapter, 90°	
16	339962	4	Locknut, Bulkhead	
17	339985	2	Adapter, Straight	
18	367093	1	Fitting, Bulkhead Union	
19	367126	1	Tee, Bulkhead	
20	339974	1	Adapter, Straight	

> Change from previous revision

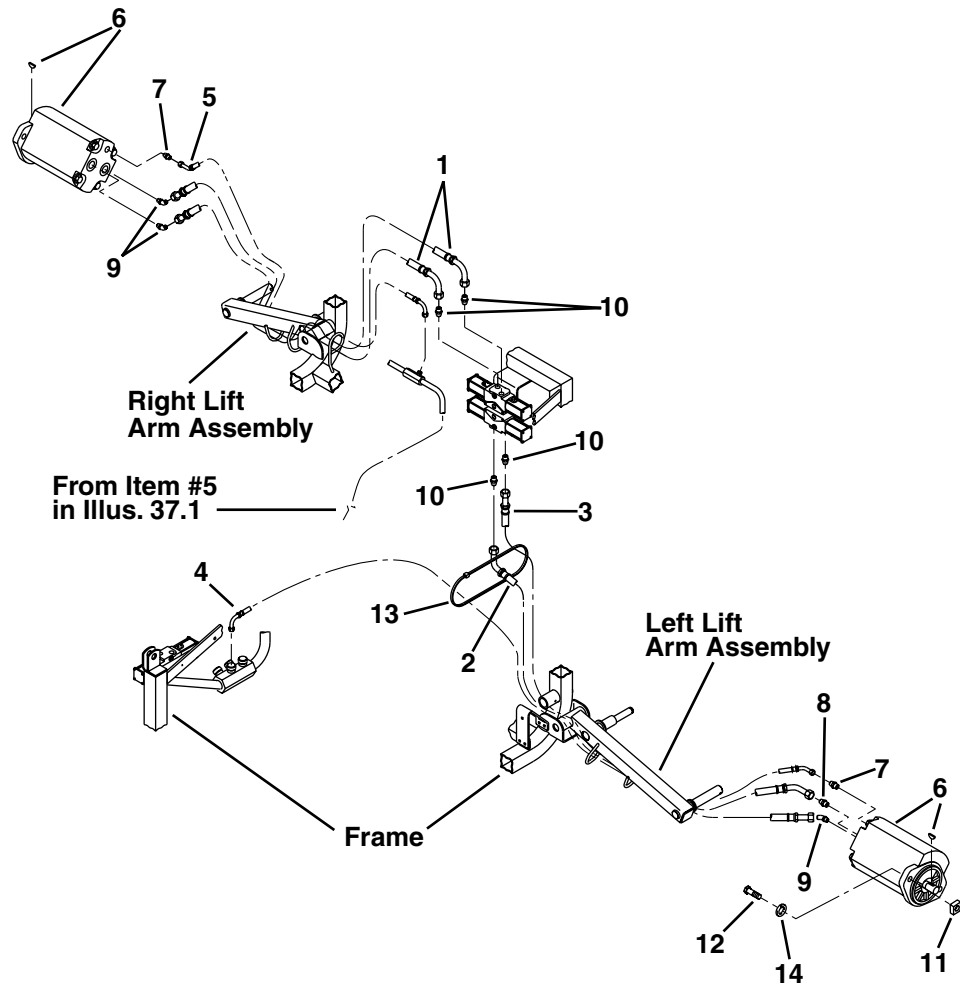
44.1 Front Reel Motor Hydraulics



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132139	2	Front Reel Hose Assembly	See 61.1
2	132716	1	• Hose, Motor Drain to Bulkhead	
3	132717	2	• Hose, Front Motor to Bulkhead	
4	4103920	2	Motor, Reel	
5	340510	5	Sprocket, Mower (Drive)	
6	350532	5	Washer, Special, 1/4	
7	446130	5	Lockwasher, 1/4 Heavy	
8	400108	5	Screw, 1/4-20 x 3/4" Hex Head	
9	339974	2	Adaptor, Straight	
10	339985	4	Adaptor, Straight	

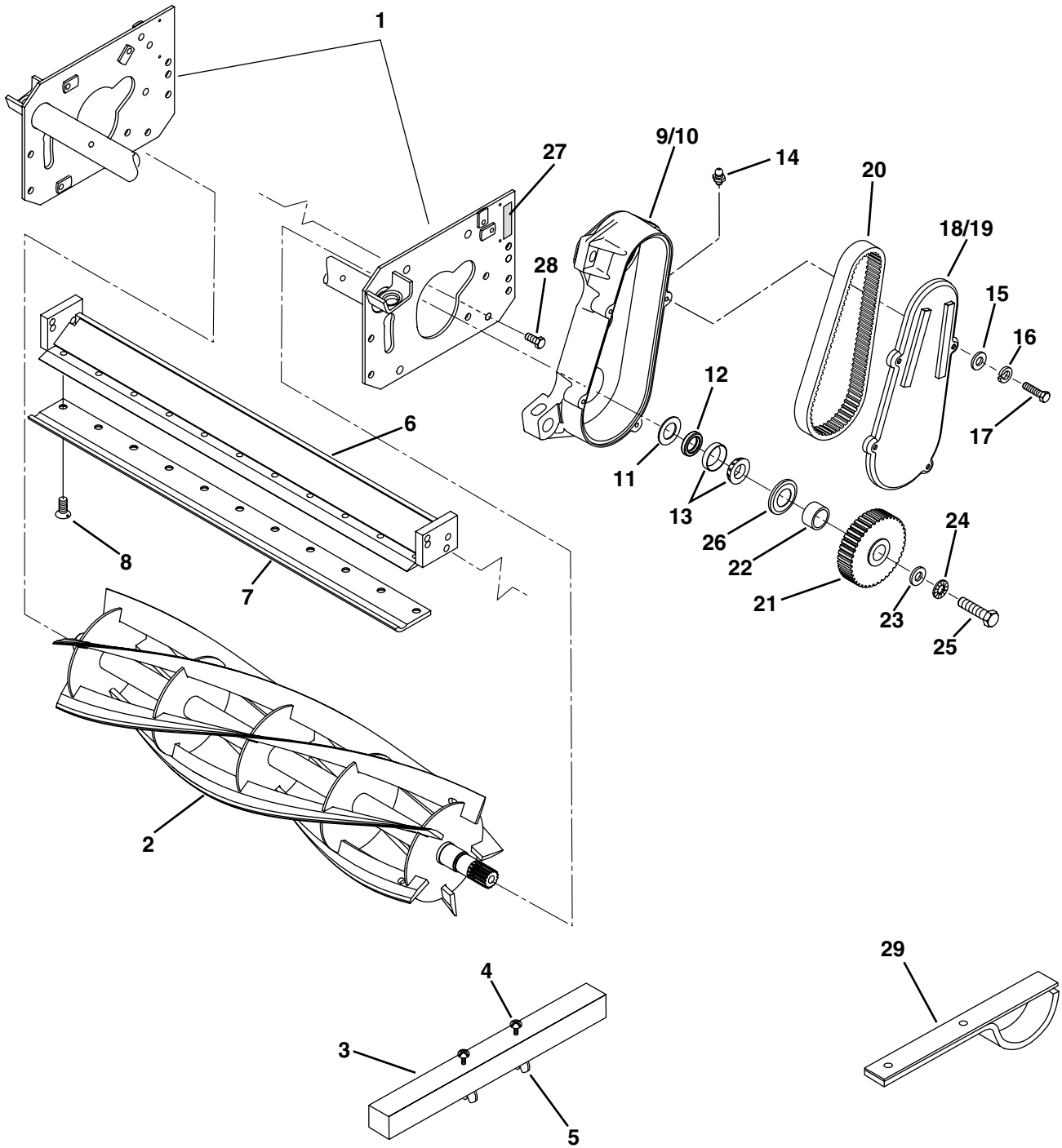
> Change from previous revision

45.1 Wing Reel Motor Hydraulics



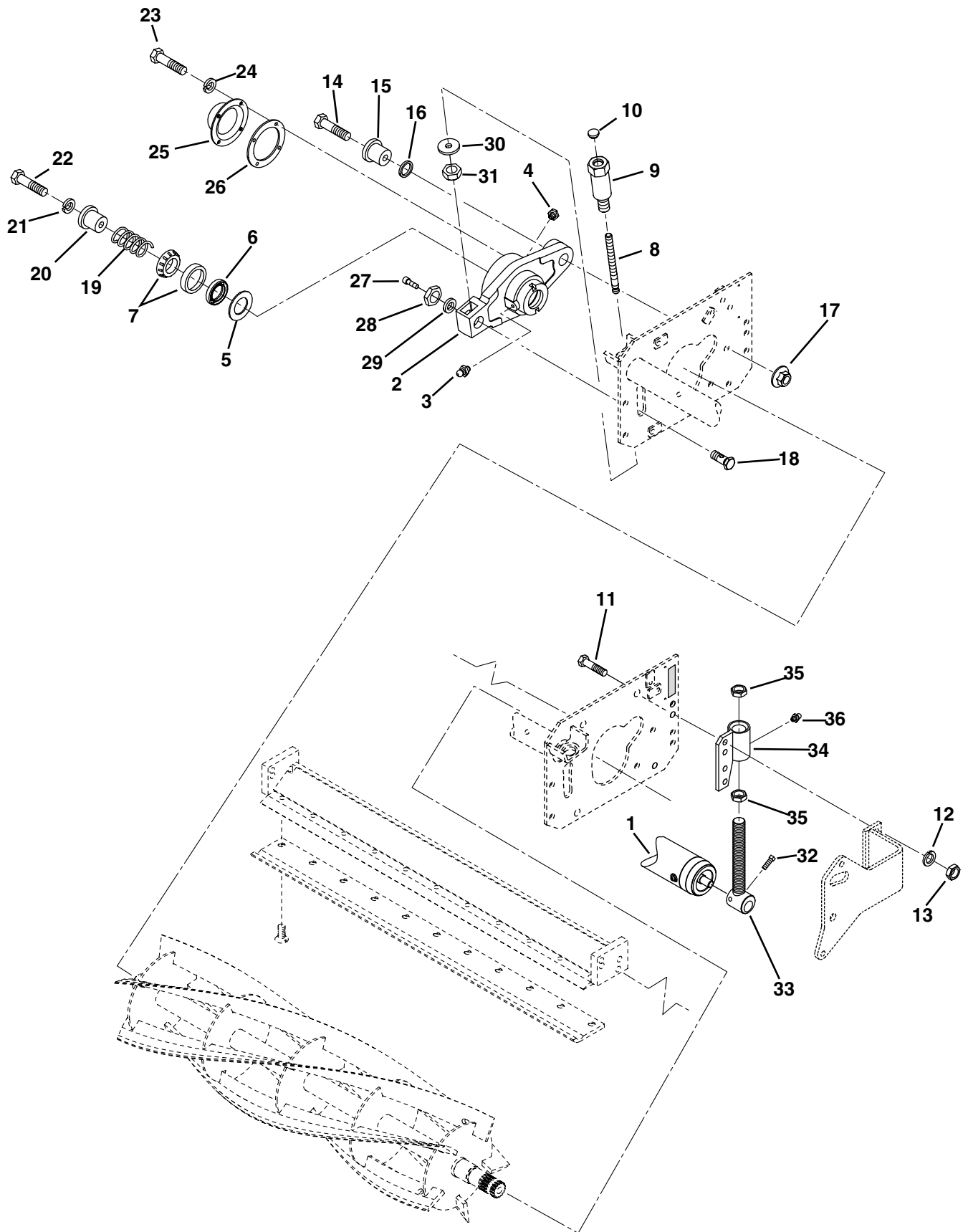
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132735	2	Hose	See 61.1
2	132863	1	Hose	
3	132737	1	Hose	
4	1000986	1	Hose	
5	132736	1	Hose	
6	4103920	2	Motor, Reel	
7	339974	2	Adaptor, Straight	
8	339985	1	Adaptor, Straight	
9	340030	3	Adaptor, 45°	
10	339984	4	Adaptor, Straight	
11	444520	10	Nut, 3/8-16 Square (Regular)	
12	400266	10	Screw, 3/8-16 x 1-1/2" Hex Head	
13	473142	2	Tie, Nylon	
14	447216	10	Lockwasher, 3/8 Internal Tooth	

> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1001658	1	Frame Assembly	
2	503635	1	Reel Assembly, L.H., 10 Blade	Used On 67904 Only
2	503634	1	Reel Assembly, R.H., 10 Blade	Used On 67903 Only
2	5003084	1	Reel Assembly, L.H., 7 Blade	Used On 67902 Only
2	5003083	1	Reel Assembly, R.H., 7 Blade	Used On 67901 Only
2	5000041	1	Reel Assembly, L.H., 5 Blade	Used On 67900 Only
2	5000040	1	Reel Assembly, R.H., 5 Blade	Used On 67899 Only
3	158568	1	Bedknife Adjustment Guage	
4	351003	2	Pan Head Screw	
5	445604	2	Wing Nut, #10-24	
6	5002161	1	Bedknife Backing	
7	503654	1	Bedknife	
8	3009138	11	Screw, 1/4-20 x 1/2" Special Flat Hd	
9	5000395	1	Drive Housing, L.H.	
10	5000396	1	Drive Housing, R.H.	
11	3001152	2	• Washer	
12	3000983	2	• Seal	
13	500596	2	• Bearing Set, Cup and Cone	
14	471219	1	• Grease Fitting	
15	453023	4	Washer, 1/4 Flat	
16	446130	4	Lockwasher, 1/4	
17	408851	4	Screw, 1/4-20 x 7/8" Thread Form	
18	3001329	1	Cover, Drive Housing, L.H.	
19	3001330	1	Cover, Drive Housing, R.H.	
20	5001122	1	Mower, Drive Belt	
21	340511	1	Sprocket, Drive	
22	366825	1	Spacer	
23	358794	1	Washer, Sprocket Mounting	
24	447216	1	Lockwasher, 3/8 Internal Tooth	
25	400264	5	Screw, 3/8-16 x 1-1/4" Hex Head	
26	360680	1	Nilos Ring	
27	3000915	1	Decal, Grease	
28	3005890	4	Bolt, Wheel	
29	164162	1	Belt Tension Indicator	

> Change from previous revision



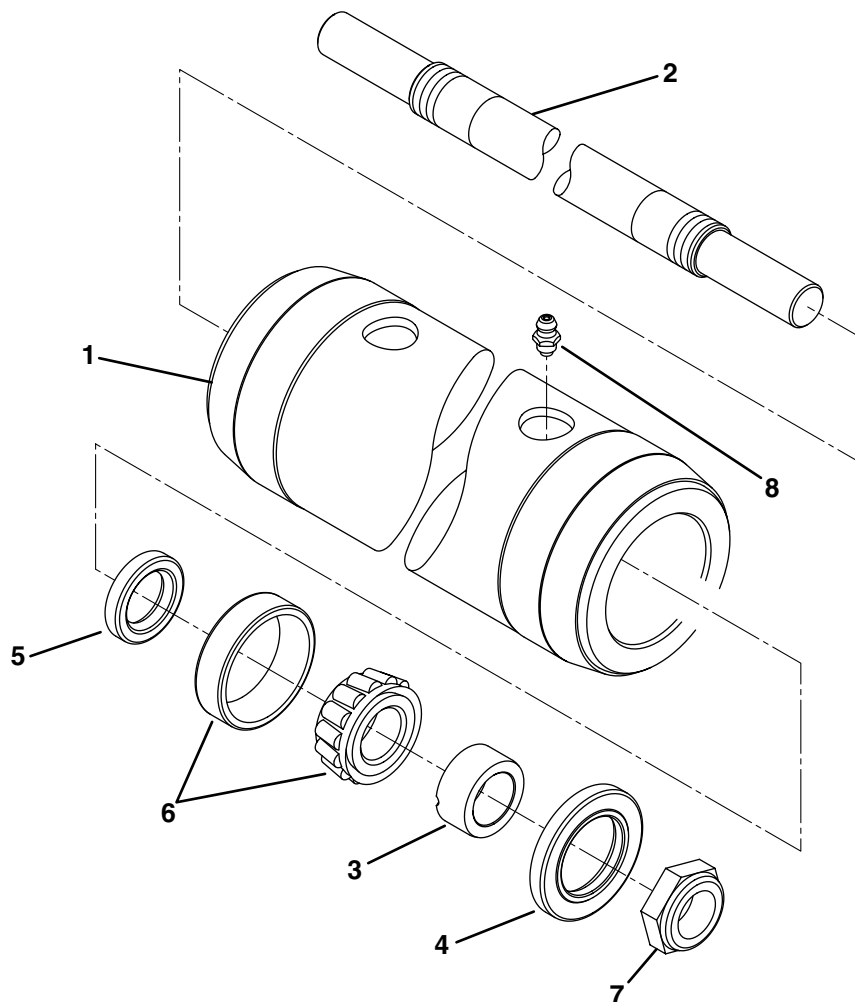
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132639	1	Rear Roller	Used on 7 and 10 Blade Reels
1	132874	1	Rear Roller	Used on 5 Blade Reels
2	5001606	1	Bearing Housing	
3	471214	1	• Grease Fitting	
4	471240	1	• Relief Fitting	
5	3001152	2	• Washer	
6	3000983	2	• Seal	
7	500596	2	• Bearing Set, Cup and Cone	
8	3004189	2	Adjustment Screw	
9	3003611	2	Adjustment Nut	
10	472519	2	Plug	
11	400264	5	Screw, 3/8-16 x 1-1/4" Hex Head	
12	446142	9	Lockwasher, 3/8 Heavy	
13	443110	4	Nut, 3/8-16 Hex	
14	400446	2	Screw, 1/2-20 x 2" Hex Head	
15	3003389	2	Bushing	
16	364151	2	Wave Washer	
17	445789	2	Nut, 1/2-20 Spiralock	
18	3003517	2	Shoulder Bolt, Pivot	
19	366841	1	Compression Spring	
20	366826	1	Spring Retainer	
21	446142	9	Lockwasher, 3/8 Heavy	
22	400270	1	Screw, 3/8-16 x 2" Hex Head	
23	434038	4	Screw, #10 x 1/2" Socket Head	
24	446116	4	Lockwasher, #10	
25	338585	1	Cover, Bearing Housing	
26	364147	1	Bearing Housing Gasket	
27	434031	2	Set Screw, 1/4-20 x 3/4" Nyloc	
28	3004370	2	Nut, 3/4-16 Thin	
29	306828	2	Washer	
30	365995	2	Special Washer	
31	445718	2	Nut, m 5/8-18 Hex Lock	
32	412015	2	Set Screw, 5/16-18 x 5/8" Square Head	
33	132680	2	Rear Roller Adjuster	
34	3007633	2	Rear Roller Adjuster Bracket	
35	3000313	4	Rear Roller Adjuster Nut	
36	471214	2	Grease Fitting	

> Change from previous revision

48.1 Reel Roller Assembly

Part Number 132874

Serial No. 67899 All
Serial No. 67900 All



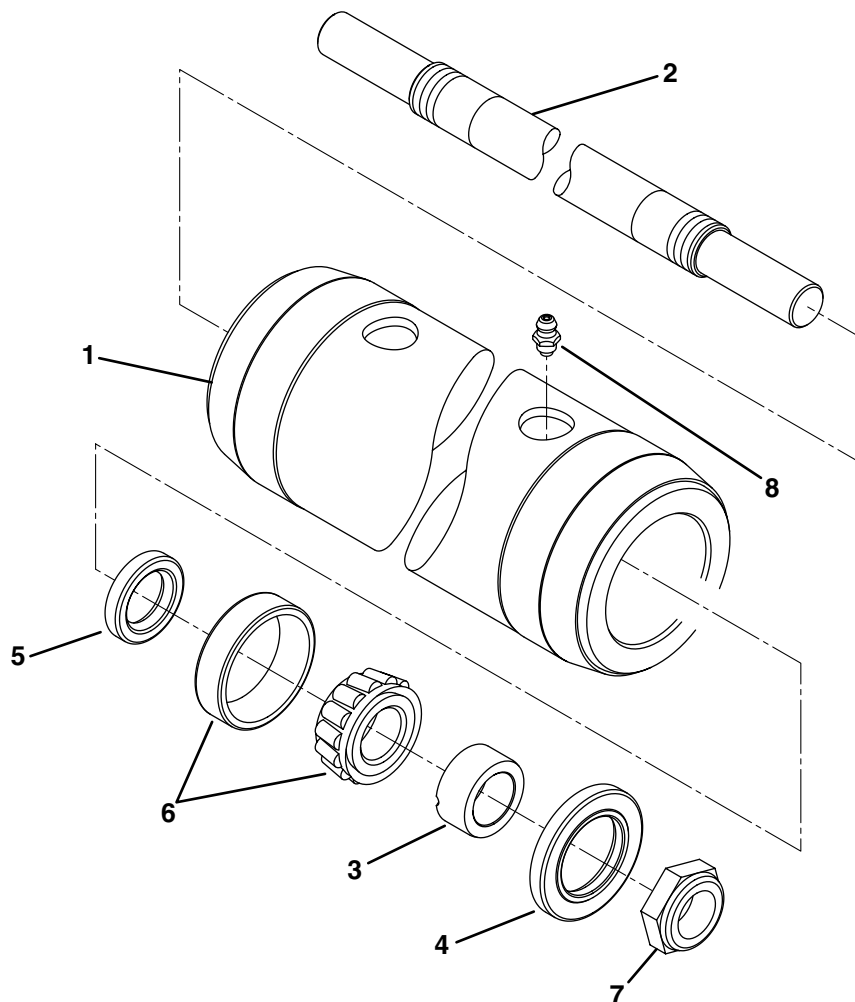
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132875	1	Tube Assembly	
2	3003415	1	Roller Shaft	
3	3005156	2	Wear Sleeve	
4	3004882	2	Grease Seal	
5	338647	2	Grease Seal	
6	500534	2	Cup and Cone Bearing Assembly	
7	367029	2	Locknut	
8	471214	2	Grease Fitting	

> Change from previous revision

49.1 Rear Roller

Part Number 132639

Serial No. 67901 All
 Serial No. 67902 All
 Serial No. 67903 All
 Serial No. 67904 All



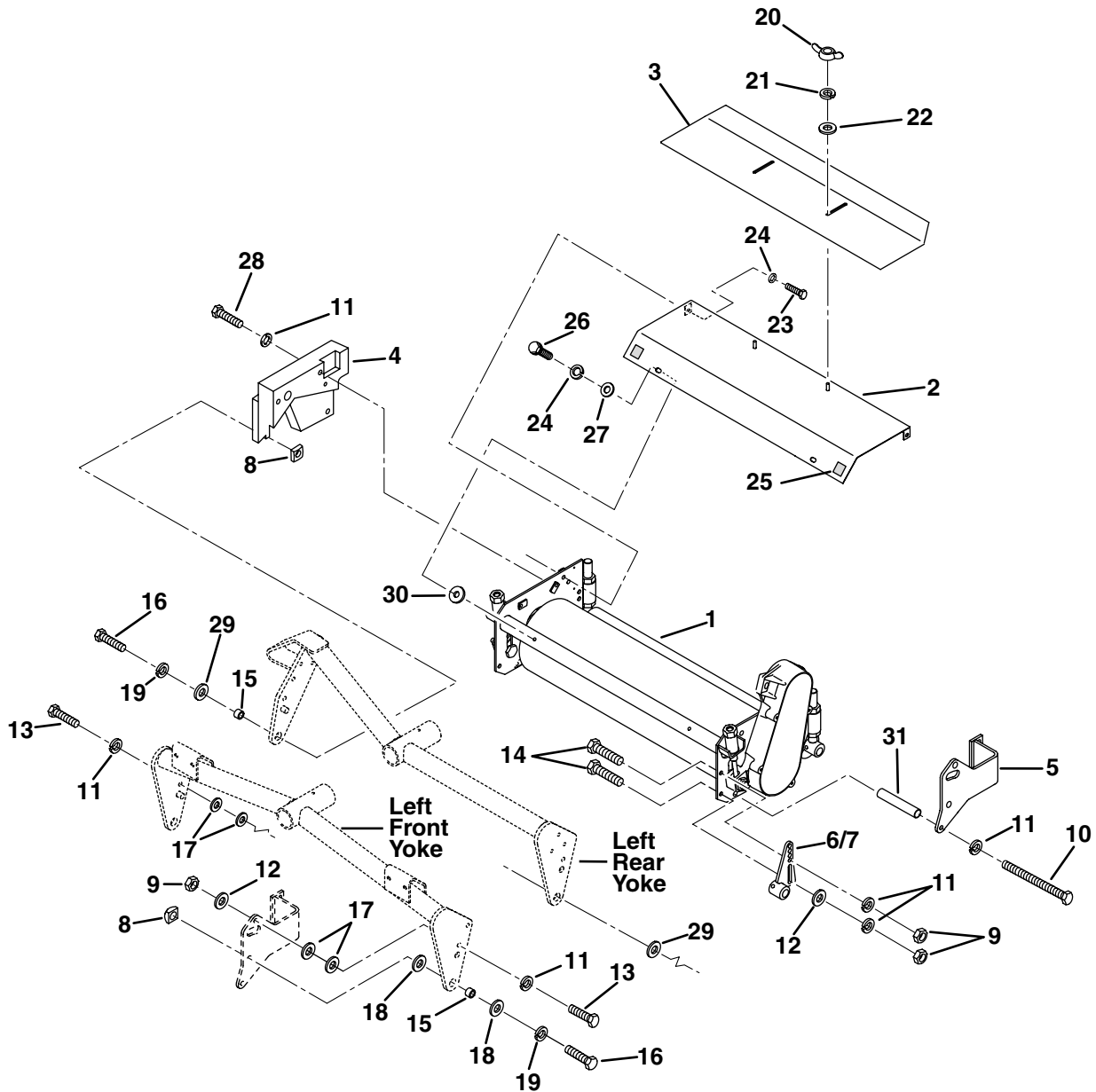
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132641	1	Tube Assembly	
2	3003415	1	Roller Shaft	
3	3005156	2	Wear Sleeve	
4	3004882	2	Grease Seal	
5	338647	2	Grease Seal	
6	500534	2	Cup and Cone Bearing Assembly	
7	367029	2	Locknut	
8	471214	2	Grease Fitting	

> Change from previous revision

LF-3810

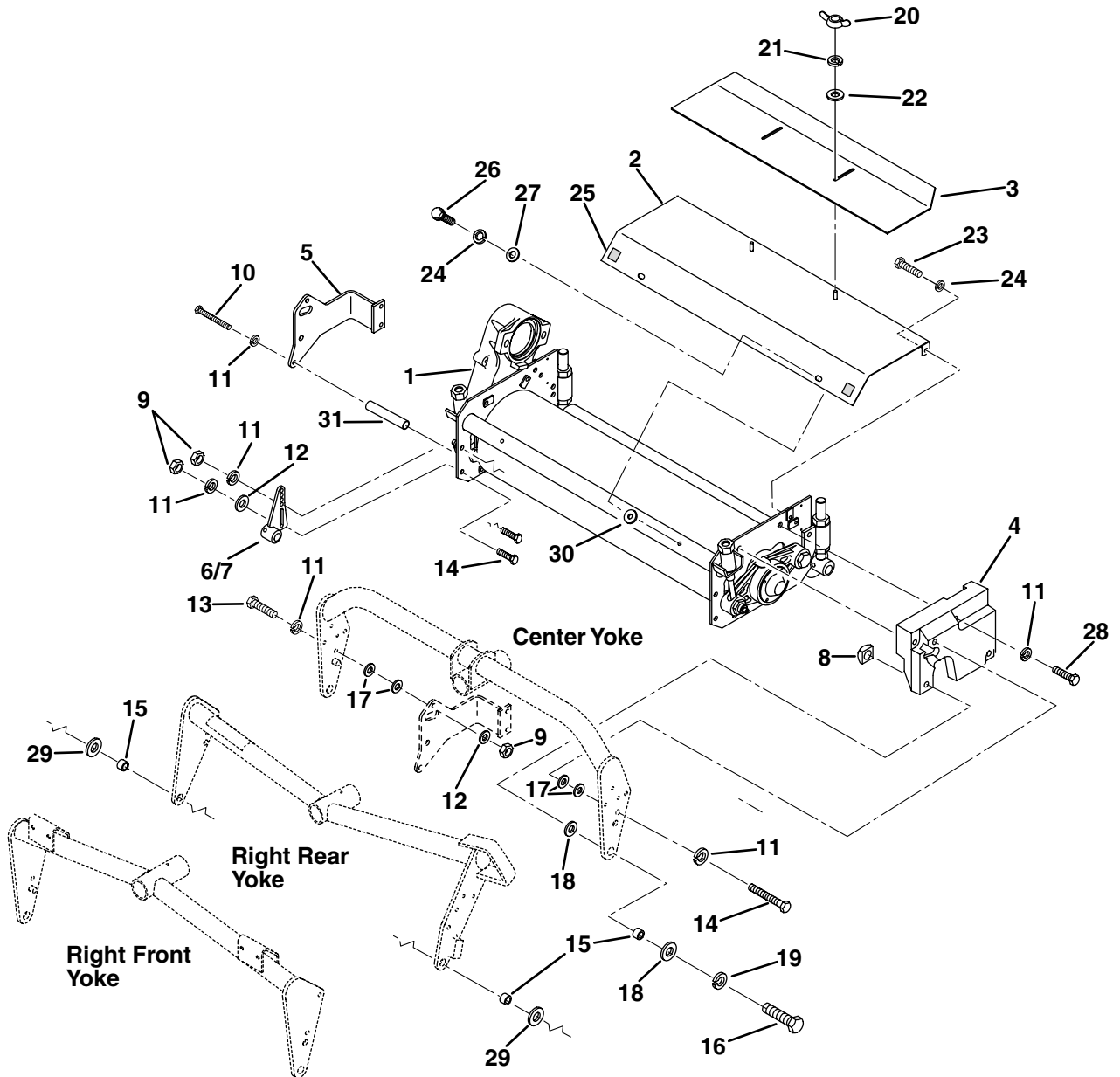
50.1 Left Reel Assemblies

Serial No. 67900 All
Serial No. 67902 All
Serial No. 67904 All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	Ref	1	Mower Assembly, L.H.	
2	123097	1	Top Shield Assembly	
3	366836	1	Deflector, Grass	
4	220321	1	Counterweight, L.H. Reel Assembly	
5	10002290	1	Bracket, Mower Pivot, L.H.	
6	3008359	1	Roller Adjuster, Left Side	
7	3008360	1	Roller Adjuster, Right Side	
8	444514	2	Nut, 1/2-13 Square	
9	443110	4	Nut, 3/8-16	
10	4010229	4	Screw, 3/8-16 x 4-1/4" Hex Head	
11	446142	4	Lockwasher, 3/8 Heavy	
12	366653	3	Washer, Special	
13	400266	2	Screw, 3/8-16 x 1-1/2" Hex Head	
14	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
15	366827	2	Spacer, Lift Yoke Pivot	
16	400408	1	Screw, 1/2--13 x 1-1/2" Hex Head	
17	453011	4	Flat Washer, 3/8	
18	452012	3	Flat Washer, 1/2	
19	446154	2	Lockwasher, 1/2 Heavy	
20	445612	2	Wing Nut, 1/4-20	
21	446130	2	Lockwasher, 1/4 Heavy	
22	307707	2	Washer, Special	
23	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
24	446136	4	Lockwasher, 5/16 Heavy	
25	3002379	2	Decal, Tight	
26	409813	2	Screw, 5/16-18 x 1" Thread Cutting	
27	453009	2	Flat Washer, 5/16	
28	400272	2	Screw, 3/8-16 x 2-1/4" Hex Head	
29	453017	2	Flat Washer, 1/2	
30	364441	1	Spacer	
31	366837	1	Spacer, Mower Pivot Bracket	

> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	Ref	1	Mower Assembly, L.H.	
2	123097	1	Top Shield Assembly	
3	366836	1	Deflector, Grass	
4	220322	1	Counterweight, R.H. Reel Assembly	
5	1002289	1	Bracket, Mower Pivot, R.H.	
6	3008359	1	Roller Adjuster, Left Side	
7	3008360	1	Roller Adjuster, Right Side	
8	444514	2	Nut, 1/2-13 Square	
9	443110	4	Nut, 3/8-16	
10	401229	2	Screw, 3/8-16 x 4-1/4" Hex Head	
11	446142	4	Lockwasher, 3/8 Heavy	
12	366653	3	Washer, Special	
13	400266	1	Screw, 3/8-16 x 1-1/2" Hex Head	
14	400264	3	Screw, 3/8-16 x 1-1/4" Hex Head	
15	366827	2	Spacer, Lift Yolk Pivot	
16	400408	1	Screw, 1/2-13 x 1-1/2" Hex Head	
17	453011	4	Flat Washer, 3/8	
18	452012	2	Flat Washer, 1/2	
19	446154	2	Lockwasher, 1/2 Heavy	
20	445612	2	Wing Nut, 1/4-20	
21	446130	2	Lockwasher, 1/4 Heavy	
22	307707	2	Washer, Special	
23	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
24	446136	4	Lockwasher, 5/16 Heavy	
25	3002379	2	Decal, Tight	
26	409813	2	Screw, 5/16-18 x 1" Thread Cutting	
27	453009	2	Flat Washer, 5/16	
28	400272	2	Screw, 3/8-16 x 2-1/4" Hex Head	
29	453017	1	Flat Washer, 1/2	
30	364441	1	Spacer	
31	366837	1	Spacer, Mower Pivot Bracket	

> Change from previous revision

52.1 Down Pressure Springs

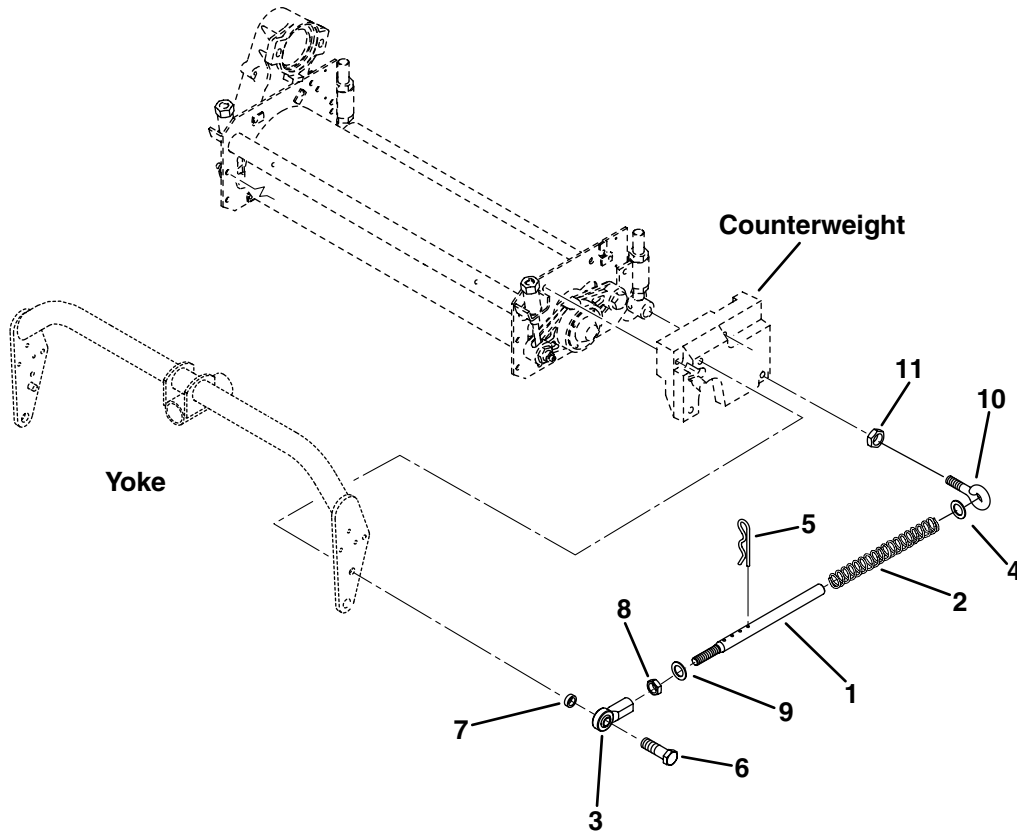
7 and 10 Blade Reels Only

Serial No. 67901 All

Serial No. 67902 All

Serial No. 67903 All

Serial No. 67904 All

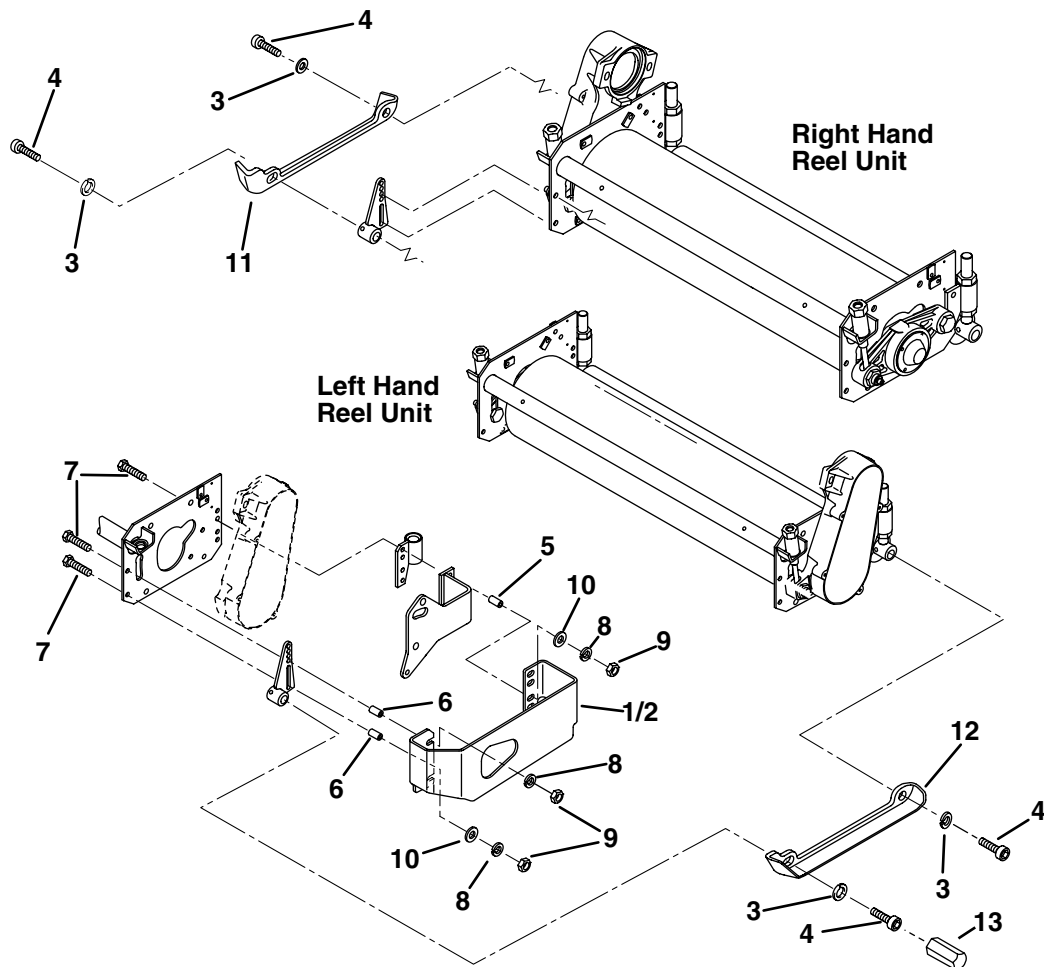


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	366975	2	Tube, Down Pressure	
2	366976	2	Spring	
3	366974	2	Rod End	
4	453017	2	Flat Washer, 1/2	
5	460312	2	Hair Pin	
6	400262	2	Screw, 3/8-16 x 1" Hex Head	
7	364441	2	Spacer	
8	443812	2	Nut, 3/8-24	
9	347935	2	Washer, Special	
10	366978	2	Eyebolt	
11	443810	2	Nut, 3/8-16 Jam	

> Change from previous revision

53.1 Skid & Bumper Assembly

5 Blade Reels Only

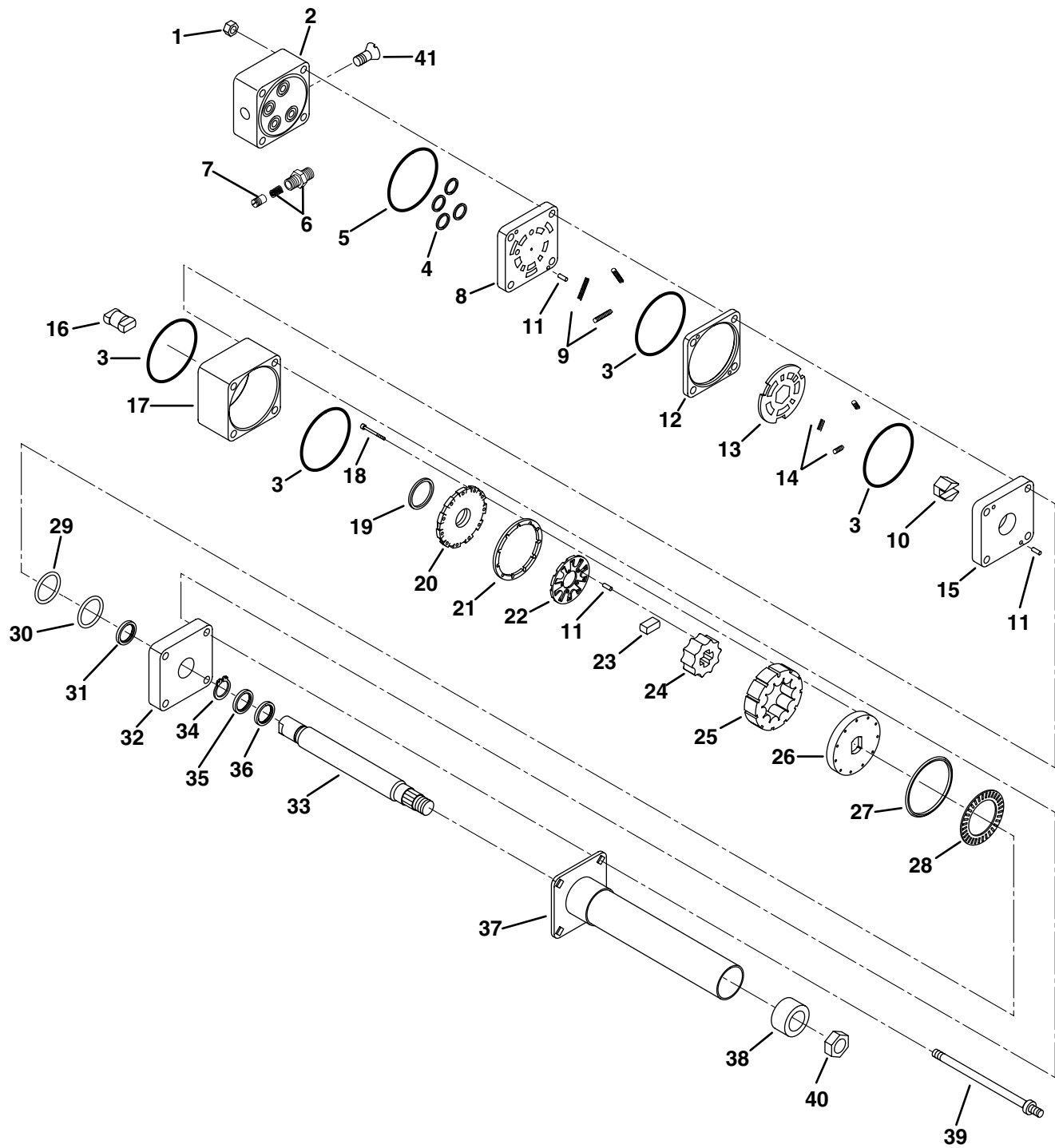


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3004950	1	Bumper, L.H.	
2	3004949	1	Bumper, R.H.	
3	446174	4	Lockwasher, 3/4	
4	434002	4	Screw, 3/4-16 x 1-1/4" Socket Head	
5	3005265	2	Spacer, Rear	
6	3005264	4	Spacer, Front	
7	400274	8	Screw, 3/8-16 x 2-1/2" Hex Head	
8	446142	25	Lockwasher, 3/8 Heavy	
9	443110	20	Nut, 3/8-16	
10	453011	28	Flat Washer, 3/8	
11	207474	1	Skid, R.H.	
12	207473	1	Skid, L.H.	
13	554723	1	Skid Shoe Wrench	

> Change from previous revision

54.1 Steering Valve

Part Number 117148

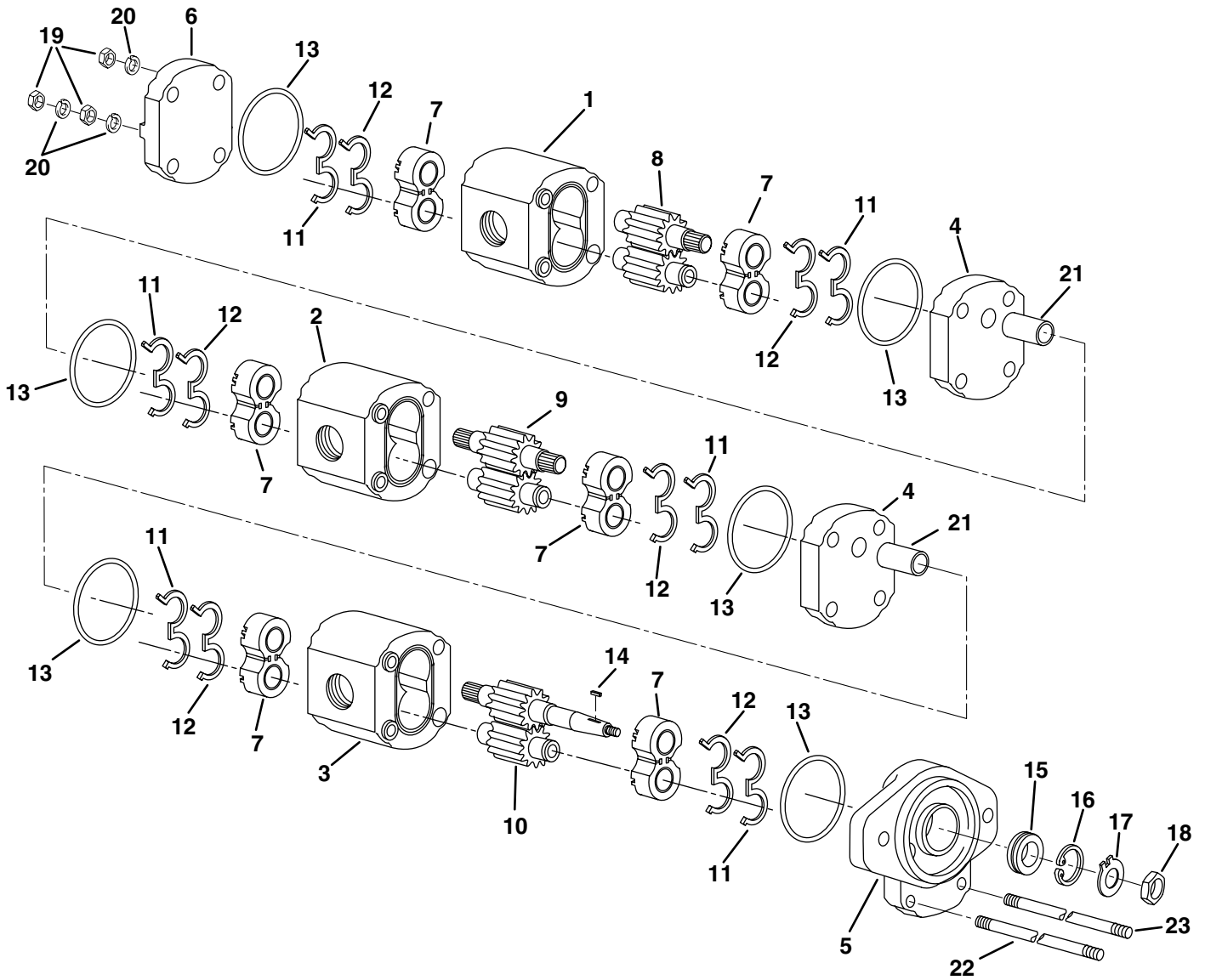


Item	Part No.	Qty.	Description	Serial Numbers/Notes	
	1	443108	4	Nut, 5/16-24 Center Lock	
	2	557732	1	Port Cover	
◆	3	–	1	Seal Ring	
◆	4	–	4	Seal Ring	
◆	5	–	4	O-Ring	
	6	557733	1	Relief Valve Assembly	
	7	557734	1	Dampening Cap	
	8	557735	1	Port Manifold	
❖	9	–	3	Spring	
	10	503387	1	Hex Drive Assembly	
●■	11	–	9	Needle, Roller	
	12	503398	1	Valve Ring	
	13	503398	1	Valve Plate	
❖	14	–	3	Spring	
	15	554854	1	Isolation Manifold	
	16	551105	1	Drive Link	
	17	551106	1	Metering Link	
●	18	–	11	Screw, Hex Socket Head	
◆	19	–	1	Seal, Commutator	
●	20	–	1	Commutator Cover	
●	21	–	1	Commutator Ring	
●	22	–	1	Commutator	
●	23	–	1	Spacer- Drive Link	
●	24	–	1	Rotor	
●	25	–	1	Stator	
●	26	–	1	Drive Plate	
	27	554855	1	Spacer	
	28	554856	1	Thrust Bearing	
◆	29	–	1	Face Seal	
◆	30	–	1	Back-Up Ring	
	31	554857	1	Seal Spacer	
	32	555694	1	Upper Cover Plate	
	33	557736	1	Shaft	
■	34	–	1	Retaining Ring	
■	35	–	1	Washer, Retaining Plate	
■	36	–	1	Retaining Plate	
■	37	–	1	Upper Cover & Jacket Assembly	
■	38	–	1	Bushing	
	39	557737	4	Stud	
	40	443828	1	Nut, 58-16 Jam	
	41	5000434	1	Plug, Relief Valve	
●	A	502922	1	Metering Assembly	
❖	B	502924	1	Spring Kit	
◆	C	557738	1	Seal Kit	
■	D	557739	1	Jacket Tube Kit	
■	E	502925	1	Needle Roller Kit	

> Change from previous revision

55.1 Gear Pump Assembly

Part Number 117147

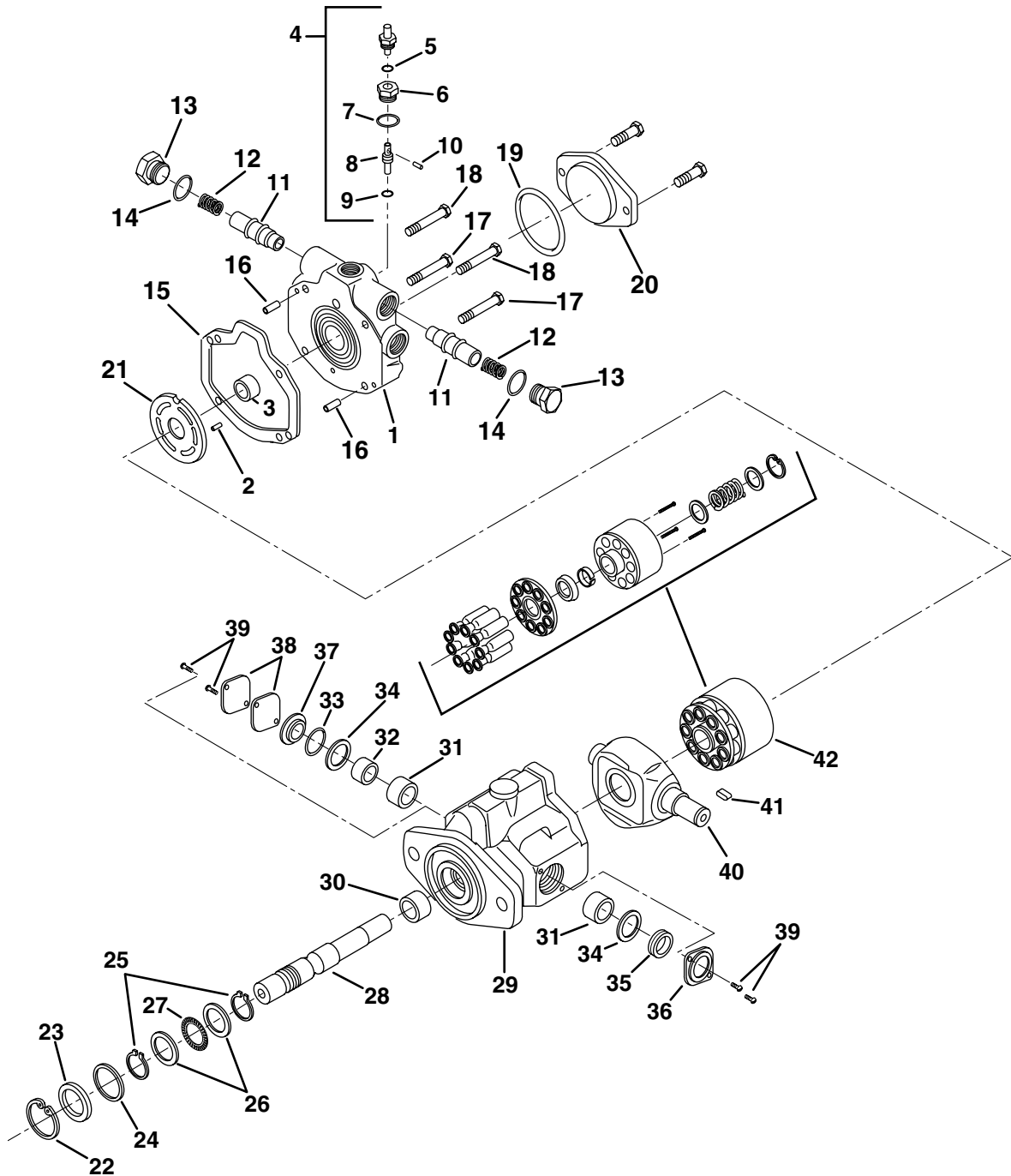


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	NS	1	Rear Body Assembly	
2	NS	1	Center Body Assembly	
3	NS	1	Front Body Assembly	
4	NS	2	Spacer Plate	
5	557752	1	Mounting Flange	
6	557742	1	End Cover	
7	557743	6	Bushing Set	
8	NS	1	Drive Gear Set, Rear,	
9	NS	1	Drive Gear Set, Center,	
10	NS	1	Driveshaft & Gear Ser, Front,	
● 11	–	6	Seal Back Up	
● 12	–	6	Seal Element	
● 13	–	6	O-Ring, Body	
● 14	463005	1	Woodruff Key	
● 15	–	1	Shaft Seal	
● 16	–	1	Circlip	
● 17	–	1	Tab Washer	
● 18	–	1	Locknut	
19	443110	5	Nut	
20	446142	5	Lockwasher	
21	NS	2	Splined Coupling	
22	557753	3	Stud	
23	557754	1	Extended Stud	
●	557755	1	Seal Kit	

> Change from previous revision

56.1 Traction Pump Assembly

Part Number 117140

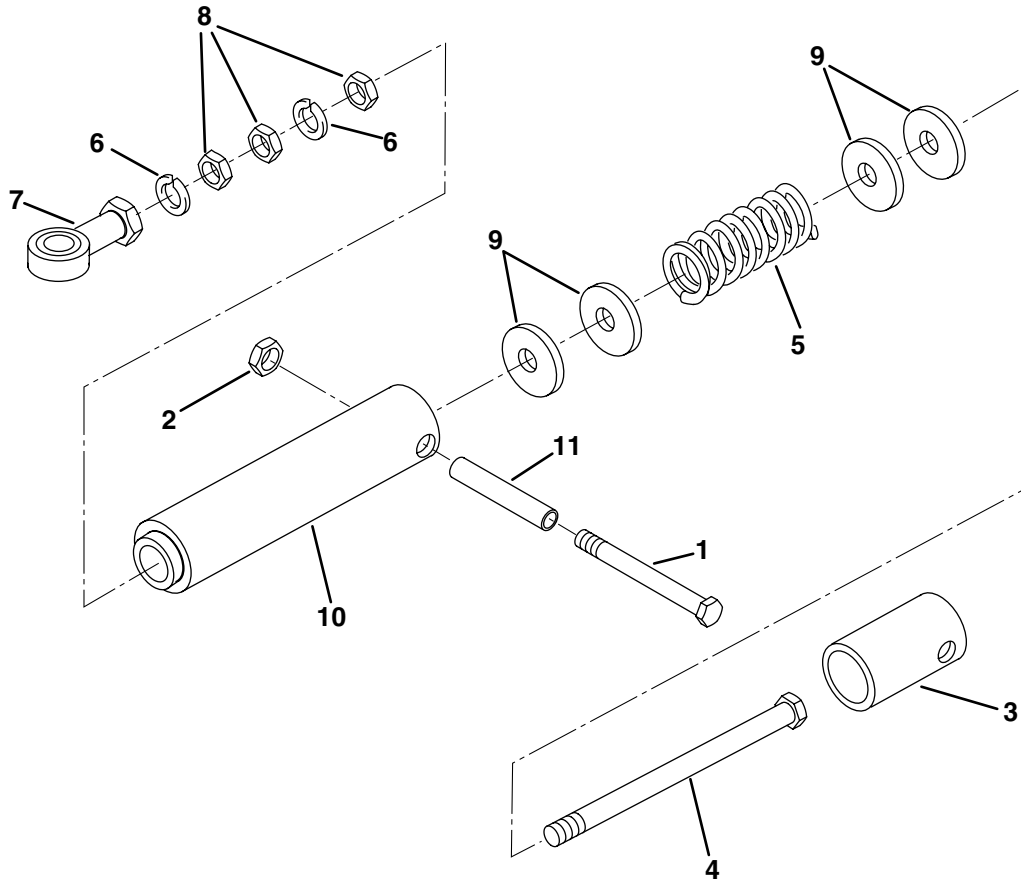


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	557663	1	Backplate Assembly	
2	NS	1	• Roll Pin	
3	557665	1	• Bearing	
4	557666	1	• Dump Valve Assembly	
● 5	–	1	• • Retainer Ring	
6	–	1	• • Separator Ring	
● 7	–	1	• • O-Ring	
8	–	1	• • Spreader	
● 9	–	1	• • O-Ring	
10	–	1	• • Roll Pin	
11	557445	2	Relief Valve Assembly	
12	557448	2	Spring	
13	557444	2	Plug Assembly	
● 14	557673	2	• O-Ring	
● 15	NS	1	Housing Gasket	
16	557454	2	Dowel Pin	
17	557453	2	Cap Screw	
18	557452	2	Cap Screw	
19	557675	1	O-Ring	
20	557676	1	Cover Plate	
21	557441	1	Valve Plate	
● 22	–	1	Retainer Ring	
● 23	557656	1	Shaft Seal	
24	557430	1	Washer	
● 25	–	2	Retainer Ring	
26	557426	2	Bearing Race	
27	557425	1	Bearing	
28	557658	1	Drive Shaft	
29	NS	1	Housing	
30	557660	1	• Bearing	
31	557434	2	Bearing	
32	557435	1	Inner Race (Bearing)	
● 33	–	1	O-Ring	
34	557451	1	Washer	
● 35	–	1	Shaft Seal	
36	557439	1	Seal Cover	
37	557436	1	O-Ring, Cover	
38	557438	2	Trunnion Cover	
39	557449	4	Screws	
40	557437	1	Camplate, Keyed Trunnion	
41	557450	1	Key	
42	557442	1	Rotating Kit Assembly	
●	557446	1	Seal Kit	

> Change from previous revision

57.1 Hydro-Centering Assembly

Part No.1004521

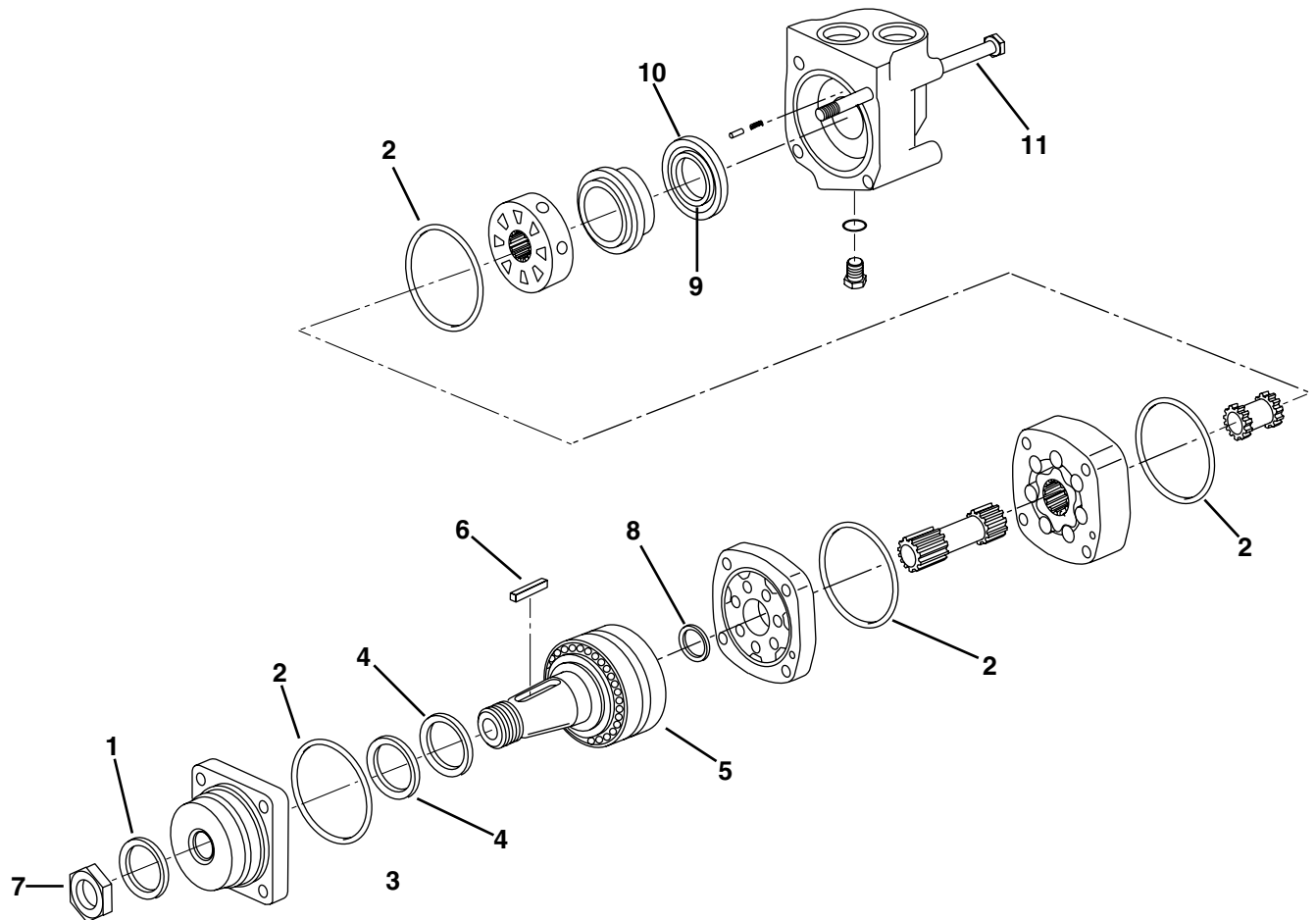


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	400200	1	Screw, 5/16-18 x 2-1/2"	
2	444718	1	Locknut, 5/16-18	
3	3007095	1	Stop, Rear Pivot	
4	358795	1	Screw, 3/8-24 x 5-1/2"	
5	364970	1	Spring, Compression	
6	446142	2	Lockwasher, 3/8 Heavy	
7	3004384	1	Rod End, 3/8-24	
8	443812	3	Nut, 3/8-24	
9	358794	4	Washer	
10	161790	1	Tube Assembly	
11	3000593	1	Spacer	

> Change from previous revision

58.1 Rear Wheel Motor

Part Number 390859

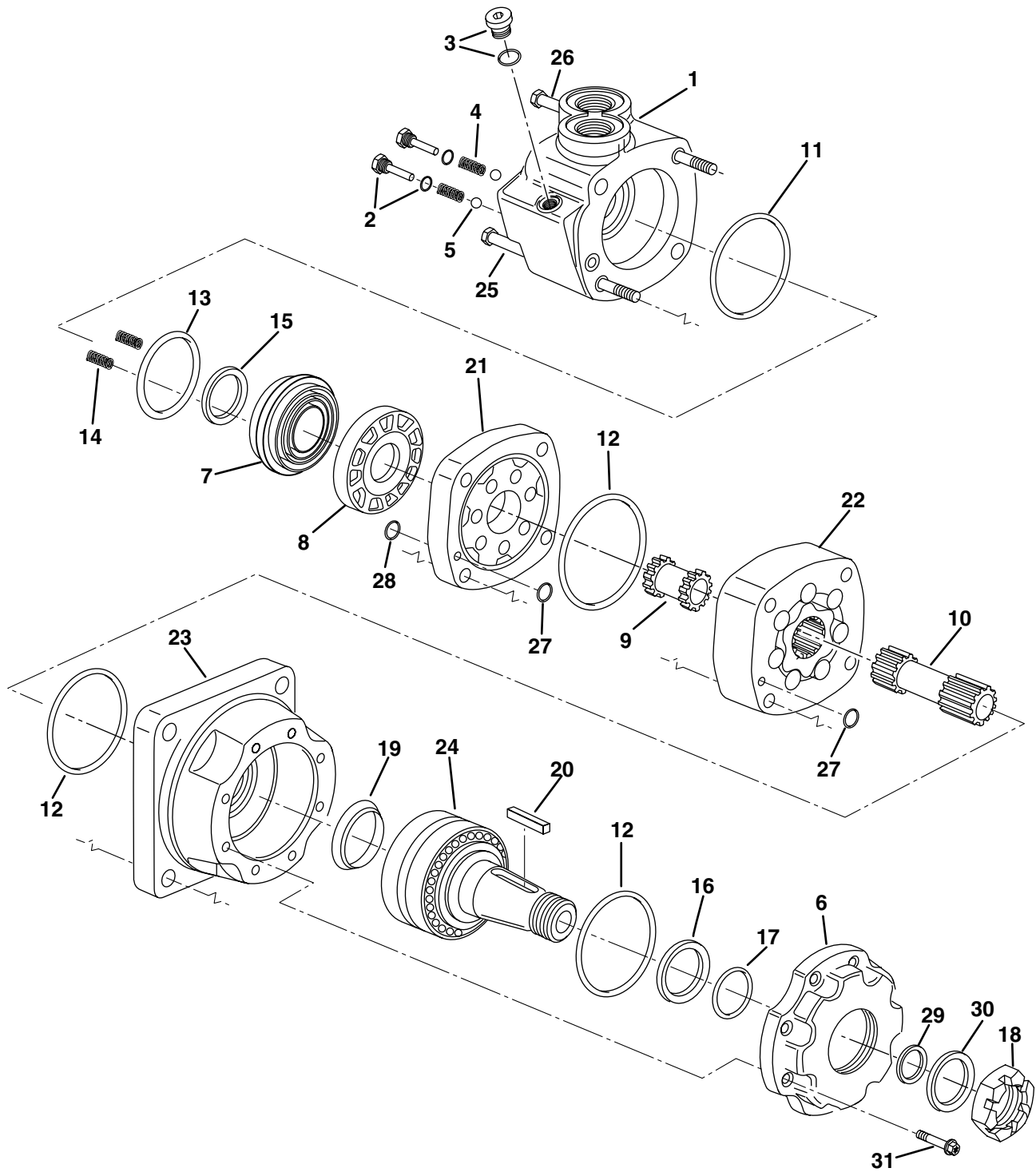


Item	Part No.	Qty.	Description	Serial Numbers/Notes
● 1	—	1	Seal Exclusion	
● 2	—	4	Seal, 3" Inner Diameter	
● 3	—	1	Back Up Ring	
● 4	—	1	Shaft Seal	
5	554781	1	Shaft and Bearing Kit	
6	554780	1	Key	
7	554779	1	Hex Nut	
● 8	—	1	Shaft Face Seal	
● 9	—	1	Inner Face Seal	
● 10	—	1	Outer Face Seal	
11	554782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

> Change from previous revision

59.1 Front Wheel Motor Assembly

Part Number 1001757



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	557638	1	Housing, Valve	
2	557639	2	• Check Plug Assembly	
3	557641	2	• Plug Assembly,7/16-20	
4	557642	2	• Spring	
5	557640	1	• Ball, Steel	
6	5002110	1	Retainer, Front	
7	557637	1	Balance Ring & Pins	
8	557633	1	Valve	
9	557632	1	Drive, Valve	
10	557629	1	Drive, Main	
●	11	1	Seal, 3-1/4" I.D.	
●◆	12	3	Seal, 3-1/2" I.D.	
●	13	1	Seal, Outer Face	
	14	2	Spring	
●	15	1	Seal, Inner Face	
◆	16	1	Seal, Shaft	
◆	17	1	Ring, Back-Up	
	18	1	Nut, Hex	
◆	19	1	Seal, Shaft Face	
	20	1	Key	
	21	1	Plate, Valve	
	22	1	Geroler Sub Assembly	
	23	1	Housing, Shaft Bearing	
	24	1	Shaft Sub Assembly	
	25	3	Bolt, 5-3/4"	
	26	1	Bolt	
●	27	2	Seal, 1/4" I.D.	
●	28	1	Seal	
◆	29	1	Seal, Dust	
◆	30	1	Seal Guard	
	31	8	Screw, Torx	
●	557651	1	Front Motor Seal Kit	
◆	5002111	1	Seal Kit	

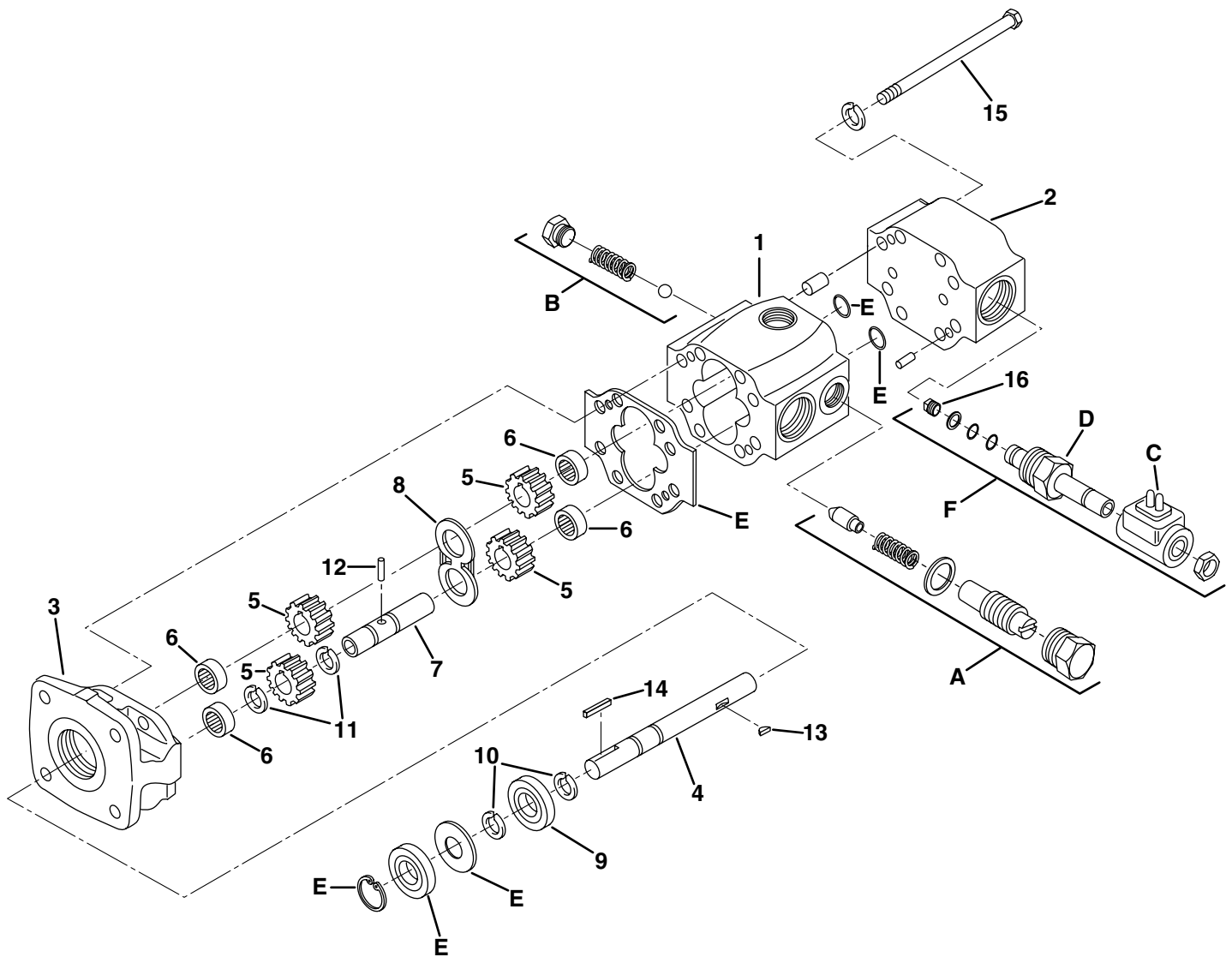
> Change from previous revision

LF-3810

60.1 Fan Motor Assembly

Part No.117158

Serial No. All

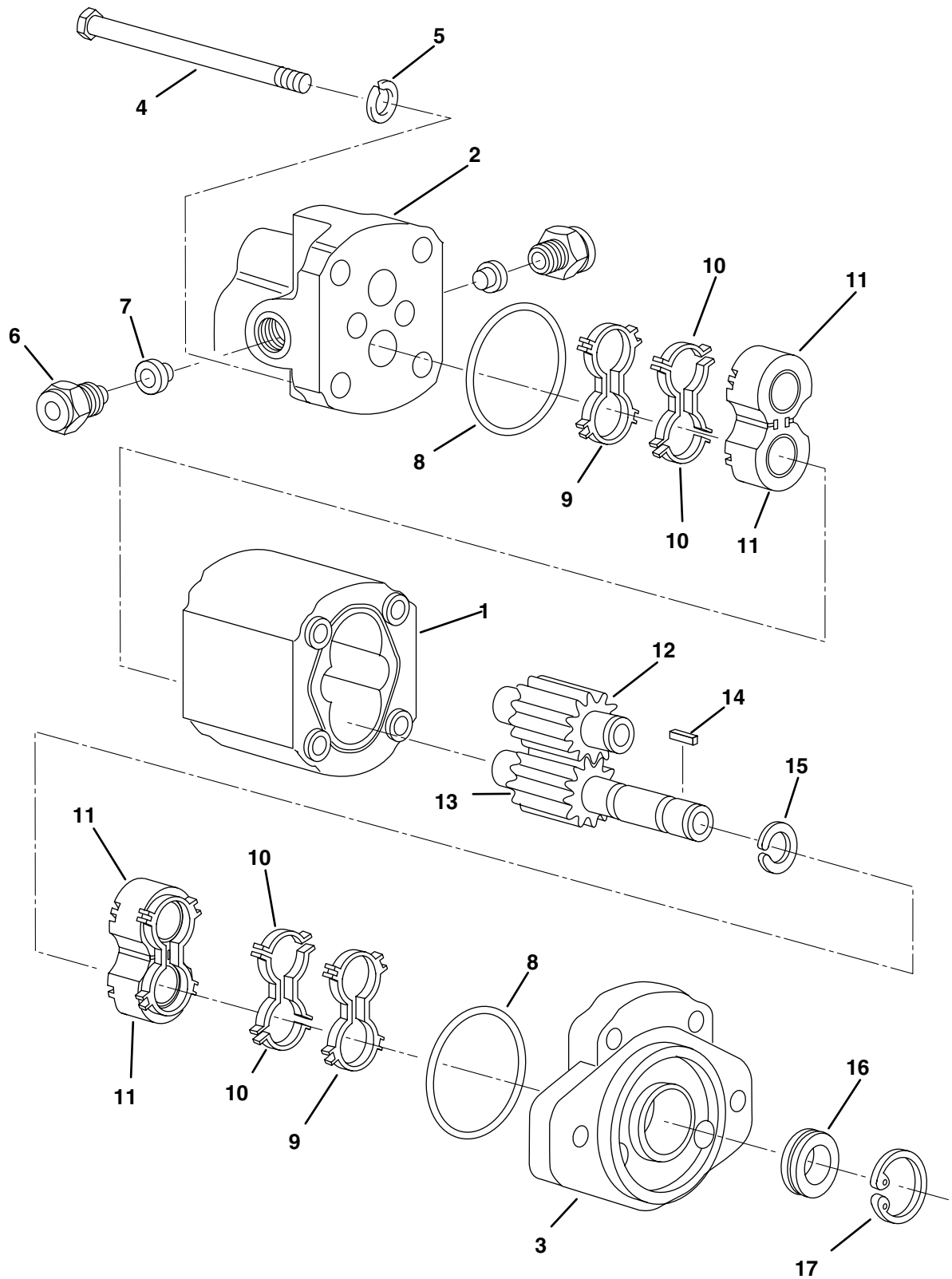


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	NS	1	End Gear Housing	
2	557805	1	Valve Block	
3	NS	1	Stator	
4	557794	1	Drive Shaft	
5	557795	4	Gear, GC	
6	557797	4	Needle Bearing	
7	557798	1	Idler	
8	557804	1	Gear, Spacer Plate	
9	557803	1	Ball Bearing	
10	555826	2	Crescent Ring, External	
11	555826	2	Crescent Ring, Internal	
12	555825	1	Pin, Drive	
13	557793	2	Key, Woodruff	
14	557801	1	Key	
15	557800	8	Bolt	
16	557806	1	Pipe Plug	
Service Kits				
A	557807	1	Relief Valve Kit	
B	557808	1	Check Valve Kit	
C	557809	1	Solenoid Coil Replacement Kit	
D	557810	1	Solenoid Kit	
E	557811	1	Seal Kit	
F	557812	1	Solenoid Valve Seal Kit	

> Change from previous revision

61.1 Reel Motor Assembly

Part Number 4103920

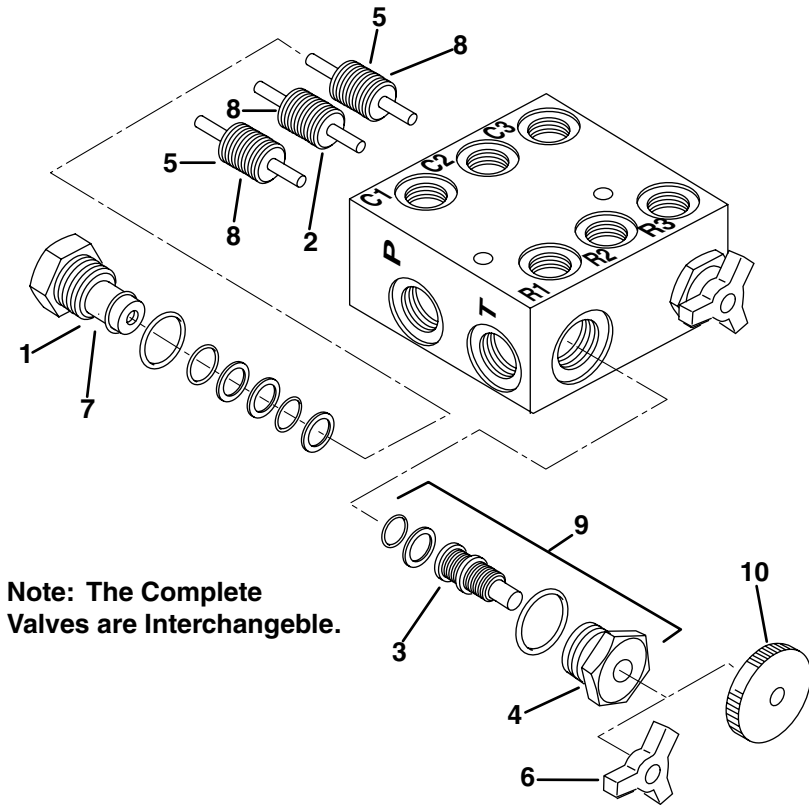


Item	Part No.	Qty.	Description	Serial Numbers/Notes
Ultra Motor				
1	NS	1	Body and Dowel Assembly	
2	557780	1	End Cover	
3	557752	1	Flange	
4	557778	4	Zinc Plated Bolt	
5	446142	4	Spring Washer	
6	557785	2	O-Ring	
7	557784	2	Relief Valve	
● 8	–	2	Body O-Ring	
● 9	–	2	Back Up Seal	
● 10	–	2	Bushing Seals	
11	557781	2	Bushing (Set of 2)	
	NS	1	Gear Set	
12	NS	1	• Driven Gear	
13	NS	1	• Driveshaft Gear	
● 14	–	2	Square Key	
● 15	–	1	Circlip	
● 16	–	1	Shaft Seal	
● 17	–	1	Circlip	
●	557786	1	Seal Kit	
Casappa Motor				
1	NS	1	Body and Dowel Assembly	
	5002498		• Dowel	
2	5002494	1	End Cover	
3	5002496	1	Flange	
4	5002492	4	Zinc Plated Bolt	
5	5002493	4	Spring Washer	
6	5002502	2	O-Ring	
7	5002501	2	Relief Valve	
● 8	–	2	Body O-Ring	
● 9	–	2	Back Up Seal	
● 10	–	2	Bushing Seals	
11	5002495	2	Bushing (Set of 2)	
	NS	1	Gear Set	
12	NS	1	• Driven Gear	
13	NS	1	• Driveshaft Gear	
● 14	–	2	Square Key	
● 15	–	1	Circlip	
● 16	–	1	Shaft Seal	
● 17	–	1	Circlip	
●	5002497	1	Seal Kit	

> Change from previous revision

62.1 Manifold Valve

Part No.117150



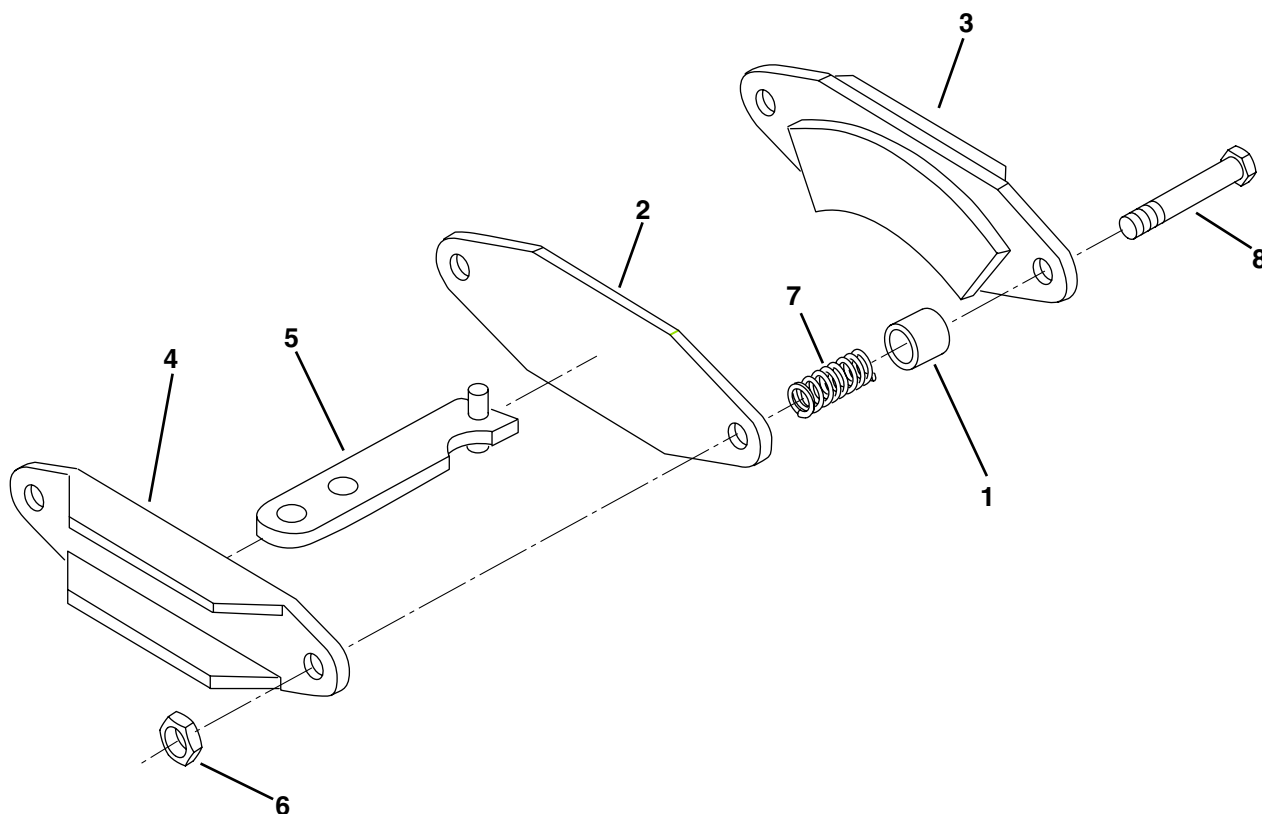
Note: The Complete Valves are Interchangeble.

Item	Part No.	Qty.	Description	Serial Numbers/Notes
Delta Valve				
1	557688	3	Check Valve	
2	557689	1	Piston Assembly	
3	557691	2	Spool Assembly	
4	557692	2	Retainer Assembly	
5	557693	2	Piston Assembly	
6	557694	2	Knob Assembly	
●	5000319	1	Seal Kit	
HydroForce Valve				
7	5001355	3	Check Valve	
	5003578	1	• Seal Kit	
8	5001356	3	Piston Assembly	
	339909	1	• O-Ring	
9	5001357	2	Spool and Retainer Assembly	
	5003578	1	• Seal Kit	
10	5001358	2	Knob Assembly	

> Change from previous revision

63.1 Disc Brake

R.H Part Number 503308, L.H. Part Number 503309



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	554579	2	Spacer, Brake	
2	503296	1	Stud Plate with Lining	
3	503295	1	Rib Plate with Lining	
4	549441	1	V-Plate	
5	502517	1	Cam Lever, R.H.	
6	590259	2	Nut, 3/8-24 Center Lock	
7	549443	2	Spring, Brake Return	
8	590260	2	Screw, 3/8-24 x 2-1/4"	

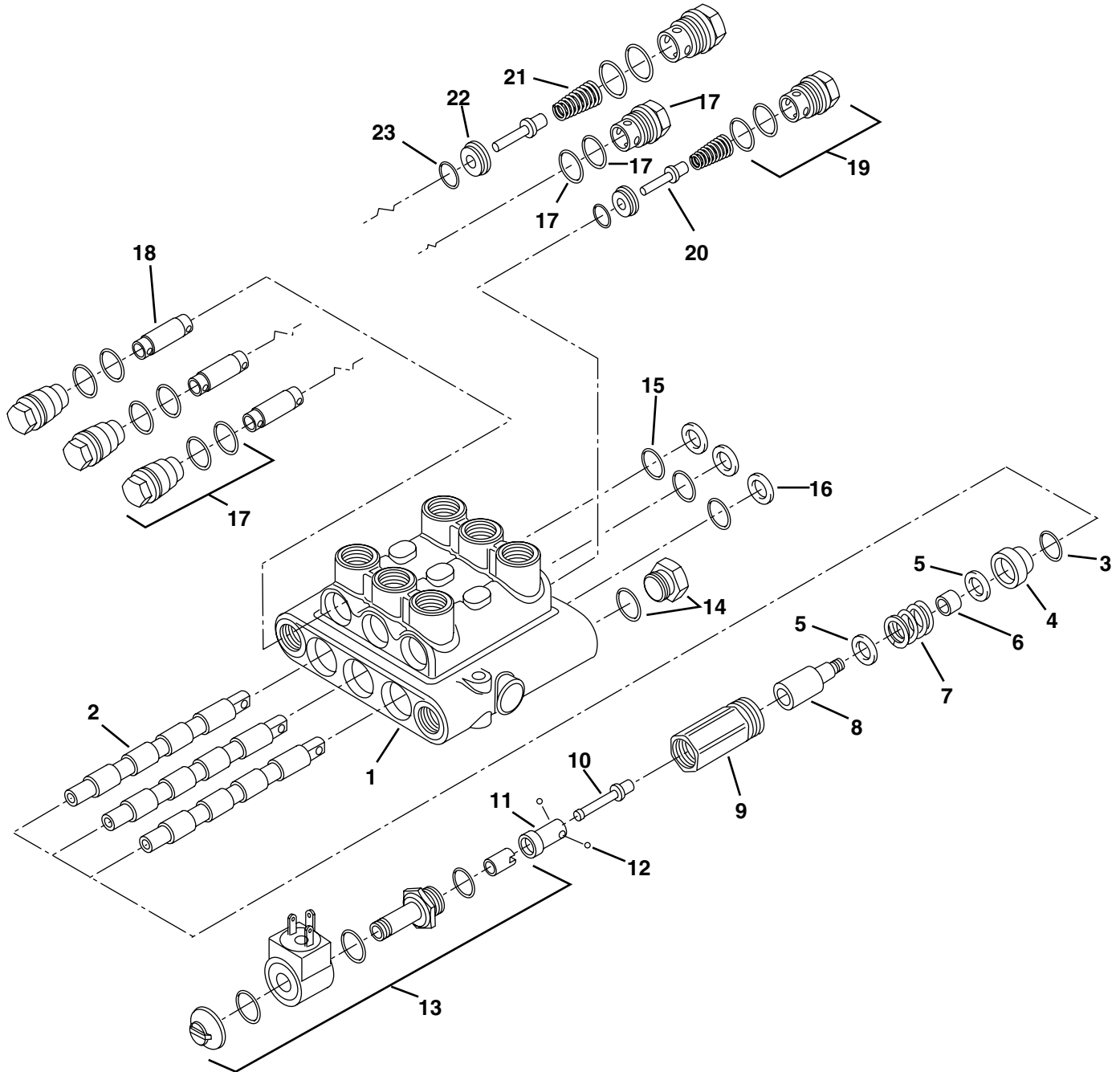
> Change from previous revision

LF-3810

64.1 Lift Valve Assembly

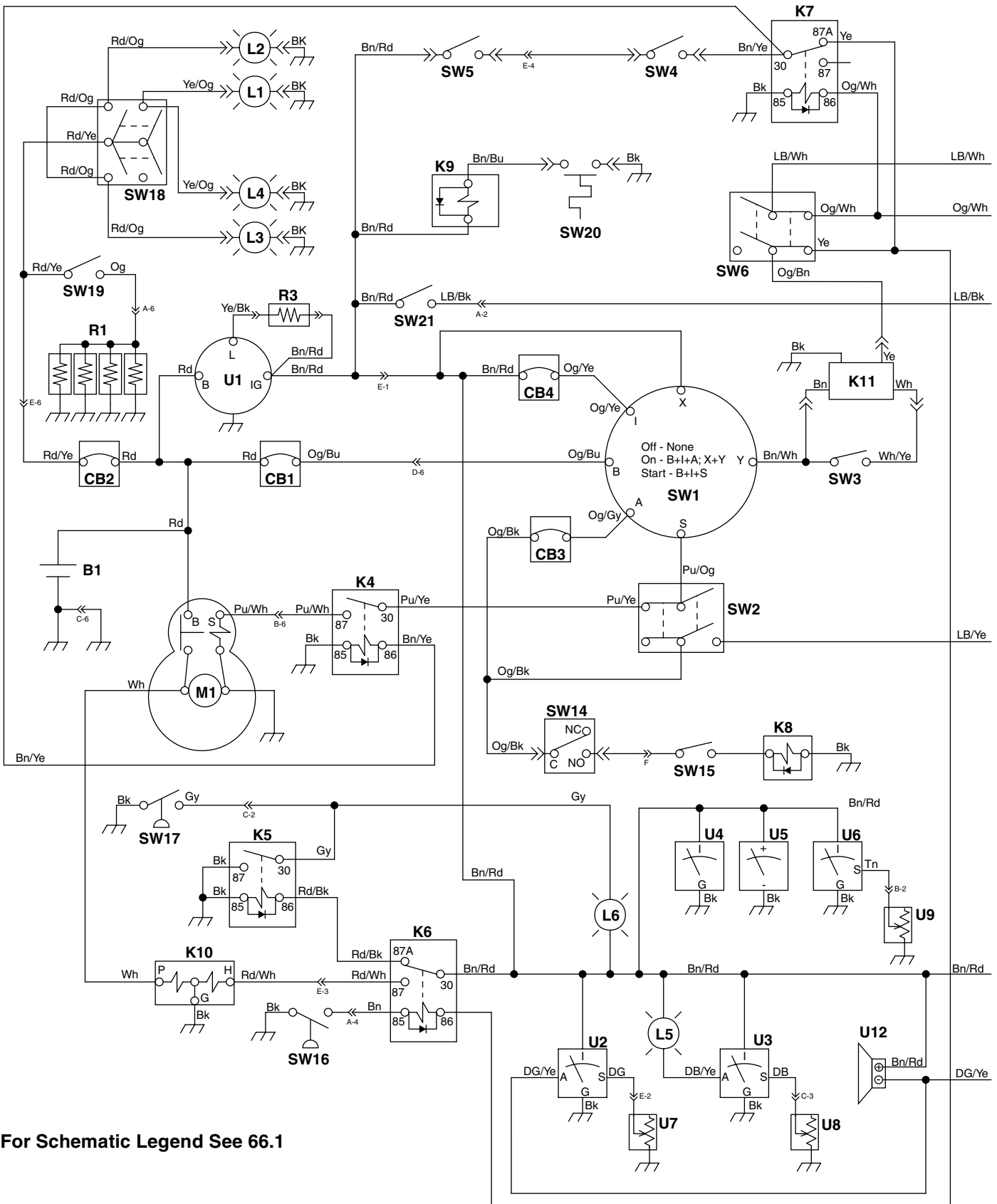
Part Number 117149

Serial No. All

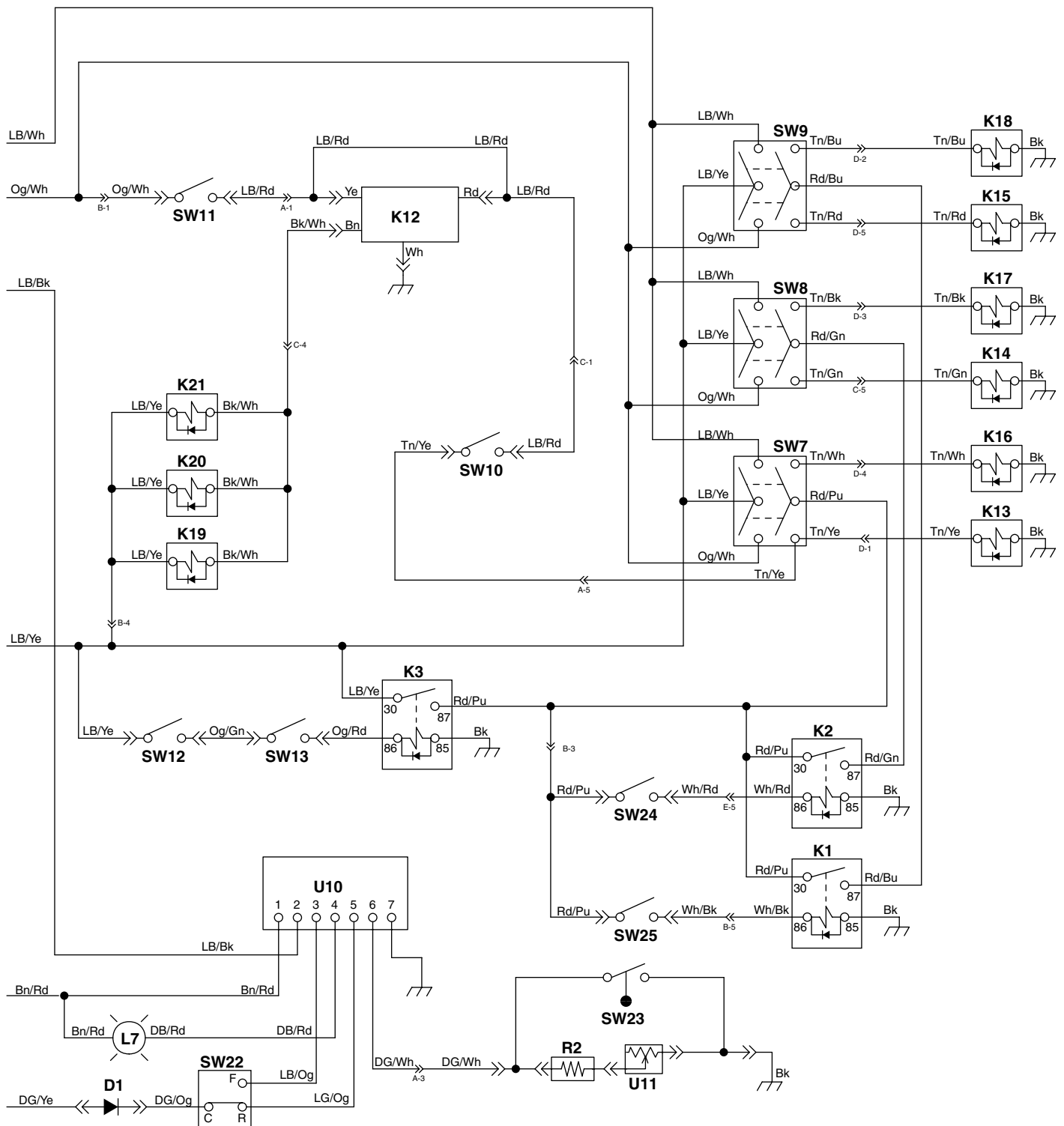


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Body	
2	N/S	3	Spool	
● 3	N/S	3	O-Ring	
4	557724	3	Bushing	
5	557721	6	Washer	
6	557723	3	Spool Spacer	
7	557722	3	Spring	
8	557720	3	Spool Screw	
9	5001595	3	End Cap	
10	557716	3	Detent Cone	
11	557714	3	Adapter	
12	557715	9	Ball	
13	557711	3	Solenoid Actuator (Pull Type)	
●	N/S	6	• O-Ring	
●	N/S	3	• O-Ring	
14	557728	1	Plug Assembly	
●	N/S	1	• O-Ring	
● 15	N/S	3	O-Ring	
● 16	N/S	3	Wiper Seal	
17	557697	4	Plug Assembly	
●	N/S	4	• Backup Ring	
●	N/S	4	• O-Ring	
18	557701	3	Plunger	
19	557707	2	Plug Assembly	
●	N/S	2	• Backup Ring	
●	N/S	2	• O-Ring	
● 20	N/S	2	Poppet	
21	557706	2	Spring	
22	557702	3	Seat Assembly	
● 23	N/S	3	• O-Ring	
●	557731	1	Seal Kit	

> Change from previous revision



For Schematic Legend See 66.1



For Schematic Legend See 66.1

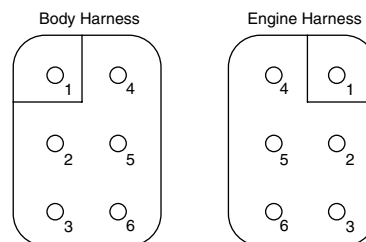
Component Abbreviations

B1 - Battery	SW1 - Ignition Switch
CB1 - 50 Amp Circuit Breaker	SW2 - Main Reel Switch
CB2 - 50 Amp Circuit Breaker	SW3 - Seat Switch
CB3 - 30 Amp Circuit Breaker	SW4 - Brake Switch
CB4 - 10 Amp Circuit Breaker	SW5 - Neutral Start Switch
D1 - Diode Connector	SW6 - Backlap Switch
K1 - Right Wing Reel Relay (NO)	SW7 - Center Reel Switch
K2 - Left Wing Reel Relay (NO)	SW8 - Left Wing Reel Switch
K3 - Reel Control Relay (NO)	SW9 - Right Wing Reel Switch
K4 - Starter Relay (NO)	SW10 - Lift Switch
K5 - Charge Filter Relay (NO)	SW11 - Lower Switch
K6 - Fuel Solenoid Interlock Relay (NC)	SW12 - Left Front Arm Switch
K7 - Mow Interlock Relay (NC)	SW13 - Right Front Arm Switch
K8 - 4WD Solenoid	SW14 - 4WD Switch
K9 - Fan Motor Solenoid	SW15 - 4WD Reverse Switch
K10 - Fuel Shut Off Solenoid	SW16 - Low Charge Pressure Switch
K11 - Seat Time Delay Relay	SW17 - Charge Filter Delta Pressure Switch
K12 - Crosscut Timer Relay	SW18 - Light Switch
K13 - Center Mow Solenoid	SW19 - Glow Plug Switch
K14 - Left Wing Mow Solenoid	SW20 - Engine Temperature Switch
K15 - Right Wing Mow Solenoid	SW21 - GreenSentry Flow Switch
K16 - Center Backlap Solenoid	SW22 - GreenSentry Horn Switch
K17 - Left Wing Backlap Solenoid	SW23 - GreenSentry Float Switch
K18 - Right Wing Solenoid	SW24 - Left Wing Arm Switch
K19 - Right Wing Lift Solenoid	SW25 - Right Wing Arm Switch
K20 - Center Lift Solenoid	U1 - Alternator
K21 - Left Wing Solenoid	U2 - Water Temperature Gauge
L1 - Left Side Light (Option)	U3 - Engine Oil Pressure Gauge
L2 - Left Front Light (Option)	U4 - Volt Meter
L3 - Right Front Light (Option)	U5 - Hour Meter
L4 - Right Side Light (Option)	U6 - Fuel Gauge
L5 - Engine Oil Light	U7 - Water Temperature Sender
L6 - Charge Filter Light	U8 - Engine Oil Pressure Sender
L7 - GreenSentry Light	U9 - Fuel Level Sender
M1 - Starter Motor	U10 - GreenSentry Module
R1 - Glow Plugs	U11 - Hydraulic Oil Temperature Sender
R2 - 220 Ohm, 25 Watt Resister	U12 - Horn
R3 - 75 Ohm, 1 Watt Resistor	

Wire Colors

Bk - Black	LG - Light Green
Bn - Brown	Og - Orange
Bu - Blue	Pk - Pink
DB - Dark Blue	Pu - Purple
DG - Dark Green	Rd - Red
Gn - Green	Tn - Tan
Gy - Gray	Wh - White
LB - Light Blue	Ye - Yellow

Connector Pin Identification



Connectors A ~ E
(Viewed from end)

67.1 Electrical Schematic Legend

Serial No. 67827 - 1917 ~ 1989
Serial No. 67828 - 2082 ~ 2408

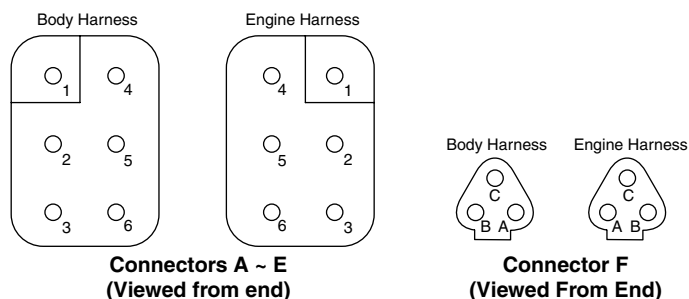
Component Abbreviations

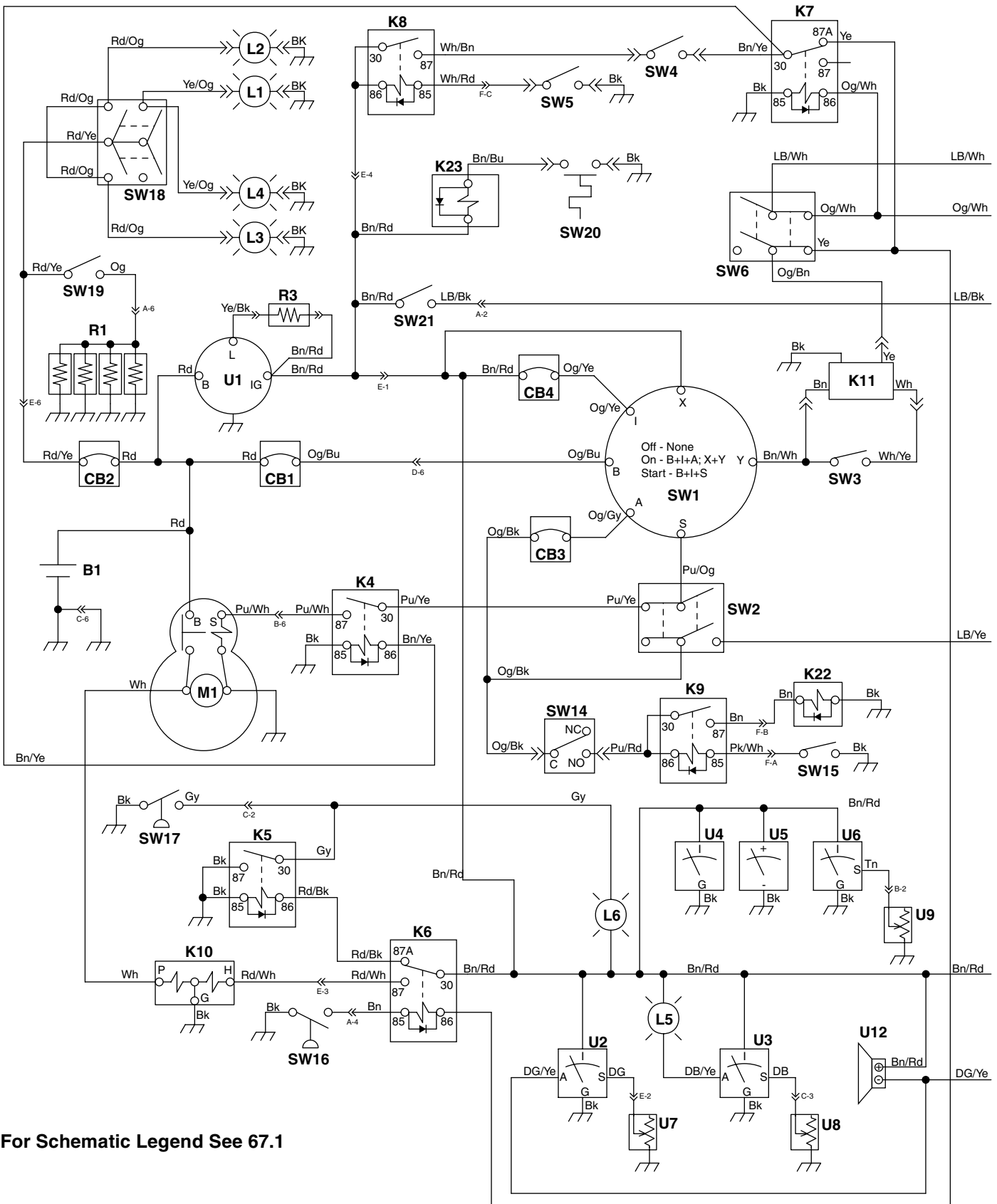
- | | |
|---|--|
| B1 - Battery | SW1 - Ignition Switch |
| CB1 - 50 Amp Circuit Breaker | SW2 - Main Reel Switch |
| CB2 - 50 Amp Circuit Breaker | SW3 - Seat Switch |
| CB3 - 30 Amp Circuit Breaker | SW4 - Brake Switch |
| CB4 - 10 Amp Circuit Breaker | SW5 - Neutral Start Switch |
| D1 - Diode Connector | SW6 - Backlap Switch |
| K1 - Right Wing Reel Relay (NO) | SW7 - Center Reel Switch |
| K2 - Left Wing Reel Relay (NO) | SW8 - Left Wing Reel Switch |
| K3 - Reel Control Relay (NO) | SW9 - Right Wing Reel Switch |
| K4 - Starter Relay (NO) | SW10 - Lift Switch |
| K5 - Charge Filter Relay (NO) | SW11 - Lower Switch |
| K6 - Fuel Solenoid Interlock Relay (NC) | SW12 - Left Front Arm Switch |
| K7 - Mow Interlock Relay (NC) | SW13 - Right Front Arm Switch |
| K8 - Neutral Start Relay (NO) | SW14 - 4WD Switch |
| K9 - 4WD Relay (NO) | SW15 - 4WD Reverse Switch |
| K10 - Fuel Shut Off Solenoid | SW16 - Low Charge Pressure Switch |
| K11 - Seat Time Delay Relay | SW17 - Charge Filter Delta Pressure Switch |
| K12 - Crosscut Timer Relay | SW18 - Light Switch |
| K13 - Center Mow Solenoid | SW19 - Glow Plug Switch |
| K14 - Left Wing Mow Solenoid | SW20 - Engine Temperature Switch |
| K15 - Right Wing Mow Solenoid | SW21 - GreenSentry Flow Switch |
| K16 - Center Backlap Solenoid | SW22 - GreenSentry Horn Switch |
| K17 - Left Wing Backlap Solenoid | SW23 - GreenSentry Float Switch |
| K18 - Right Wing Solenoid | SW24 - Left Wing Arm Switch |
| K19 - Right Wing Lift Solenoid | SW25 - Right Wing Arm Switch |
| K20 - Center Lift Solenoid | U1 - Alternator |
| K21 - Left Wing Solenoid | U2 - Water Temperature Gauge |
| K22 - 4WD Solenoid | U3 - Engine Oil Pressure Gauge |
| K23 - Fan Motor Solenoid | U4 - Volt Meter |
| L1 - Left Side Light (Option) | U5 - Hour Meter |
| L2 - Left Front Light (Option) | U6 - Fuel Gauge |
| L3 - Right Front Light (Option) | U7 - Water Temperature Sender |
| L4 - Right Side Light (Option) | U8 - Engine Oil Pressure Sender |
| L5 - Engine Oil Light | U9 - Fuel Level Sender |
| L6 - Charge Filter Light | U10 - GreenSentry Module |
| L7 - GreenSentry Light | U11 - Hydraulic Oil Temperature Sender |
| M1 - Starter Motor | U12 - Horn |
| R1 - Glow Plugs | |
| R2 - 220 Ohm, 25 Watt Resister | |
| R3 - 75 Ohm, 1 Watt Resistor | |

Wire Colors

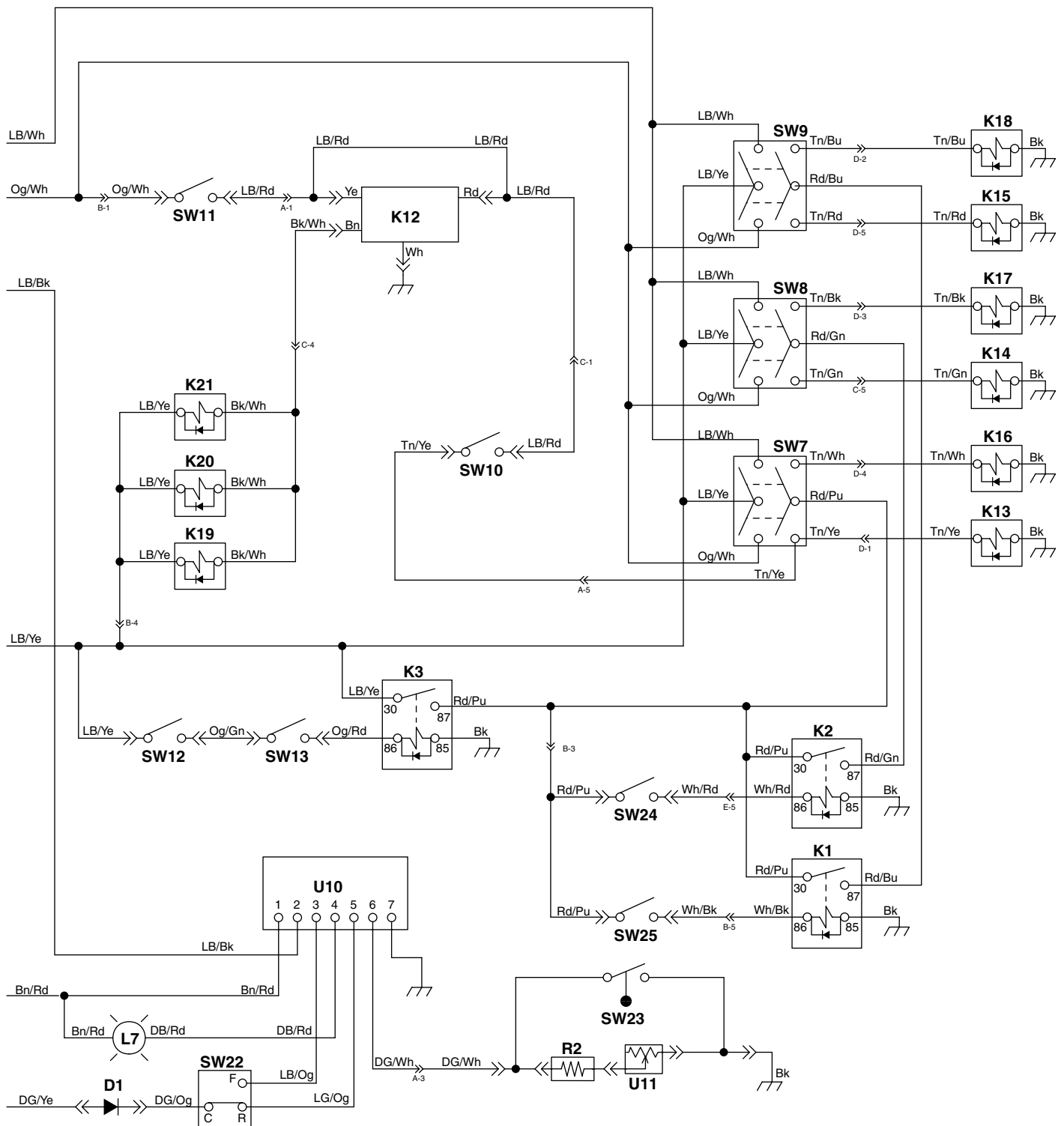
- | | |
|-----------------|------------------|
| Bk - Black | LG - Light Green |
| Bn - Brown | Og - Orange |
| Bu - Blue | Pk - Pink |
| DB - Dark Blue | Pu - Purple |
| DG - Dark Green | Rd - Red |
| Gn - Green | Tn - Tan |
| Gy - Gray | Wh - White |
| LB - Light Blue | Ye - Yellow |

Connector Pin Identification





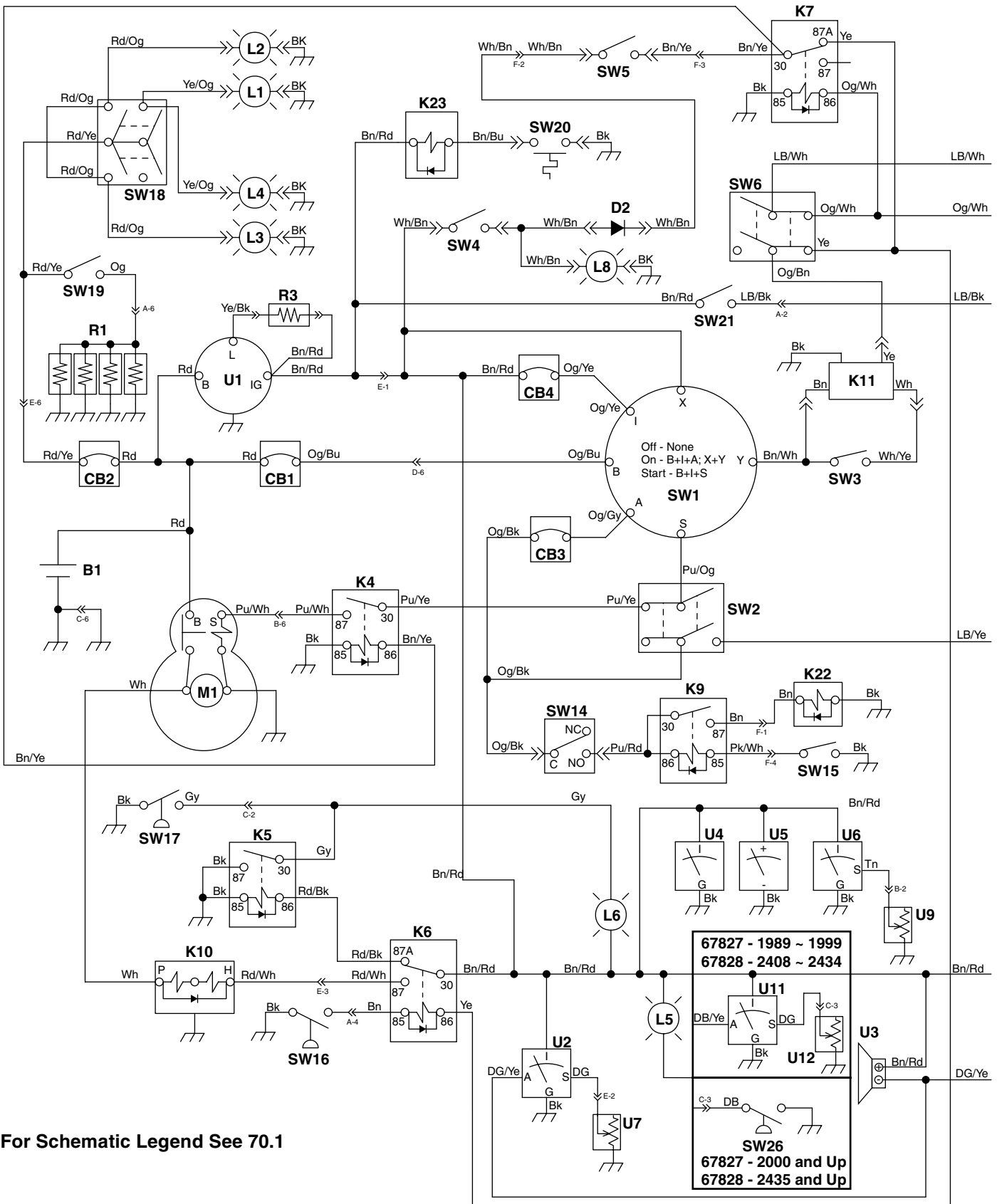
For Schematic Legend See 67.1



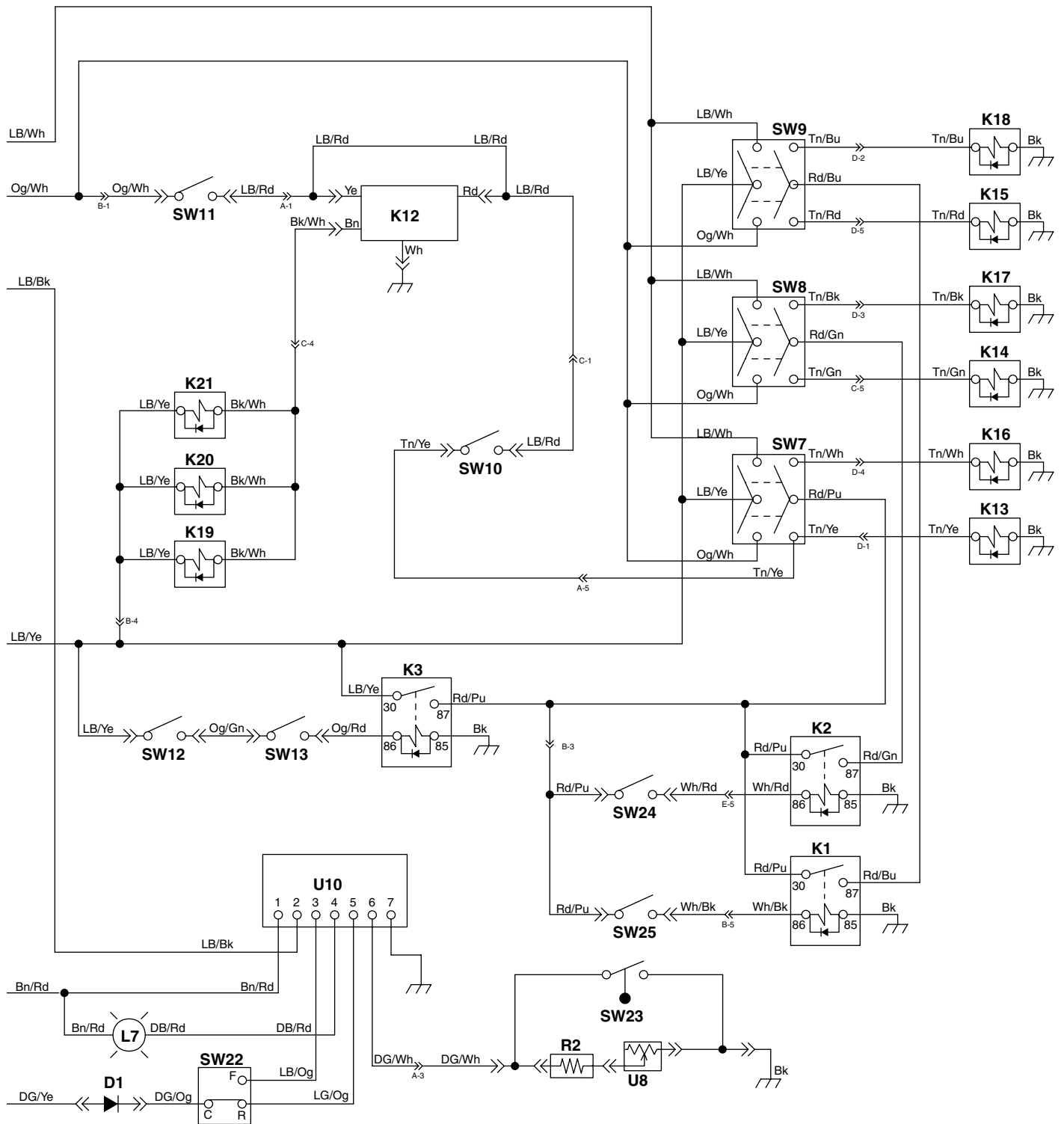
For Schematic Legend See 67.1

69.1 Electrical Schematic

Serial No. 67827 - 1989 and Up
Serial No. 67828 - 2408 and Up



For Schematic Legend See 70.1



For Schematic Legend See 70.1

Component Abbreviations

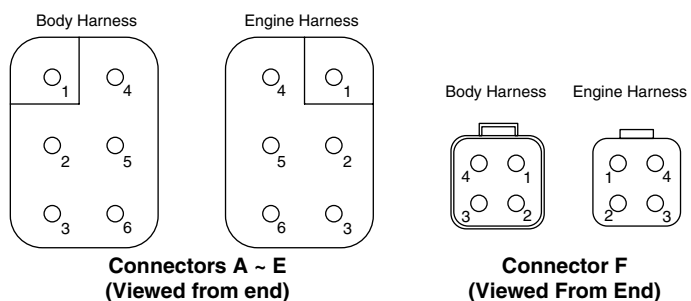
B1 - Battery	R3 - 75 Ohm, 1 Watt Resistor
CB1 - 50 Amp Circuit Breaker	SW1 - Ignition Switch
CB2 - 50 Amp Circuit Breaker	SW2 - Main Reel Switch
CB3 - 30 Amp Circuit Breaker	SW3 - Seat Switch
CB4 - 10 Amp Circuit Breaker	SW4 - Brake Switch
D1 - GreenSentry Diode Connector	SW5 - Neutral Start Switch
D2 - Brake Light Diode	SW6 - Backlap Switch
K1 - Right Wing Reel Relay (NO)	SW7 - Center Reel Switch
K2 - Left Wing Reel Relay (NO)	SW8 - Left Wing Reel Switch
K3 - Reel Control Relay (NO)	SW9 - Right Wing Reel Switch
K4 - Starter Relay (NO)	SW10 - Lift Switch
K5 - Charge Filter Relay (NO)	SW11 - Lower Switch
K6 - Fuel Solenoid Interlock Relay (NC)	SW12 - Left Front Arm Switch
K7 - Mow Interlock Relay (NC)	SW13 - Right Front Arm Switch
K9 - 4WD Relay (NO)	SW14 - 4WD Switch
K10 - Fuel Shut Off Solenoid	SW15 - 4WD Reverse Switch
K11 - Seat Time Delay Relay	SW16 - Low Charge Pressure Switch
K12 - Crosscut Timer Relay	SW17 - Charge Filter Delta Pressure Switch
K13 - Center Mow Solenoid	SW18 - Light Switch
K14 - Left Wing Mow Solenoid	SW19 - Glow Plug Switch
K15 - Right Wing Mow Solenoid	SW20 - Engine Temperature Switch
K16 - Center Backlap Solenoid	SW21 - GreenSentry Flow Switch
K17 - Left Wing Backlap Solenoid	SW22 - GreenSentry Horn Switch
K18 - Right Wing Solenoid	SW23 - GreenSentry Float Switch
K19 - Right Wing Lift Solenoid	SW24 - Left Wing Arm Switch
K20 - Center Lift Solenoid	SW25 - Right Wing Arm Switch
K21 - Left Wing Solenoid	SW26 - Engine Oil Pressure Switch ▲
K22 - 4WD Solenoid	U1 - Alternator
K23 - Fan Motor Solenoid	U2 - Water Temperature Gauge
L1 - Left Side Light (Option)	U3 - Horn
L2 - Left Front Light (Option)	U4 - Volt Meter
L3 - Right Front Light (Option)	U5 - Hour Meter
L4 - Right Side Light (Option)	U6 - Fuel Gauge
L5 - Engine Oil Light	U7 - Water Temperature Sender
L6 - Charge Filter Light	U8 - Hydraulic Oil Temperature Sender
L7 - GreenSentry Light	U9 - Fuel Level Sender
L8 - Brake Light	U10 - GreenSentry Module
M1 - Starter Motor	U11 - Engine Oil Pressure Gauge ●
R1 - Glow Plugs	U12 - Engine Oil Pressure Sender ●
R2 - 220 Ohm, 25 Watt Resister	

- Serial No 67827 - 1989 ~ 1999
- Serial No 67828 - 2408 ~ 2434
- ▲ Serial No 67827 - 2000 and Up
- ▲ Serial No 67828 - 2435 and Up

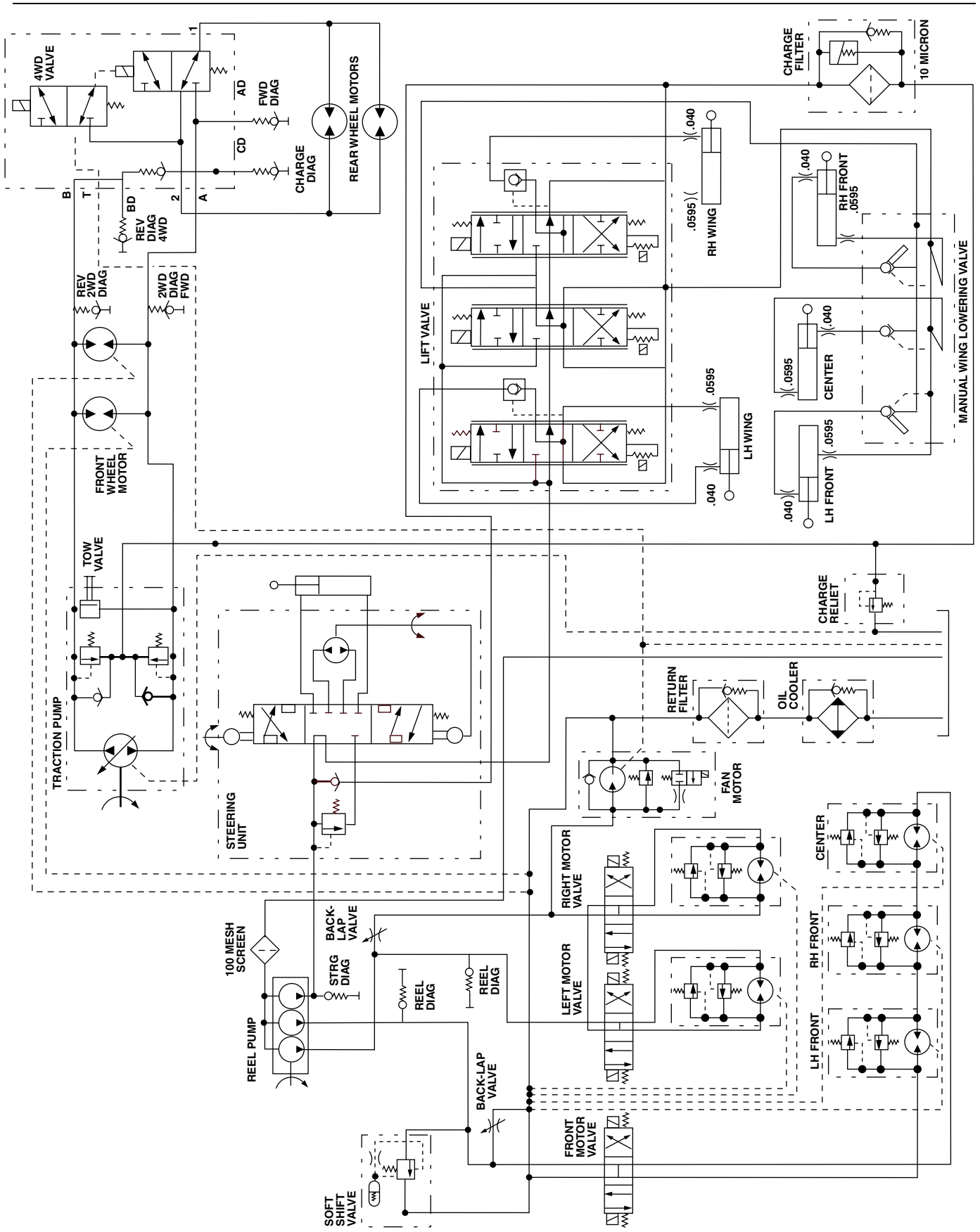
Wire Colors

Bk - Black	LG - Light Green
Bn - Brown	Og - Orange
Bu - Blue	Pk - Pink
DB - Dark Blue	Pu - Purple
DG - Dark Green	Rd - Red
Gn - Green	Tn - Tan
Gy - Gray	Wh - White
LB - Light Blue	Ye - Yellow

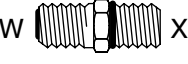
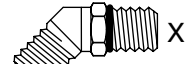

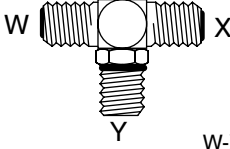
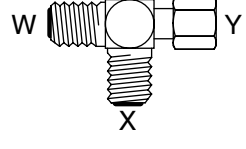
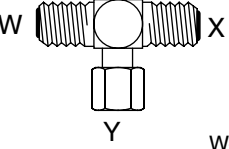
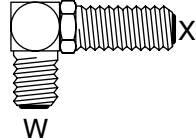
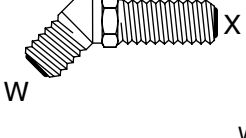
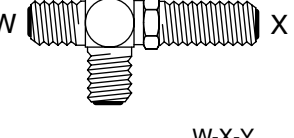
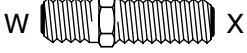
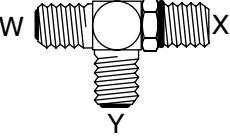

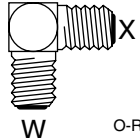
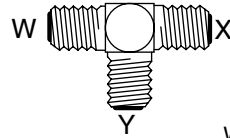
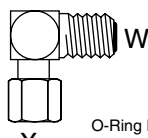
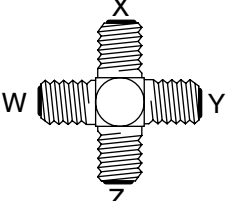

Connector Pin Identification



71.1 Hydraulic Schematic



72.1 O-Ring Chart

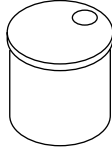

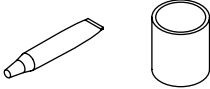
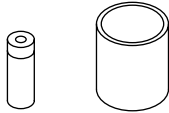

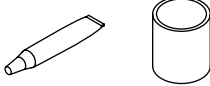
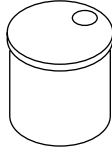
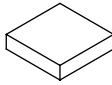
 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Boss Dash Size</p>	 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Boss Dash Size</p>	 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Boss Dash Size</p>
 <p>O-Ring Face Seal Size — $W-X-Y$ — O-Ring Boss Dash Size</p>	 <p>O-Ring Face Seal Size — $W-X-Y$ — O-Ring Face Seal Size — O-Ring Not Needed</p>	 <p>O-Ring Face Seal Size — $W-X-Y$ — O-Ring Face Seal Size — O-Ring Not Needed</p>
 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size — $W-X-Y$ — O-Ring Face Seal Size — O-Ring Face Seal Size</p>
 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size — $W-X-Y$ — O-Ring Boss Dash Size — O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Face Seal Size</p>
 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size — $W-X-Y$ — O-Ring Face Seal Size — O-Ring Face Seal Size</p>	 <p>O-Ring Face Seal Size — $W-X$ — O-Ring Not Needed</p>
 <p>O-Ring Face Seal Size — $W-X-Y-Z$ — O-Ring Face Seal Size — O-Ring Face Seal Size — O-Ring Face Seal Size</p>		

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

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

> Change from previous revision

Fluids and Compounds

Hydraulic Fluid*		
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	
2-Cycle Oil		
554600	Twenty Four 16 Ounce Plastic Container	
554599	Twenty Four 8 Ounce Plastic Container	
Grease		
5000067	One 5 Gallon Pail OO-Grease	
5000068	Twenty Four 8 Ounce Tube OO-Grease	
Paint		
5003469	16 Ounce Gray Aerosol	
554598	Six 12 Ounce Orange Aerosol	
2500789	Twelve 1 Quart Can Orange	
546409	Two 1 Gallon Can Orange	
Lapping Compound		
5002488	One 10 Pound Pail of 80 Grit	
5002490	One 25 Pound Pail of 80 Grit	
5002489	One 10 Pound Pail of 120 Grit	
5002491	One 25 Pound Pail of 120 Grit	
Specialty Compound		
365422	5.3 Ounce Tube of Electrical Insulating Gel	
5001581	14 Ounce Can of Lubriplate Multi Lube A	
Biodegradable Hydraulic Fluid*		
5003102	One 55 Gallon Drum TTCSP Greens Care 68	
5003103	One 5 Gallon Pail TTCSP Greens Care 68	
5003105	One 55 Gallon Drum TTCSP Greens Care 46	
5003104	One 5 Gallon Pail TTCSP Greens Care 46	
5003106	Twenty Four 14 Ounce Tube Greens Care Grease	
O-Ring Kit		
5002452	SAE O-Ring Boss (3/32 ~ 2" Tube O.D.)	
5002453	Common O-Ring Kit	
5002454	O-Ring Face Seal ORFS (-4 ~ -24 ORS Tube Size)	
Fuel Cans		
554948	One 2.5 Gallon Plastic	
554948	One 5 Gallon Plastic	
Right Start Kit for New Machines		
See your local TTCSP Dealer		
On-Time Maintenance Kit		
See your local TTCSP Dealer		

* Refer to the Parts & Maintenance manual for the correct hydraulic oil requirements for your machine. Textron Turf Care And Specialty Products offers a High Usage Parts Catalog illustrating commonly used Parts through easy to read line Drawings. See your local TTCSP Dealer for a copy.

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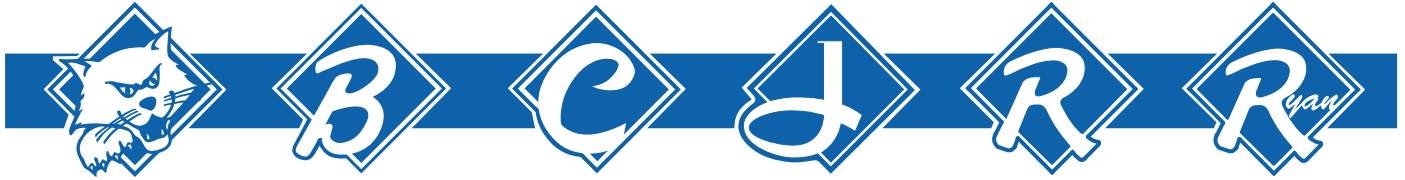
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