



Parts and Maintenance Manual

JACOBSEN® G-Plex III

Series: DP - Engine type: Kubota D722

Product code: USAD001

Series: DN - Engine type: Briggs & Stratton 350447

Product code: USAG001



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.



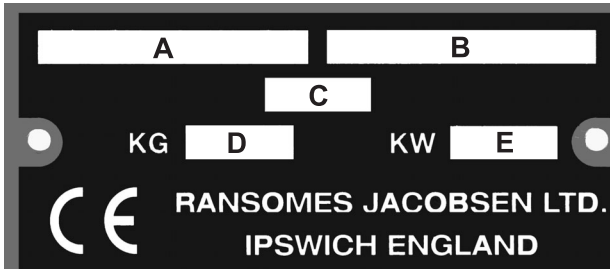
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PARTS LIST



2.1 PRODUCT IDENTIFICATION



- A Machine Name
- B Serial Number
- C Year of Manufacture
- D Machine Weight
- E Engine Power

2.2 Spares Stocking Guide

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

Service Parts			
Part No	Description	Part No.	Description
842514	Spark Plug	840160	Diesel, Engine Oil Filter
842511	Gasoline, Engine Oil Filter	840161	Diesel, Fuel Filter, Secondary
842512	Gasoline, Engine Fuel Filter	825619	Diesel, Engine Fuel Filter, Primary
842507	Gasoline, Air Cleaner Element	0840352	Diesel, Air Cleaner Element
842506	Gasoline, Air Pre - Cleaner Element	840162	Diesel, Fan Belt
892010	Height of Cut Gauge	2700345	Touch up Paint, Jacobsen Orange, 0.5 litre
A828912	Ignition Switch	2700351	Touch up Paint, Jacobsen Orange, 0.95 litre
4136798	Hydraulic Filter	814294	Touch up Paint, Black, 0.5 litre

Service Support Material			
Part No	Description	Part No.	Description
97898-03980	Diesel Engine Parts Manual	24562G	Machine Safety and Operators Manual GB-E
	Diesel Engine Operators Manual		
	Diesel Engine Service Manual		
MS2263-5C-8/2002	Gasoline Engine Parts Manual		
275368-9/02	Gasoline Engine Operators Manual		
	Gasoline Engine Service Manual		

2.3 HOW TO USE THE PARTS MANUAL**ITEM NUMBER**

Each part which is identified in the illustrations has an item number. Parts which do not have an item number may not be readily identified in the illustration but are usually closely associated with the immediately adjacent part.

ASSEMBLIES

A complete assembly, e.g. a wheel motor or hydraulic motor or roll assembly, is listed as a complete item with subsequent individual components listed separately.

The assembly is listed under it's part number with component parts being listed offset to the right, e.g:-

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
4295	MBG2504	BRACKET	1	
4296	MBG3848	LATCH	2	
4298	450865	SCREW, M8 x 20, SCKT CSK HD	2	
4300	450378	NUT, M8 NYLOC	2	
4301	WI001	Set Of Wheels	1	
4301.1	008162130	• Wheel & Hub Assy	1	(Rear)
4301.2	008170390	• • Tyre	1	
4301.3	008161830	• • Rim	1	
4301.4	008169140	• • Hub Assy.	1	
4301.5	008169150	• • Cap	1	
4301.6	002993010	• • Lubricator	1	
4301.7	008161990	• Wheel & Tyre	2	(Front)
4301.8	008170780	• • Tyre	2	
4301.9	008161250	• • Rim	2	
4302	001341110	Wheel Nut	12	

It may not be possible to illustrate every item. With certain items purchased from outside suppliers some component parts may not be available from Ransomes and may need to be specially ordered from the supplier.

QUANTITIES

Quantities shown are for one assembly or sub-assembly.

USING THE PARTS LIST

Determine the function and application of the part required. Turn to the main index page and select the appropriate section. Locate the part on the illustration and parts list and read off the quantity from the appropriate MODEL column.

NUMERICAL INDEX

This is a summary of all part numbers used in the manual arranged in numerical sequence and showing the page and item number under which the parts appear.

ORDERING OF SPARE PARTS

When ordering replacement parts, it is most important to quote the SERIAL NUMBER of the machine, PART NUMBER, DESCRIPTION and QUANTITY required.

Any arbitrary modifications carried out on this machine may relieve the manufacturer of liability for any resulting damage or injury.

ABBREVIATIONS

N/A Not Available

AR As Required



This safety symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury, carefully read the message that follows, and inform other operators.

3.1 OPERATING INSTRUCTIONS

- Ensure that the instructions in this book are read and fully understood.
- No person should be allowed to operate this machine unless they are fully acquainted with all the controls and the safety procedures.
- Never allow children or people unfamiliar with these instructions to use this machine. Local regulations may restrict the age of the operator.

3.2 SAFETY SIGNS

- It is essential all safety labels are kept legible, if they are missing or illegible they must be replaced. If any part of the machine is replaced and it originally carried a safety label, a new label must be affixed to the replacement part. New safety labels are obtainable from Ransomes dealers.

3.3 STARTING THE ENGINE

- Before starting the engine check that the brakes are applied, drives are in neutral, guards are in position and intact, and bystanders are clear of the machine.
- Do not run the engine in a building without adequate ventilation.

3.4 DRIVING THE MACHINE

- Before moving the machine, check to ensure that all parts are in good working order, paying particular attention to brakes, tyres, steering and the security of cutting blades.
- Replace faulty silencers, mow only in daylight or good artificial light
- Always observe the Highway Code both on and off the roads. Keep alert and aware at all times. Watch out for traffic when crossing or near roadways.
- Stop the blades rotating before crossing surfaces other than grass.

- Remember that some people are deaf or blind and that children and animals can be unpredictable.
- Keep travelling speeds low enough for an emergency stop to be effective and safe at all times, in any conditions.
- Remove or avoid obstructions in the area to be cut, thus reducing the possibility of injury to yourself and/or bystanders.
- When reversing, take special care to ensure that the area behind is clear of obstructions and/or bystanders. DO NOT carry passengers.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- When the machine is to be parked, stored or left unattended, lower the cutting means unless the transport locks are being used.
- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Check the grass catcher frequently for wear or deterioration. After striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the equipment.
- If the machine starts to vibrate abnormally, check immediately.

3.5 TRANSPORTING

- Ensure that the cutting units are securely fastened in the transport position. Do not transport with cutting mechanism rotating.
- Drive the machine with due consideration of road and surface conditions, inclines and local undulations.
- Sudden decelerating or braking can cause the rear wheels to lift.
- Remember that the stability of the rear of the machine is reduced as the fuel is used.

3.6 LEAVING THE DRIVING POSITION

- Park the machine on level ground.
- Before leaving the driving position, stop the engine and make sure all moving parts are stationary. Apply brakes and disengage all drives. Remove the starter key.

3.7 SLOPES

TAKE EXTRA CARE WHEN WORKING ON SLOPES

- Local undulations and sinkage will change the general slope. Avoid ground conditions which can cause the machine to slide.
- Keep machine speeds low on slopes and during tight turns.
- Sudden decelerating or braking can cause the rear wheels to lift. Remember there is no such thing as a "safe" slope.
- Travel on grass slopes requires particular care.

DO NOT USE ON SLOPES GREATER THAN 15°

IMPORTANT: When working on any slope set the weight transfer, if fitted to its maximum (+) setting.

3.8 BLOCKED CUTTING CYLINDERS

- Stop the engine and make sure all moving parts are stationary.
- Apply brakes and disengage all drives.
- Release blockages with care. Keep all parts of the body away from the cutting edge. Beware of energy in the drive which can cause rotation when the blockage is released.
- Keep other people away from the cutting units as rotation of one cylinder can cause the others to rotate.

3.9 ADJUSTMENTS, LUBRICATION AND MAINTENANCE

- Stop the engine and make sure all moving parts are stationary.
- Apply brakes and disengage all drives.
- Read all the appropriate servicing instructions.
- Use only the replacement parts supplied by the original manufacturer.
- When adjusting the cutting cylinders take care not to get hands and feet trapped when rotating cylinders.
- Make sure that other people are not touching any cutting units, as rotation of one cylinder can cause the others to rotate.

- To reduce the fire hazard, keep the engine, silencer and battery compartments free of grass, leaves or excessive grease.
- Replace worn or damaged parts for safety.
- When working underneath lifted parts or machines, make sure adequate support is provided.
- Do not dismantle the machine without releasing or restraining forces which can cause parts to move suddenly.
- Do not alter engine speed above maximum quoted in Engine Specification. Do not change the engine governor settings or overspeed the engine. Operating the engine at excessive speed may increase the hazard of personal injury.
- When refuelling, STOP THE ENGINE, DO NOT SMOKE. Add fuel before starting the engine, never add fuel while the engine is running.
- Use a funnel when pouring fuel from a can into the tank.
- Do not fill the fuel tank beyond the bottom of the filler neck.
- Replace all fuel tank and container caps securely.
- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only and do not smoke while refuelling.
- If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapours have dissipated.
- Allow the engine to cool before storing in any enclosure.
- Never store the equipment with fuel in the tank inside a building where fumes may reach an open flame or spark.
- If the fuel tank has to be drained, this should be done outdoors.
- Do not spill fuel onto hot components.
- When servicing batteries, DO NOT SMOKE, and keep naked lights away.
- Do not place any metal objects across the terminals.



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.

IMPORTANT: Transport speed is for highway use only. Never select transport speed on grass areas or uneven or unsurfaced roads or tracks.

The operating Instructions for the Cutting Units are contained in a separate Publication .

 WARNING

Hydraulic Fluid escaping under pressure can penetrate skin and do serious damage. Immediate medical assistance must be sought.

 WARNING

California Proposition 65
Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

 WARNING

Batteries produce explosive gases and contain corrosive acid and supply levels of electrical current high enough to cause burns.

 WARNING

DO NOT USE ON SLOPES GREATER THAN 15°

 WARNING

Before releasing transport latches it is important that all cutting units are fully raised.

1. Park the machine on level ground.
2. With the engine running at operating speed raise the cutting units to their maximum position by operating lift levers whilst seated in the driving position.
3. Disengage drives, stop the engine and make sure all moving parts are stationary. Apply brakes and remove the starter key.
4. transport latches can now be released.

 WARNING

Battery posts, terminals and related accessories contain lead and lead compounds.

WASH HANDS AFTER HANDLING

GB

4.1 ENGINE SPECIFICATION

TYPE:TYPE: Kubota 15.5KW @ 3600 RPM,
3 cylinder Diesels engine, 4
stroke, water cooled, 719cc
with 12V electric start.

Model: D722-E

Maximum Speed: 3400 RPM (No load)

Idle Speed: 1500 RPM

Oil Sump Capacity: 3.2 litres

Firing Order: 1, 3, 4, 2.

Fuel: No. 2-D Diesel fuel (ASTM D975)

Brakes, Service: Positive hydrostatic braking.

Parking: 152 mm Caliper Disk

Capacities:

Cooling System: 3.8 litres

Fuel Tank: 31 litres

Hydraulic Tank: 18.2 litres

Total System 25.7 litres

Battery: 12 volt, Type 093

Alternator Diesel 40amp

Gasoline 15amp

4.1.1 ENGINE SPECIFICATION

TYPE:TYPE: Briggs & Stratton 13.5KW @
3600 RPM, V twin gasoline
engine, 4 stroke, air cooled,
719cc with 12V electric start.

Model: Vanguard 350447 Type 1294

Maximum Speed: 3400 RPM (No load)

Idle Speed: 1500 RPM

Oil Sump Capacity: 1.4 litres

Fuel: Unleaded Gasoline Minimum 85
octane

4.3 CUTTING UNIT

Type: Three 559mm wide steerable
floating head.

Reel: 127mm diameter, 7 / 9 / 11
knife.

Rolls: Smooth rear roll, smooth or
grooved front/rear rolls optional.

Bedknife to reel
adjustment: Opposed set screw.

Height of cut
adjustment: Micro-adjusters on front roll.

height of cut: 2.5mm to 16mm Standard blade
2mm to 16mm Tournament
blade.

4.2 MACHINE SPECIFICATION

Frame construction: Heavy duty fabricated steel
chassis.

Transmission: Variable displacement
hydrostatic pump with high
speed low torque wheel motors.

Cutting unit drive: Direct drive hydrostatic and reel
drive pumps, bi-directional
hydraulic gear motor with reel
control valve and backlap control
valve.

Speeds:

Cutting: 6 km/h

Transport: 12 kp/h

Reverse: 3 kp/h

Steering: Rear Wheel Steering. Power
Steering, 2.5 turns lock to lock
330mm dia. Steering Wheel

Ground pressure: 1.0 kg/cm

4.4 DIMENSIONS

Width of cut: 1.57 metres

Overall width with reels: 1.9 metres

Overall height: 1.3 metres

Overall length with reels: 2.1 metres

Overall length with catchers: 2.5 metres

Overall weight of machine
With Reels

Diesel: 630kg

Gasoline: 574kg

Without Reels

Diesel: 535kg

Gasoline: 478kg

Wheel Track: 1.2 metres

Wheel Base: 1.3 metres

TYRE PRESSURES

Product	Front Wheel				Rear Wheel			
	Tyre Size	Tyre Type	Tyre Pressure		Tyre Size	Tyre Type	Tyre Pressure	
G-Plex III	20 x 10.00 - 120	Titan Smooth 2pr	9 psi	0.62 bar	20 x 10.00 - 120	Titan Smooth 2pr	9 psi	0.62 bar



4.5 VIBRATION LEVEL

The machine was tested for whole body and hand/arm vibration levels. The operator was seated in the normal operating position with both hands on the steering mechanism. The engine was running and the cutting device was rotating with the machine stationary.

Standard ISO 5349: 1986 **Mechanical vibration. Guidelines for the measurement and the assessment of human exposure to hand-transmitted vibration.**

Machine Name Series## Hand / Arm Acceleration level	Max LH or RH Accelerations m/s ²		
	X Aeq	Y Aeq	Z Aeq
	3.2	2.44	1.26
Dominant Value	3.2		

Standard ISO 2631-1: 1985 **Evaluation of human exposure to whole body vibration -- Part 1: General requirements.**

Machine Name Series## Whole Body Acceleration level	Floor Location Accelerations m/s ²			Seat Location Accelerations m/s ²		
	x	y	z	x	y	z
Mean	0.0234	0.0499	0.109	0.0050	0.0255	0.0161

4.6 SLOPES

DO NOT USE ON SLOPES GREATER THAN 15°
The slope 15° was calculated using static stability measurements according to the requirements of EN 836.

4.7 RECOMMENDED LUBRICANTS

Engine oil:

Diesel: Should be to MIL-L-2104C
or to A.P.I. Classification CD
Gasoline: A.P.I. Classification SE/SF

TEMPERATURE	OIL VISCOSITY
ABOVE 4°C (39°F)	SAE30
BELOW 4°C (39°F)	SAE5W-30 or 10W-30

Hydraulic Oil: GreensCare68

Grease: Lithium based.

4.8 CUTTING PERFORMANCE

Cutting Frequency

7-knife reel - 7.4mm at 6km/h
9-knife reel - 5.7mm at 6km/h
11-knife reel - 4.7mm at 6km/h


4.9 TORQUES

CORSE PITCH METRIC THREADS					
Dia (mm)	GRADE 4.6	GRADE 4.8	GRADE 8.8	GRADE 10.9	GRADE 12.9
	(Nm)	(Nm)	(Nm)	(Nm)	(Nm)
6	5	6	12	17	21
8	11	15	30	42	51
10	22	30	59	84	100
12	39	52	104	146	175
14	62	82	165	232	278
16	96	129	257	362	434
20	188	251	502	706	847
22	256	341	683	960	1152
24	325	434	868	1220	1464
27	476	635	1269	1785	2142
30	646	862	1723	2424	2908
33	822	1097	2193	3084	3701
36	1129	1506	3012	4235	5082

FINE PITCH METRIC THREADS					
Dia (mm)	GRADE 4.6	GRADE 4.8	GRADE 8.8	GRADE 10.9	GRADE 12.9
	(Nm)	(Nm)	(Nm)	(Nm)	(Nm)
6	0	0	0	0	0
8	12	16	32	45	54
10	24	31	63	88	106
12	42	57	113	159	191
14	67	90	179	252	302
16	103	137	274	385	462
20	209	279	557	783	940
22	281	375	750	1055	1266
24	354	472	944	1327	1593
27	514	686	1371	1928	2314
30	715	954	1908	2683	3219
33	964	1286	2572	3616	4340
36	1196	1594	3189	4484	5381

UNC THREADS					
Dia (in)	GRADE A	GRADE S	GRADE T	GRADE V	GRADE X
	(lb. ft)	(lb. ft)	(lb. ft)	(lb. ft)	(lb. ft)
1/4	3.4	9.2	9.9	12.6	15.2
5/16	7	18.9	20.4	25.8	31.3
3/8	12.3	33.5	36.1	45.8	55.5
7/16	19.7	53.5	57.8	73.2	88.7
1/2	30.1	81.6	88	112	135
9/16	43.3	117	127	161	195
5/8	59.8	162	175	222	269
3/4	106	288	310	394	477
7/8	171	464	500	635	769
1	256	695	749	950	1152
1 1/8	363	984	1062	1347	1632
1 1/4	511	1387	1497	1899	2300
1 3/8	670	1820	1963	2490	3017
1 1/2	889	2414	2605	3303	4002

UNF THREADS					
Dia (in)	GRADE A	GRADE S	GRADE T	GRADE V	GRADE X
	(lb. ft)	(lb. ft)	(lb. ft)	(lb. ft)	(lb. ft)
1/4	3.8	10.4	11.3	14.3	17.3
5/16	7.7	20.8	22.5	28.5	34.5
3/8	13.9	37.7	40.7	51.6	62.5
7/16	21.9	59.5	64.2	81.4	98.6
1/2	33.7	91.5	98.7	125	152
9/16	48.2	131	141	179	217
5/8	67.4	183	197	250	303
3/4	118	319	344	437	529
7/8	188	509	550	697	845
1	279	757	817	1036	1255
1 1/8	405	1099	1186	1504	1823
1 1/4	563	1529	1650	2093	2535
1 3/8	759	2061	2224	2821	3418
1 1/2	996	2703	2917	3699	4482



5.1 LUBRICATION AND MAINTENANCE CHART

Black bullet points are operator checks and white bullet points are workshop maintenance procedures											
	First 5 - 8 hours	Daily	Every 25 hours	First 50 hours	Weekly or Every 50 hours	Every 100 hours	Every 200 hours	Every 250 hours	Every 400 hours	Every 600 hours or End of Season	Section
ENGINE											
Check Oil Level		●									5.4 / 5.5
Change Oil Diesel Engine							○				5.5
Change Oil Gasoline Engine	○				○						5.3
Check Air Filter Element Diesel Engine		●									
Check & Clean Air Filter Element Gasoline Engine			●								
Replace Air Filter Element									○		5.8 / 5.9
Replace Oil Filter Diesel Engine							○				5.6
Replace Oil Filter Gasoline Engine						○					5.4
Replace plastic inline fuel filter - Diesel							○				5.10
Check fuel filter for water contamination - Diesel						○					5.7
Replace fuel filter Element - Diesel									○		5.7
Replace fuel filter - Gasoline										○	5.10
Check & Adjust Valve Clearance Gasoline Engine								○			See Engine Manual
Clean Cooling Fins						●					
MACHINE											
Check Tyre Pressure		●									
Check for Hydraulic Leaks		●									
Check Bedknife & Reel Blades		●									
Check Reel to Bedknife Adjustment		●									
Check Hydraulic Fluid Level		●									
Check Oil Cooler Screen		●									
Clean Oil Cooler Fins		●									
Check Engine Bay for Debris					○						
Check Nuts & Bolts for Tightness					○						
Check Hydraulic Fittings for Tightness					○						
Check Battery Condition					○						
Check Belt Tension					○						5.11
Change Hydraulic Filter				○				○			5.12
Change Hydraulic Oil								○			5.13
Check Brake Linings										○	5.14
Lubricate the following with a Lithium based grease											
Cutting Unit Reel Bearings					○						
Cutting Unit Front & Rear Rollers					○						
Cutting Head Pivot					○						
Cutting Head Mount					○						
Lift Arm Pivot					○						
Mow / Speed Control Pivot					○						
Mow / Lift Pedal Pivot					○						
Steering Cylinder Pivots					○						

5.2 ENGINE ACCESS

The rear section of the unit can be raised for better access to the engine. Loosen the two handknobs above the rear fork. Raise the fuel tank frame. Support it by pivoting the rod beneath the fuel tank down and securing it in the cup next to the fork pivot (See Fig. 5.2).

**WARNING**

DO NOT remove the fuel tank cap while the tank is in the raised position.



Figure 5.2
Rear Section of Unit Raised

5.3 ENGINE OIL - GASOLINE

Change engine oil.

- 1 After first warming up the engine remove the drain plug (Fig. 5.3.2) and drain all the oil from the crankcase sump.
- 2 Clean plug and replace.
- 3 Remove the filler cap (Fig. 5.3.1) and refill with fresh oil up to the maximum level on the dipstick (Fig. 5.3.1). See Specification for oil grade and amount.
- 4 Replace filler cap securely.

NOTICE

- DO NOT overfill. Engine overheating and damage may result.

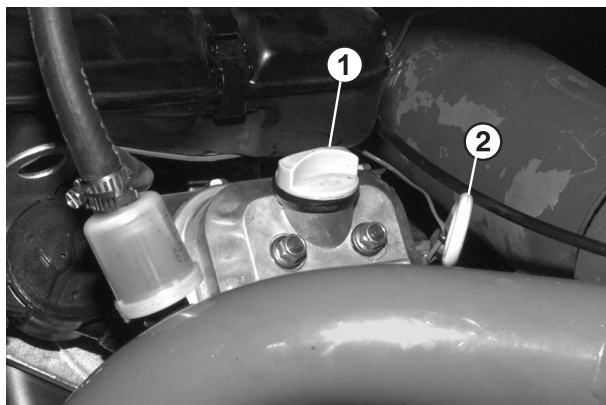


Figure 5.3.2
1. Filler Cap
2. Dipstick

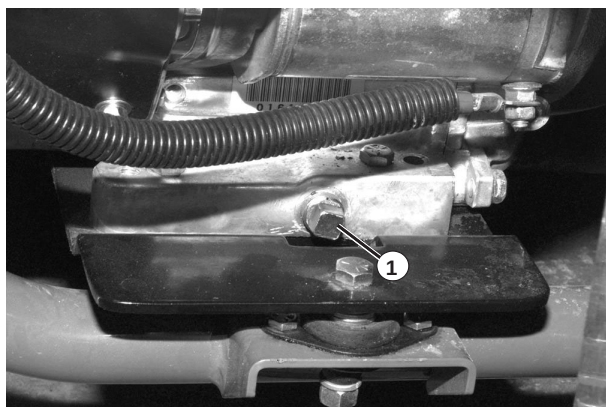


Figure 5.3.2
1. Drain Plug

5.4 ENGINE OIL FILTER- GASOLINE

Change Engine Oil Filter

1. Drain engine oil and remove oil filter.
2. Before installing new filter, lightly oil filter gasket with fresh, clean oil.
3. Screw filter on by hand until gasket contacts filter head. Tighten 1/2 to 3/4 turn more.
4. Add fresh oil. Fill to FULL line on dipstick.
5. Start and run engine at idle and check for leaks.
6. Stop engine, leave for 15 minutes, re-check oil level. Add oil if required.

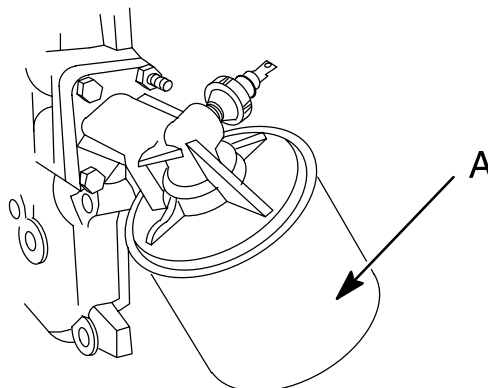


Fig. 5.4.1
A. Oil Filter

5.5 ENGINE OIL - DIESEL

Change engine oil.

1. After first warming up the engine remove the drain plug and drain all the oil from the crankcase sump.
2. Clean plug and replace.
3. Remove the filler cap (Fig. 5.5.2) and refill with fresh oil up to the maximum level on the dipstick (Fig. 5.5.1). See Specification for oil grade and amount.
4. Replace filler cap securely.

NOTICE

- DO NOT overfill. Engine overheating and damage may result.

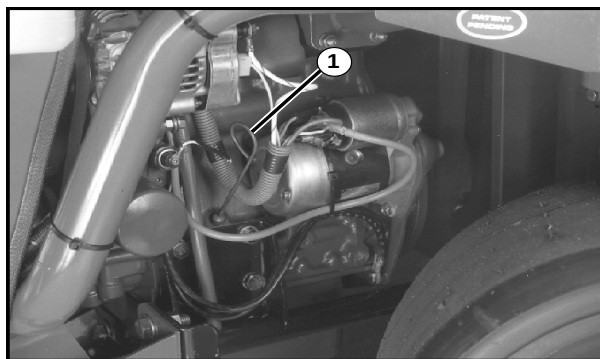


Figure 5.5.1
1. Dipstick

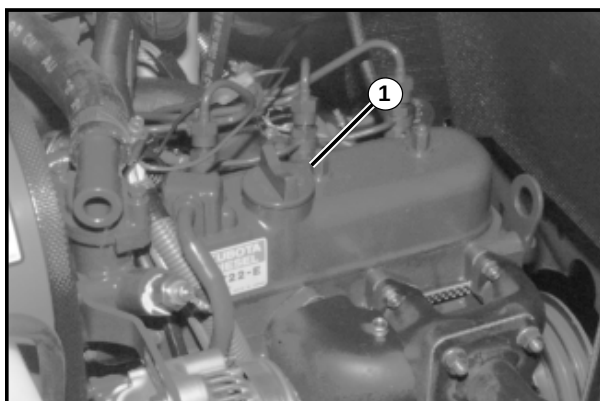


Figure 5.5.2
1. Oil Filler Port

5.6 ENGINE OIL FILTER - DIESEL

Change oil filter cartridge

- (a) Remove cartridge from engine by unscrewing and discard.
- (b) Clean area on crankcase.
- (c) Apply a thin film of oil to the gasket and screw in the new cartridge by hand, securely.
- (d) After replacing the new cartridge the engine oil level will drop, run the engine for a short period and after ensuring that no leaks appear, top up with fresh oil to the level indicated on the dipstick.

NOTICE

- **DO NOT** use a wrench when installing the filter, **use hand pressure ONLY.**

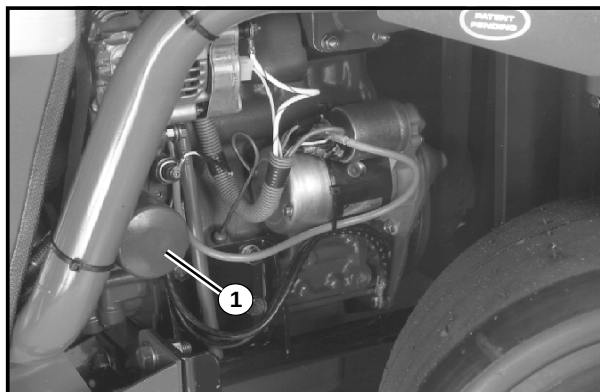


Figure. 5.6.1
1. Oil Filter Canister

5.7 ENGINE FUEL FILTER - DIESEL

Replace fuel filter element

- (a) Unscrew locking ring and remove filter element (2 Fig. 5.7.1) and discard.
- (b) Place new filter element in filter bowl locating on spring. Position bowl against gasket in filter head and fit locking ring.
- (c) Vent the fuel system.

In-line fuel filter

- (a) Release clamp bands either side of in-line filter and remove fuel pipes.
- (b) Fit new in-line filter to fuel pipes, noting direction of flow and replace clamp bands.

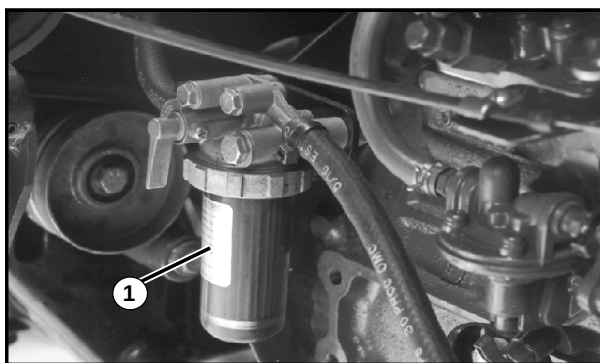


Figure. 5.7.1
1. Fuel Filter Element



5.8 AIR FILTER - DIESEL

Clean Air Filter Element

1. As the element (A) of the air cleaner employed on this engine is a dry type, never apply oil to it.
2. Open the evacuator valve once a week under ordinary conditions-or daily when used in a dusty place-to get rid of large particles of dust and dirt.
3. Avoid touching the element except when cleaning.
4. When dry dust adheres to the element, blow compressed air from the inside turning the element. Pressure of compressed air must be under 7kgf/cm² (100psi)
5. When carbon or oil adheres to the element, soak the element in detergent for 30 minutes then wash it several times in water, rinse with clean water and dry it naturally. After the element is fully dried, inspect inside of the element with a light and check if it is damaged or not. (referring to the instructions on the label attached to the element.)

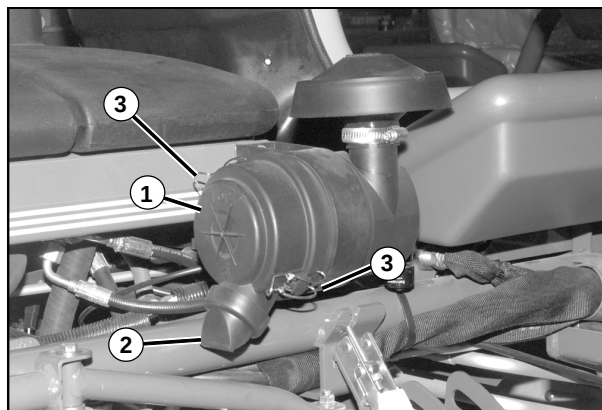


Fig. 5.8.1

1. Cover, 2. Evacuator valve
3. Clips

5.9 AIR FILTER - GASOLINE

NOTICE

DO NOT use bent or dented air cleaner housing. DO NOT use bent or dented air cleaner elements.

IMPORTANT!

WE RECOMMEND THAT THE FILTER ELEMENT BE REPLACED BEFORE ENGINE PERFORMANCE IS AFFECTED. THIS MAY OCCUR AT 250 HOURS OF SERVICE UNDER VERY DUSTY CONDITIONS OR AT 500 HOURS UNDER NORMAL OPERATING CONDITIONS. WE DO NOT RECOMMEND CLEANING THE FILTER ELEMENT BECAUSE OF THE POSSIBILITY OF DAMAGING IT.

CHECKING THE ELEMENT

To check for damage, pin holes, etc. shine a light source into the end of the element. If light CANNOT be seen through the paper, a new element should be installed. Likewise, if pinholes of bright light appear in the paper, the element should be replaced (See Fig. 5.9.1).

Pre-Cleaner

To clean the pre cleaner, separate it from the cartridge and wash in liquid detergent and water. Squeeze dry in a clean cloth.



DO NOT use pressurized air or solvents to clean cartridge. Pressurized air can damage cartridge; solvents will dissolve cartridge.

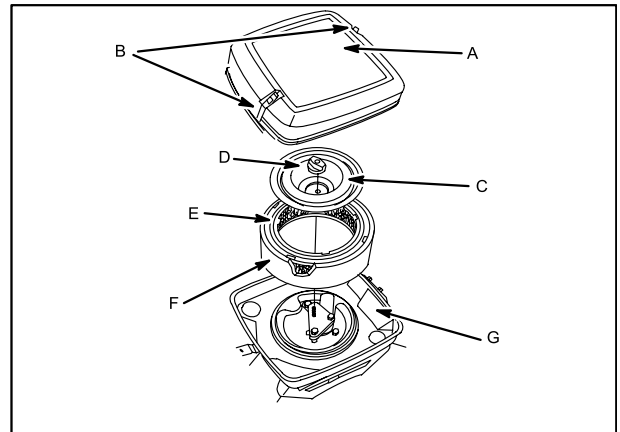


Fig. 5.9.1

A. Cover, B. Clips, C. Plate, D. Knob
E. Cartridge, F. Foam Pre-Cleaner, G. Body

Removing / Installing Air Cleaner

1. Unhook clips on both sides of cover and remove cover.
2. Remove knob and plate. Carefully remove air cleaner assembly to prevent debris from entering carburettor.
3. Reassemble clean (or new) pre-cleaner on clean (or new) cartridge.
4. Reinstall air cleaner assembly, plate and knob.
5. Replace cover and reattach clips to body.

5.10 ENGINE FUEL FILTER - GASOLINE

Replace fuel filter

- (a) Release clamp bands either side of in-line filter and remove fuel pipes.
- (b) Fit new in-line filter to fuel pipes and replace clamp bands.

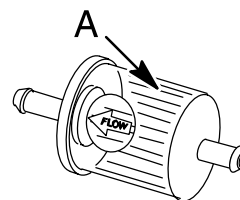


Fig. 5.10.1
A. Fuel filter

5.11 FAN BELT TENSION - DIESEL

The tension on the belt is correct when the belt can be depressed 7 to 9mm (0.28 - 0.35in) under a load of 10kgf (22lbs) midway between the crankshaft pulley and the alternator pulley.

To adjust:

- (a) Release the two bolts (A Fig. 5.11.1) holding the alternator and adjust alternator until the tension is correct.
- (b) Re-tighten the bolts securely after adjusting.

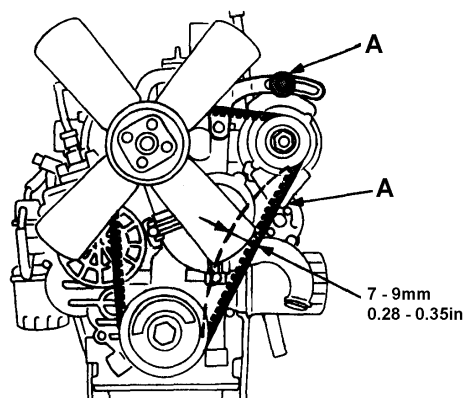


Figure 5.11.1

5.12 HYDRAULIC OIL FILTER

The hydraulic oil filter **MUST** be replaced when:

- 250 hours of operation occurs.
- Yearly.
- After a major component failure.
- If you notice the presence of water or foam in the oil.
- A rancid odor is detected (indicating excessive heat).

Always replace the hydraulic filters when changing oil.

When replacing the hydraulic oil filter, apply a light film of clean oil to the rubber seal. Screw filter on until the seal contacts the oil filter base, then tighten 1/2 turn more.

NOTE: DO NOT use wrench when replacing the filter, use hand pressure ONLY.

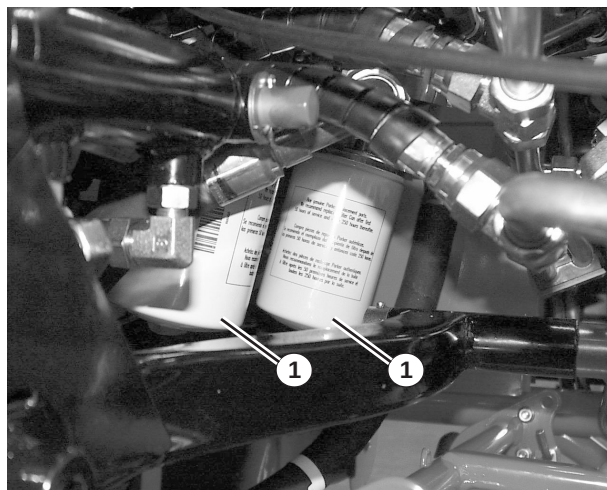


Figure 5.12.1

5.13 HYDRAULIC OIL

The hydraulic oil **MUST** be drained and replaced when:

- 250 hours of operation occurs.
- Yearly.
- After a major component failure.
- If you notice the presence of water or foam in the oil.
- A rancid odor is detected (indicating excessive heat).

Always replace the hydraulic filters when changing oil.

To drain the hydraulic oil, remove the hydraulic oil filters.

Once the hydraulic oil is replaced, the air must be purged from the system. Operate the unit for five minutes to stabilize the oil level.

Once the air is purged and the oil level is stabilized, fill the tank to its proper level.

The hydraulic fluid reservoir is filled at the factory with biodegradable hydraulic oil.

If desired, mineral oil may be used in place of the biodegradable hydraulic oil.

NOTE: Use of mineral oil will compromise all biodegradable properties of the biodegradable hydraulic oil.

When changing to mineral oil, drain the reservoir and replace the hydraulic oil filters. The system does not have to be flushed out when changing over. As a mineral oil alternative to the biodegradable hydraulic oil, a straight-viscosity ISO 68 type fluid is recommended for higher temperature environment.

5.14 BRAKES

Place the front axle on axle stands and remove the front wheels. Inspect the Discs and pads for wear and replace if necessary. Remove all debris from around the brake assembly and ensure the caliper is free to float

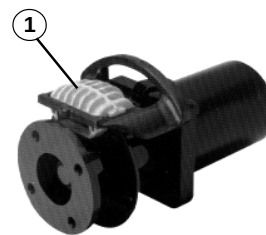


Figure. 5.14.1
1. Caliper



5.15 BATTERY

**WARNING**

UNTRAINED/UNAUTHORIZED persons should NEVER attempt to service or recharge the battery in this unit.

**WARNING**

Battery electrolyte is an acidic solution and should be handled with care. If electrolyte is splashed on any part of the body, immediately flush the exposed area with liberal amounts of water and obtain medical aid immediately.

**WARNING**

Battery posts, terminals and related accessories contain lead and lead compounds.

WASH HANDS AFTER HANDLING

NOTICE

- Keep top of battery clean and free of corrosion by washing with a solution of baking soda and water OR ammonia and water. Rinse with clean water. Batteries with heavy corrosion should be removed and cleaned with solution.
- Battery cables should be disconnected before using a "Battery Charger."

5.16 REAR SWING OUT ARM

NOTE: The rear swing out arm is to allow you easy access to the rear cutting head. The cutting heads must be in the raised position. **DO NOT** swing the arm out with the cutting heads in the lowered position.

1. The grass catcher **MUST BE** removed before you swing the arm out.
2. Release the draw latch (See Fig. 5.16.1).
3. Pull the handle and swing the rear arm and cutting head out.
4. After you are properly seated in the operator's seat, restart the unit and lower the cutting heads.
5. Shut off the unit and remove the rear cutting head for service.
6. After you have completed your servicing, secure the cutting head to the rear arm.
7. After you are properly seated in the operator's seat, restart the unit and raise the cutting heads.
8. Shut off the unit and swing the rear arm back under the unit and secure the arm with the draw latch (See Fig. 5.16.1).
9. Install the grass catcher.

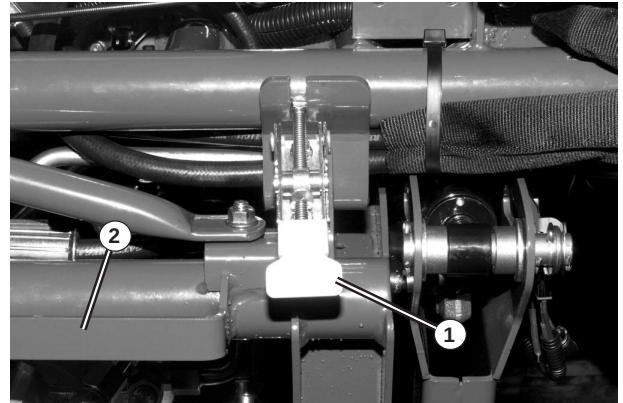


Figure 5.16.1
1. Draw Latch
2. Handle

**WARNING**

To avoid the possibility of serious injury, **ALWAYS** be properly seated in the operator's seat while the engine is running.

NEVER attempt to drive the machine while the rear arm is not secured by the draw latch. Driving the machine with the rear arm out, will result in damage to the machine and/or cause serious injury or death of the operator and/or bystanders.

6.1 LEVELING LINKAGE FOR THE FRONT CUTTING HEADS

**WARNING**

This procedure must be performed as specified and only by properly trained service personnel.

During this entire procedure the reel enable switch must be in the off position. Turning on the reel enable switch will result in damage to the unit and/or serious personal injury or death to you the operator or bystanders

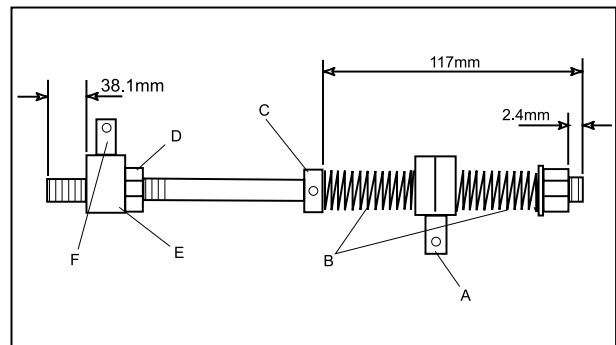


Fig. 6.1.1

- A. Connector to main frame (DO NOT adjust)
- B. Springs
- C. Lock collar
- D. Jam nut
- E. Adjusting connector
- F. Adjusting connector secures to lift arm

NOTICE

- The dimensions in figure 6.1.1 are factory preset and the leveling linkage should not need adjusting. After some time the linkage may require some adjusting. If it is required, only make adjustments on the adjusting connector (E Fig. 6.1.1).
- 1. With the unit on a level surface (recommend concrete surface), place cardboard underneath all three of the cutting heads.
- 2. An additional person is needed to stand 3 meters in front of the unit to check on how level the front heads are when lowering. Lower the cutting heads and ensure the entire width of the front heads are parallel with the level surface as the heads touch the cardboard.
- 3. If they do not touch evenly, make an adjustment using the adjusting connector. Repeat procedure as needed until the two front heads touch evenly on the level surface.

6.2 MOW/TRANSPORT SPEED CONTROL

When cutting heads are raised completely, the wheel drive speed range is 0 – 7.5 mph (0 – 12 Km/hr). Speed is controlled by use of the direction/speed control pedal as described in control pedals section.

When cutting heads are lowered, the forward movement of the direction/speed control pedal is restricted by the automatic mow speed control linkage (the bellcrank stop screw contacts the foot pedal tab which rotates the pedal upward. This in turn reduces the ground speed of the unit for mowing). The mow speed range is 0 – 3.8 mph (0 – 6.1 Km/hr).

ADJUSTING MOW SPEED

To determine mow speed, run a time check on how fast the unit travels in a distance of 50' (15.24 M). Prepare a level surface with enough room to start and end beyond the 50' marks.

Place a stake in the ground where you want to begin timing the unit. Measure and place another stake at a distance of 50' (15.24 M). Lower the cutting heads and press the direction pedal forward so the unit is traveling at full throttle (the cutting heads should be in the neutral position when timing the unit).

Begin timing the unit when the center of the front tire aligns with the first stake. Stop timing when the center of the front tire aligns with the stake placed at 50' (15.24 M). Estimated time for 3.8 mph (6.1 Km/hr) will be approximately 8.8 to 9.2 seconds. If there is a significant difference in the times listed above, you can adjust the mow speed as follows.

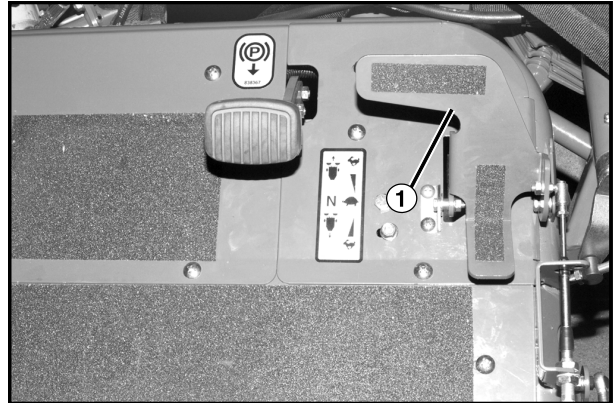


Figure 6.2.1
1. Direction/Speed Pedal

6.3 SPEED CONTROL PEDAL

**WARNING**

This procedure **MUST** be performed as specified and only by properly trained service personnel.

Adjusting the speed control screw out (increasing length) will reduce the mow speed. Adjusting the speed control screw in (shortening length) will increase mow speed.

Determine which direction to adjust the mow speed screw. Loosen the locking nut and adjust speed control screw, snug up the locking nut and run the time test again, repeat as necessary. When correct mow speed has been obtained, tighten the locking nut (See Fig. 6.3.1).

TO SET BELLCRANK STOP SCREW:

NOTICE

The bellcrank stop screw has been set at the factory and should **NOT** require adjustment. If stop screw is loosened or removed, it **MUST** be properly installed and adjusted prior to unit operation.

Remove the screws securing the center foot panel and remove panel (this will allow access to the lockout link angle).

Loosen the nut on the bellcrank stop screw just enough to allow the screw to be slid to the left of the slot (See Fig. 6.3.3).

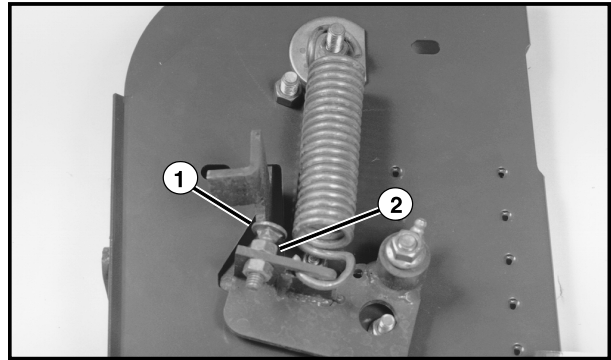


Figure 6.3.1

1. Mow Speed Adjustment Screw
2. Locking Nut

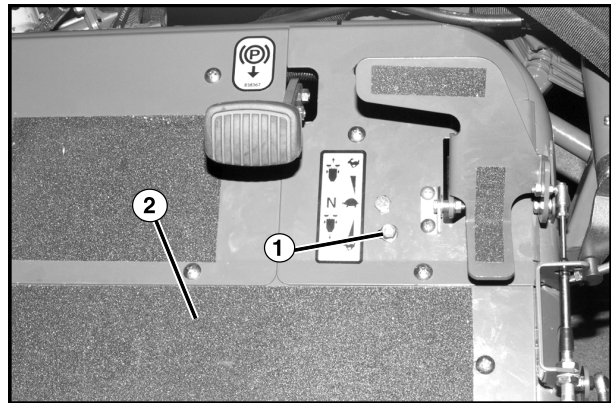


Figure 6.3.2

1. Bellcrank Stop Screw
2. Center Foot Panel

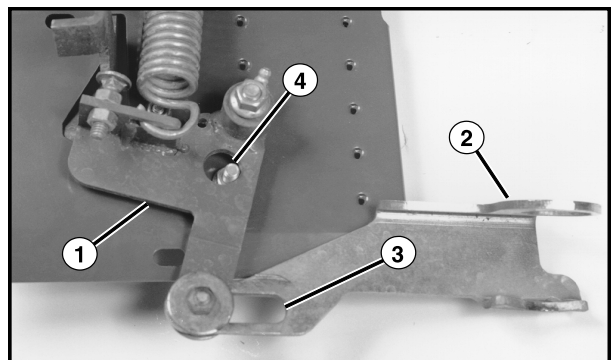


Figure 6.3.3

1. Bellcrank
2. Lockout Link Angle
3. Lockout Link slot
4. Bellcrank Stop Screw

Rotate bellcrank clockwise (as viewed from above) and hold the bushing on the lockout link angle to the left end of the lockout link slot (See Fig. 6.3.4).

Slide the bellcrank stop screw to the left of the slot located in the foot panel (See Fig. 6.3.2) making sure the bellcrank contacts the stop screw.

With the screw held tightly against the bellcrank, tighten the stop screw nut.

Install the center foot panel.

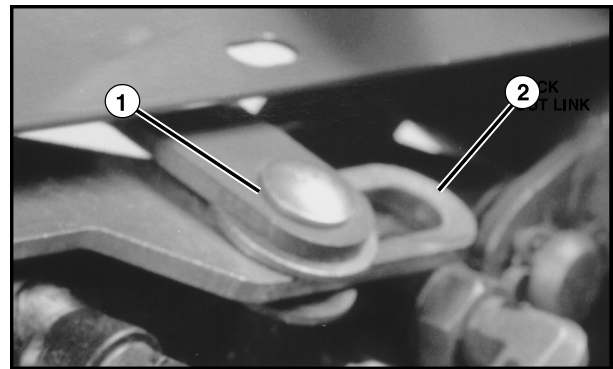


Figure 6.3.4
Position Bushing to Left of Slot



6.4 BLEEDING THE FUEL SYSTEM - DIESEL

**WARNING**

This procedure **MUST** be performed as specified and only by properly trained service personnel.

The fuel system must be bled when:

- Starting the engine for the first time.
- The fuel tank becomes completely empty.
- The engine has not been used for an extended period of time.
- The fuel filter and/or fuel lines have been loosened, removed or replaced.

1. Fill the fuel tank.
2. Open the air vent on top of the fuel filter (See Fig. 6.5.1).
3. Without preheating the glow plugs, turn the ignition switch to START to operate the fuel pump. Allow the starter to run the pump until a steady stream of fuel is coming out of the fuel filter air vent. Stop the starter and close the air vent.
4. Open the air vent on top of the injection pump, open air vent only when engine is NOT running (See Fig. 6.5.2).
5. Without preheating the glow plugs, turn the ignition switch to START to operate the fuel pump. Allow the starter to run the pump until a steady stream of fuel is coming out of the injection pump air vent. Stop the starter and close the air vent.

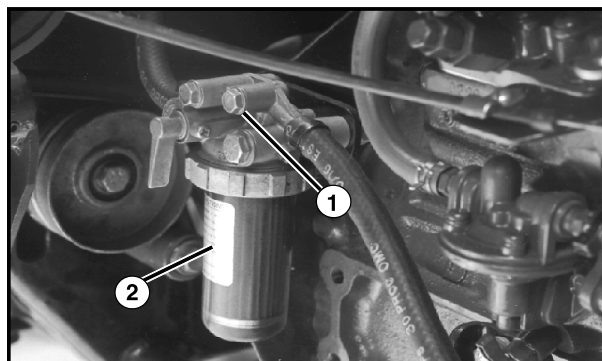


Figure 6.5.1
1. Fuel Filter Air Vent
2. Secondary fuel filter

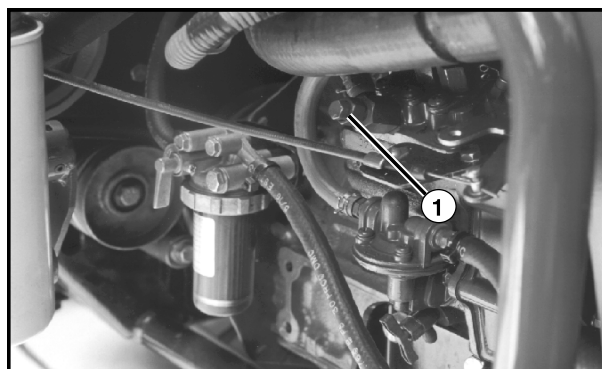


Figure 6.5.2
1. Injection Pump Air Vent

**WARNING**

- Catch fuel and dispose of properly.
- To avoid a fire hazard, clean up any spilled fuel.

6.5 BACKLAPPING

Backlapping on a regular basis will help keep the cutting edges sharp and extend the life of the reel. Backlapping may be performed on one cutting head only, two heads, or all three heads simultaneously. If backlapping one or two cutting heads is desired, back off slightly on the bedknife-to-reel clearance on the head(s) not requiring backlapping. This will eliminate contact between bedknife and reel, avoiding the possibility of damaging the reel or bedknife during the backlap process. Always make bedknife adjustments with the Engine Off.

NOTICE

- Make sure the bedknife adjustment is correct before backlapping. Refer to Bedknife Adjustment .

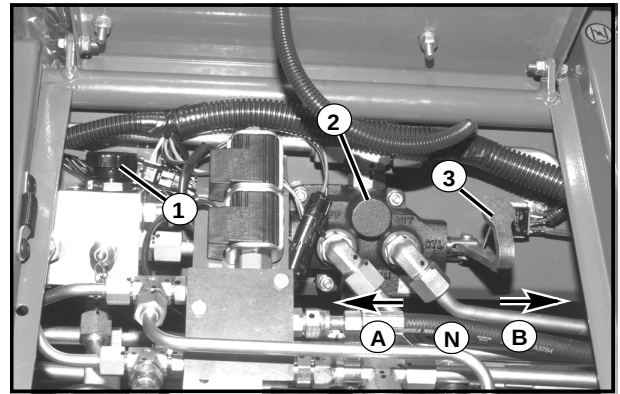


Figure 6.6.1

- 2. Backlap Valve
- 3. Reel Control Lever
- A. Mow Position
- B. Backlap Position
- N. Neutral Position

WARNING

- **ALWAYS** open the restriction valve before setting the reel control lever to **BACKLAP** position. **DO NOT** set the reel control lever to the **BACKLAP** position before opening the needle valve in the bypass circuit. This will cause the reels to start turning **IMMEDIATELY** at full speed.
- **Keep hands, feet and clothing away from all three reels whenever the reel control lever is placed in the backlap position. When backlap restriction valve is closed or being closed, all three reels will rotate in the backlap direction.**

1. Open the restriction valve on the reel valve by turning the knob counterclockwise as far as it will go (See Fig. 6.6.1).
2. Set the reel control lever to the right for the backlap position (See Fig. 6.6.1).
1. Start the engine and set the throttle to low idle. Switch the reel enable switch to the on position. Lower heads by operating the paddle or the footswitch.

2. Slowly turn the restriction valve knob clockwise until the desired reel rotation speed is attained. It should be slow enough so that the reel will not throw off the backlapping compound as it spins.
3. Apply an even coat of backlapping compound to the entire length of each blade of the reel. Use a brush with a long enough handle to keep you away from the rotating blades. For best results, use a handle length which will permit application of compound while standing in front of the unit.
4. Once all the blades on the reel are uniformly sharp, shut off the engine and switch the reel enable switch to the off position. Set the reel valve control to the mow position and close the restriction valve (all the way clockwise).

NOTICE

- To ensure proper reel rotation, make sure the restriction valve is completely closed.
5. Wash all of the backlapping compound from all of the heads. Once they are thoroughly cleaned and dry, apply a light film of oil to the cutting edges to help prevent rust.
 6. After backlapping, the bedknife adjustment should be made again.

7 TROUBLESHOOTING

JACOBSEN G-PLEX III Series: DN & DP
MAINTENANCE AND PARTS MANUAL

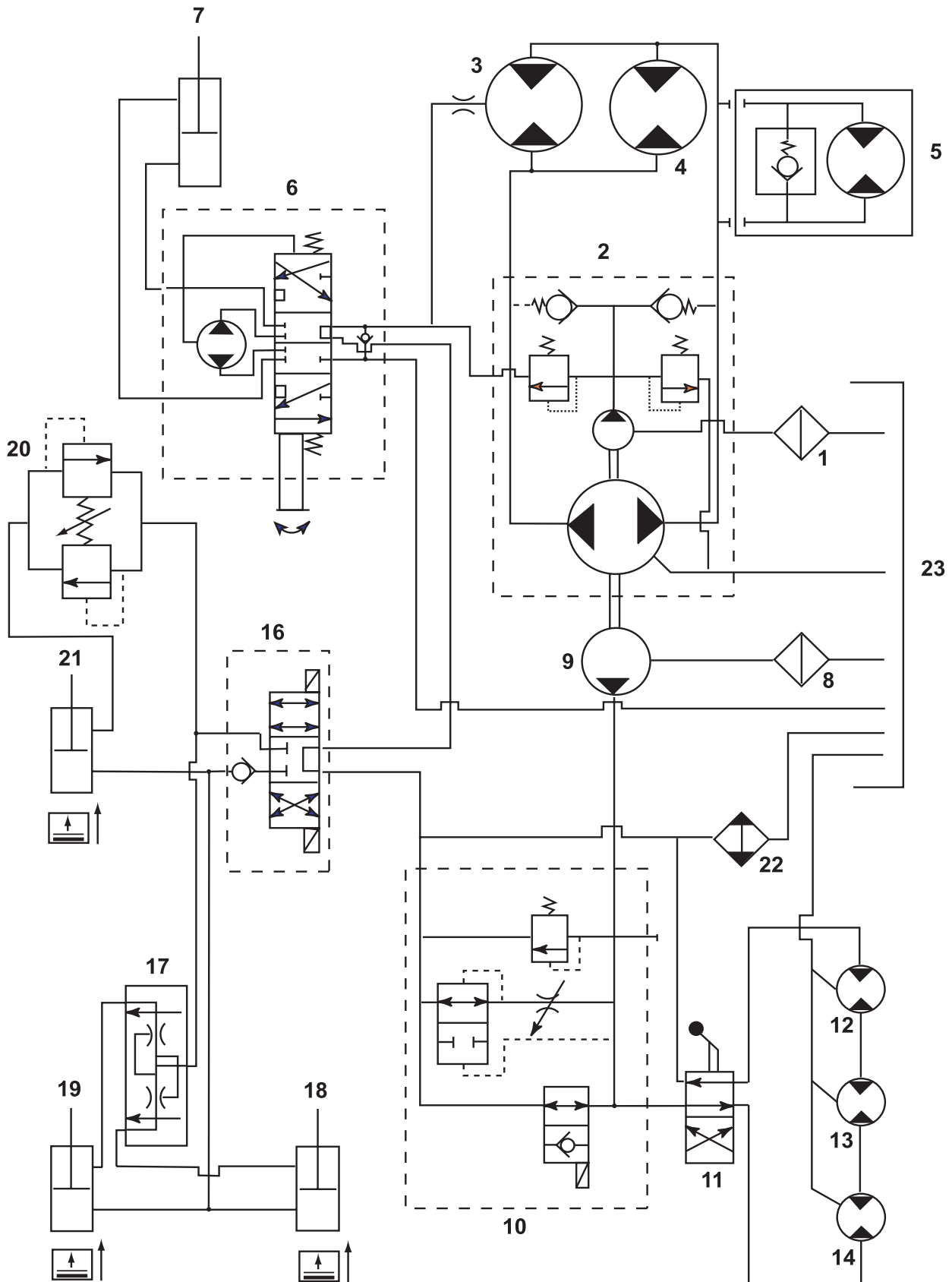
7.1 GENERAL

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

Symptoms	Possible Causes	Action	Section
Engine will not start.	1. Glow Plug has not timed out.	1. Reset ignition switch and allow glow plug to time out before cranking engine.	
	2. Battery low on charge or defective.	2. Inspect condition of battery and battery connections.	
	3. Fuel tank empty or fuel contaminated.	3. Fill tank with fresh fuel. Change filter, Drain any water from sight bowl, Bleed air from lines.	5.7
	4. Blown Fuse.	4. Replace Fuse.	
	5. Defective Starter Relay.	5. Test and replace relay if necessary.	
	6. Parking brake not applied	6. Apply parking brake	
	7. Mow engage switch set to cut.	7. Disengage dash mounted mow switch.	
Engine hard to start or runs poorly.	1. Fuel tank empty or fuel contaminated.	1. Fill tank with fresh fuel. Change filter, Drain any water from sight bowl, Bleed air from lines.	5.7
	2. Air Cleaner blocked or dirty.	2. Check air cleaner indicator and replace as necessary.	
	3. Injectors, fuel pump.	3. Consult engine manual.	
	4. Other Engine Problem	4. Consult engine trouble shooting guide.	
Engine Stops.	1. Fuel tank empty	1. Fill with fresh fuel and bleed lines	6.5
	2. Interlocks not set before leaving operators seat	2. Set mow switch to off position before leaving seat.	
Engine Overheating.	1. Coolant level low	1. Inspect and add 50/50 antifreeze solution if required.	
	2. Radiator air intake restricted	2. Clean wire mesh guard at radiator.	
	3. Waterpump/alternator belt or fan belt loose or broken.	3. Inspect waterpump/alternator belt and fan belt. Tighten if necessary.	5.11
Battery not holding charge. Battery light on.	1. Loose or corroded battery terminals.	1. Inspect terminals, clean and tighten as required.	
	2. Low electrolyte level in battery.	2. Refill battery with distilled water	5.15
	3. Alternator belt loose or broken.	3. Inspect waterpump/alternator belt. Tighten if necessary.	5.11
	4. Alternator defective.	4. See engine manual.	
Cylinders cut unevenly.	1. Cylinder to bottom blade not adjusted properly.	1. Inspect cylinder to bottom blade adjustment.	
	2. Engine speed too low.	2. Check engine speed, run engine at full throttle.	
	3. Cylinder speed not adjusted for turf conditions.	3. Adjust cylinder speed for best cut.	
	4. Cylinder direction lever set in reverse.	4. Set cylinder direction lever to forward rotation.	
	5. Ground weight incorrectly adjusted	5. Adjust ground weight control valve till correct ground is achieved.	



8.1 HYDRAULIC CIRCUIT

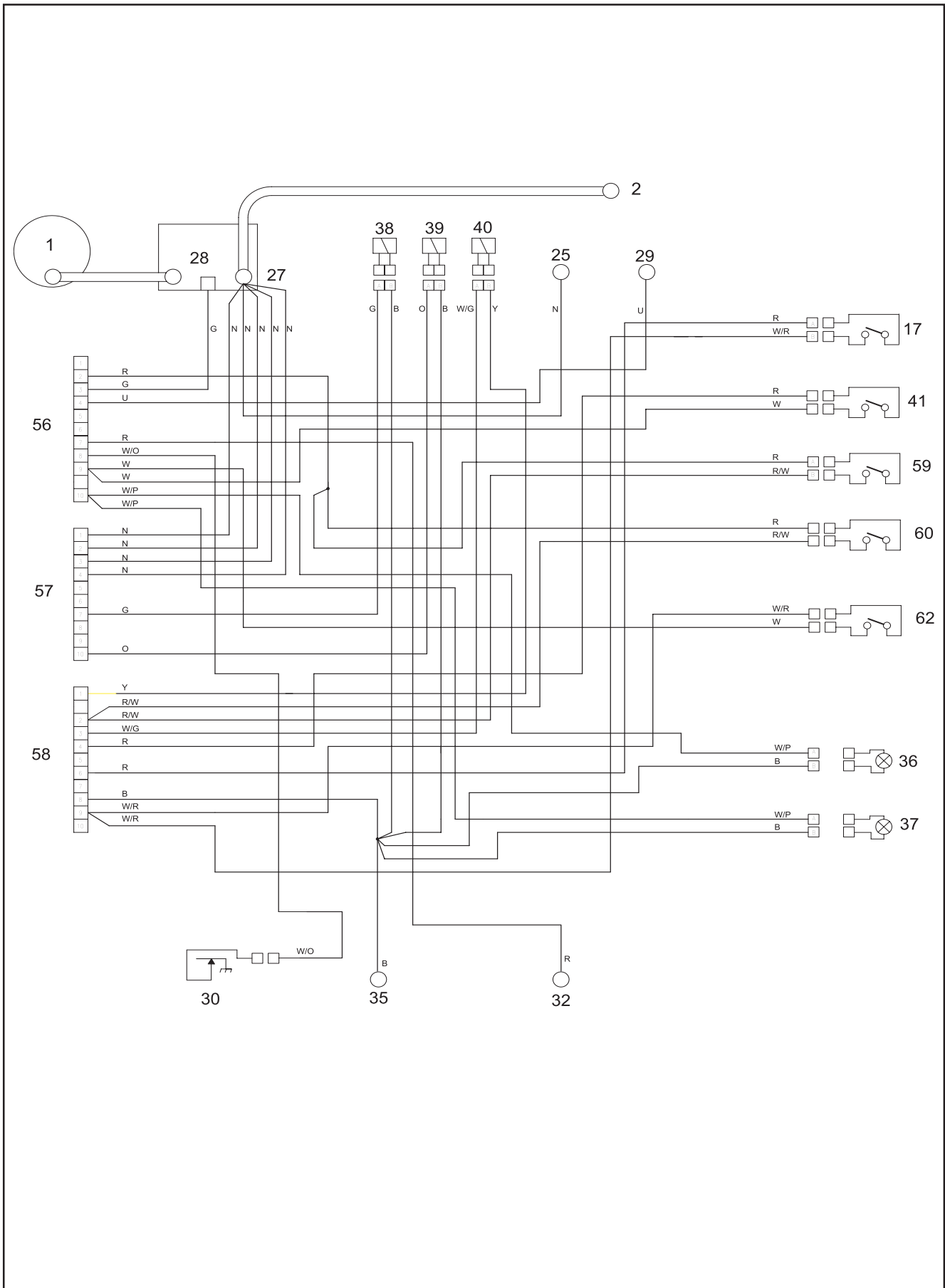


8.1 HYDRAULIC CIRCUIT

1. Inlet Filter
2. Hydrostat Pump
3. Right Hand Wheel Motor
4. Left Hand Wheel Motor
5. Three Wheel Drive Accessory
6. Power Steering Valve
7. Steering Cylinder
8. Inlet Filter
9. Reel Pump
10. Reel Drive Valve
11. Backlap Valve Accessory
12. Rear Reel Motor
13. Left Reel Motor
14. Right Wheel Motor
15. Ball Valve Accessory
16. Lift Valve
17. Divider / Combiner Valve
18. Left Lift Cylinder
19. Right Lift Cylinder
20. Sequence Valve
21. Rear Lift Cylinder
22. Oil Cooler
23. Reservoir



8.2 ELECTRICAL CIRCUIT MAIN HARNESS - GASOLINE

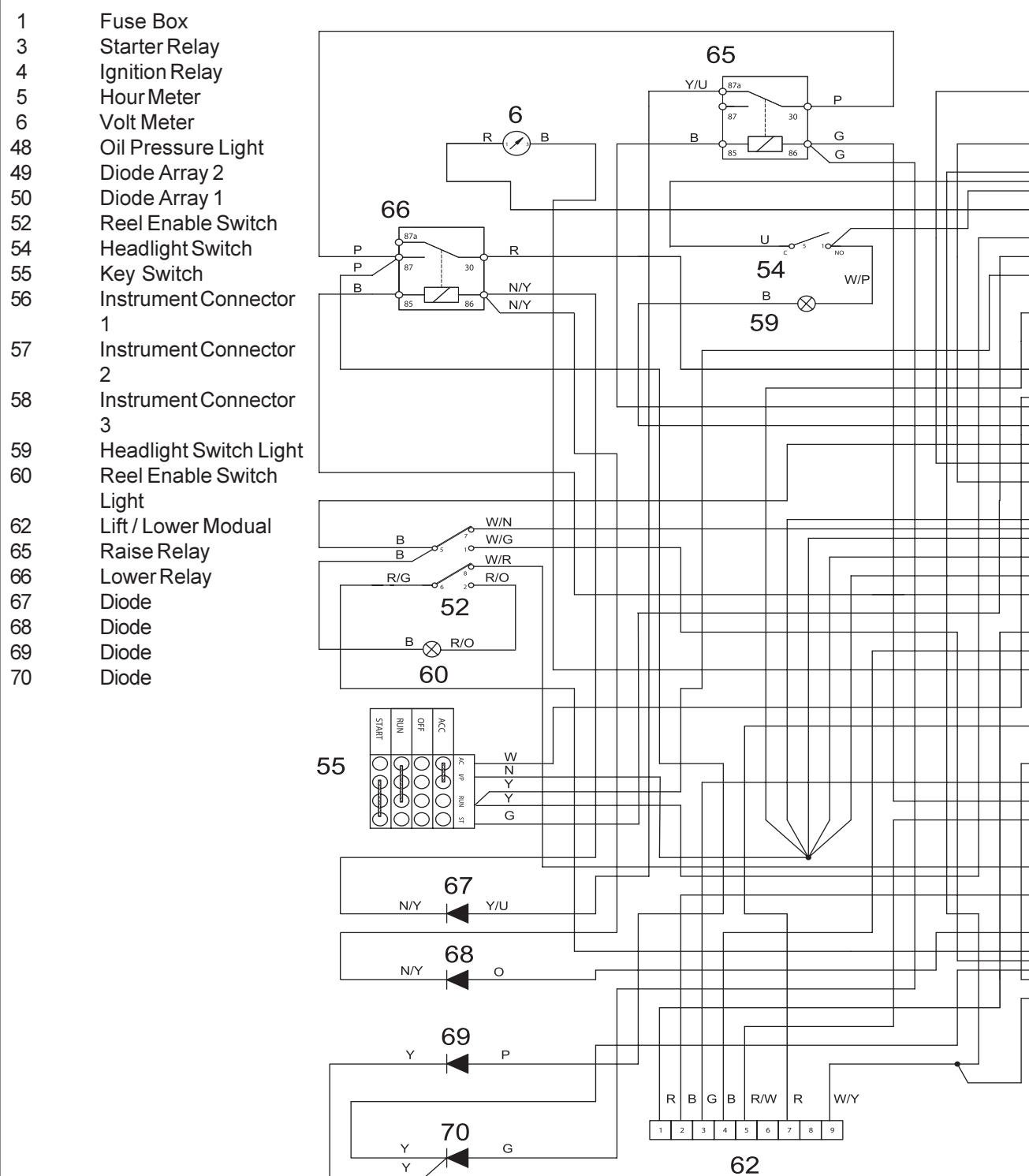


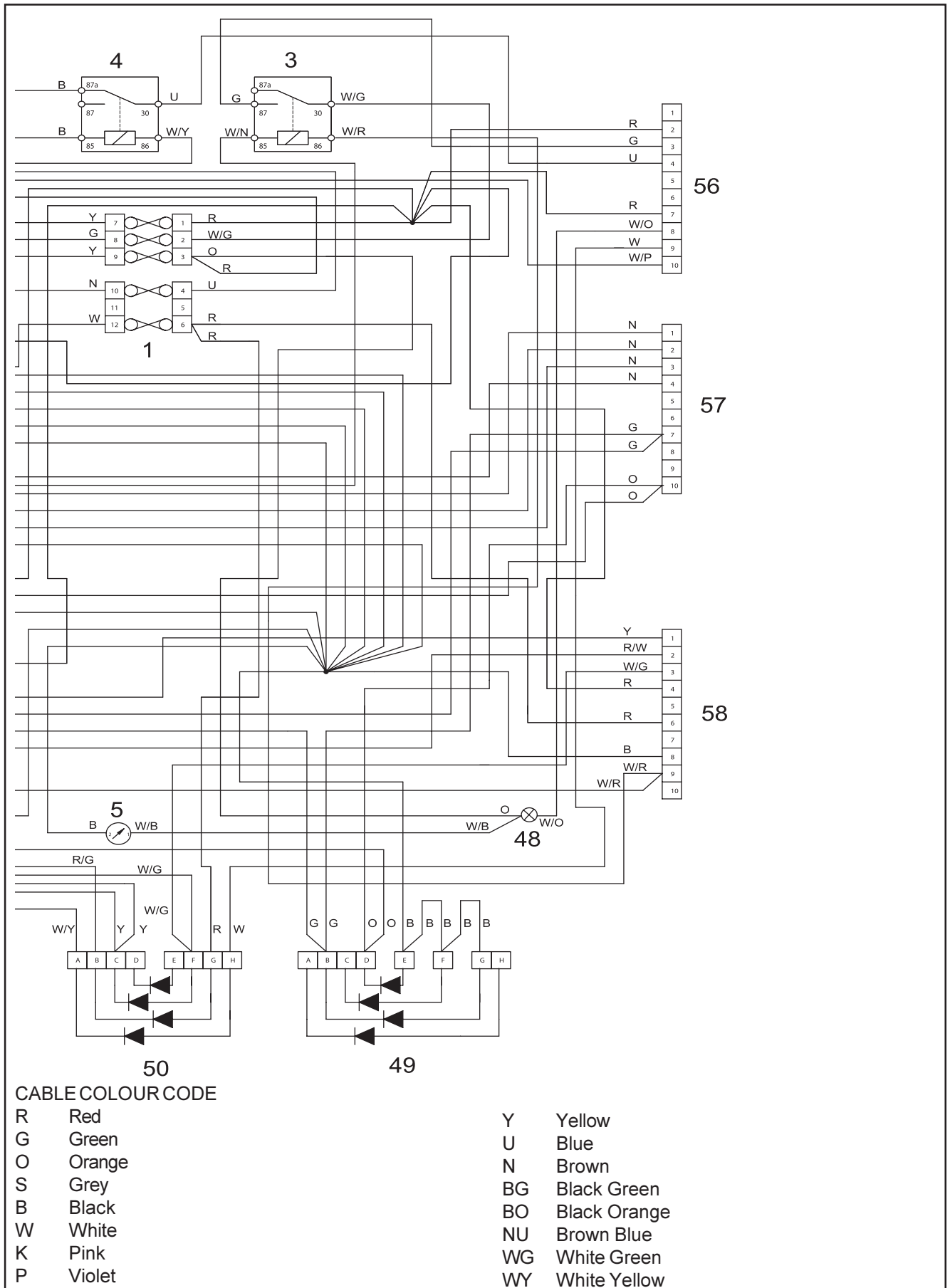
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1	Starter Motor
2	Battery +ve Terminal
17	Backlap Switch
25	Alternator
27	Starter Solenoid Batt +ve Terminal
28	Starter Solenoid
29	Engine Kill
30	Oil Pressure Sender
32	Carburetor Solenoid
35	Solenoid Ground
36	Headlight
37	Headlight
38	Raise Solenoid
39	Lower Solenoid
40	Reel Solenoid
41	Seat Switch
56	Instrument Connector 1
57	Instrument Connector 2
58	Instrument Connector 3
59	Paddle Switch
60	Foot Switch
62	Parking Brake / Neutral Switch

CABLE COLOUR CODE

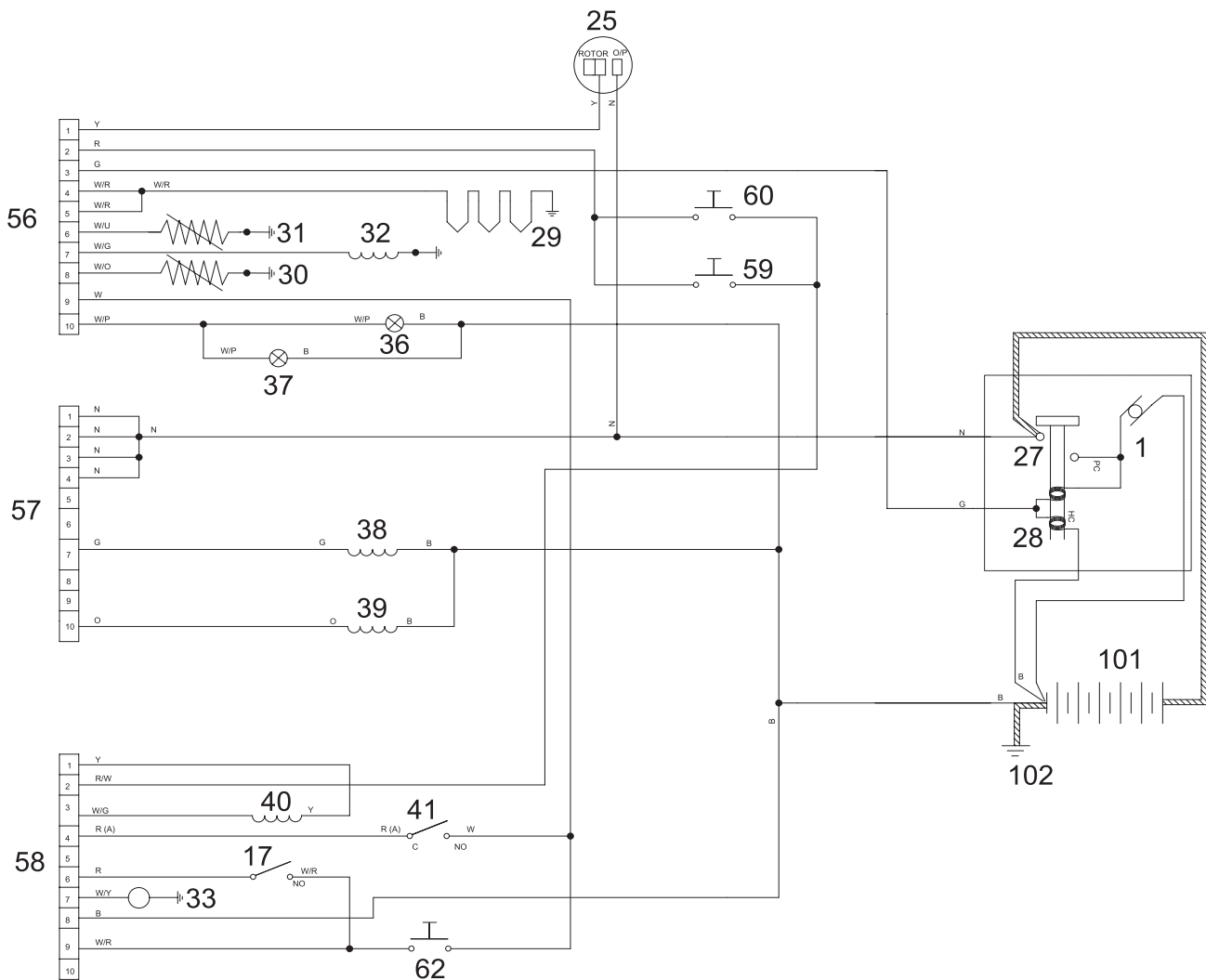
R	Red
G	Green
O	Orange
S	Grey
B	Black
W	White
K	Pink
P	Violet
Y	Yellow
U	Blue
N	Brown
BG	Black Green
BO	Black Orange
NU	Brown Blue
WG	White Green
WY	White Yellow







8.4 ELECTRICAL CIRCUIT MAIN HARNESS - DIESEL

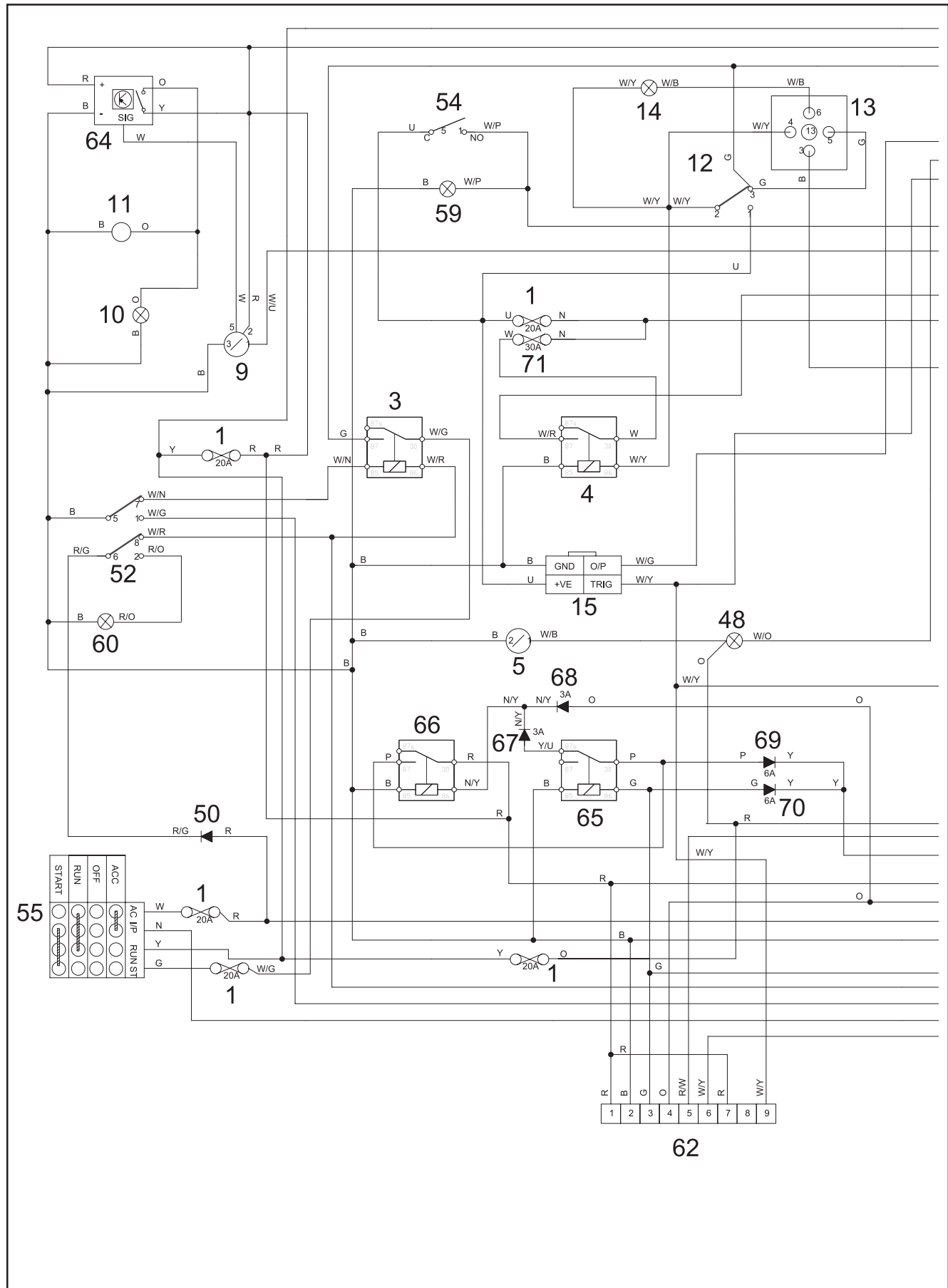


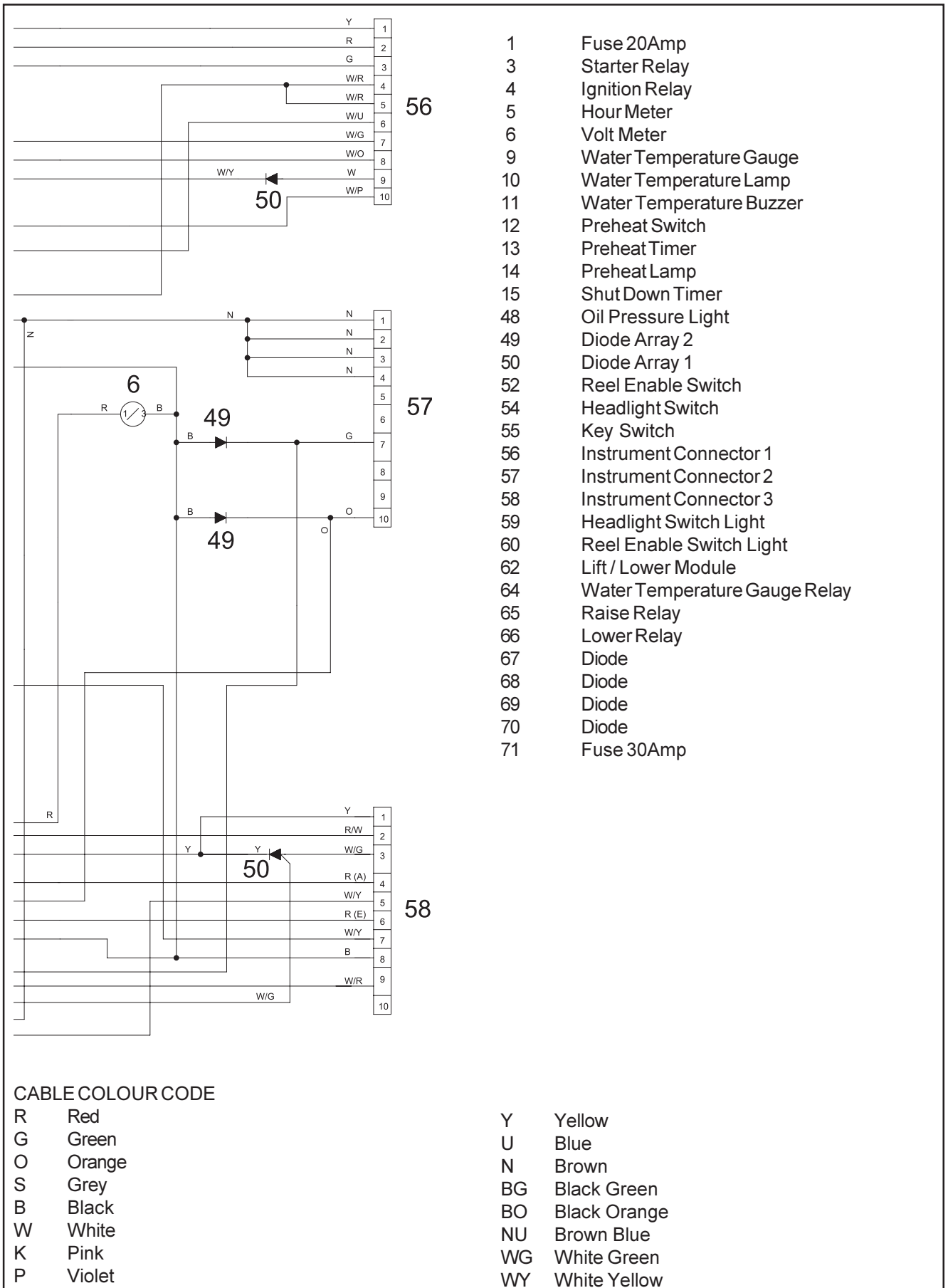


1	Starter Motor
17	Backlap Switch
25	Alternator
27	Starter Solenoid Batt +ve Terminal
28	Starter Solenoid
29	Glow Plugs
30	Oil Pressure Sender
31	Water Temperature Sender
32	Fuel Solenoid
33	Fuel Pump
36	Headlight
37	Headlight
38	Raise Solenoid
39	Lower Solenoid
40	Reel Solenoid
41	Seat Switch
56	Instrument Connector 1
57	Instrument Connector 2
58	Instrument Connector 3
59	Paddle Switch
60	Foot Switch
62	Parking Brake / Neutral Switch
101	Battery
102	Battery Ground

CABLE COLOUR CODE

R	Red
G	Green
O	Orange
S	Grey
B	Black
W	White
K	Pink
P	Violet
Y	Yellow
U	Blue
N	Brown
BG	Black Green
BO	Black Orange
NU	Brown Blue
WG	White Green
WY	White Yellow





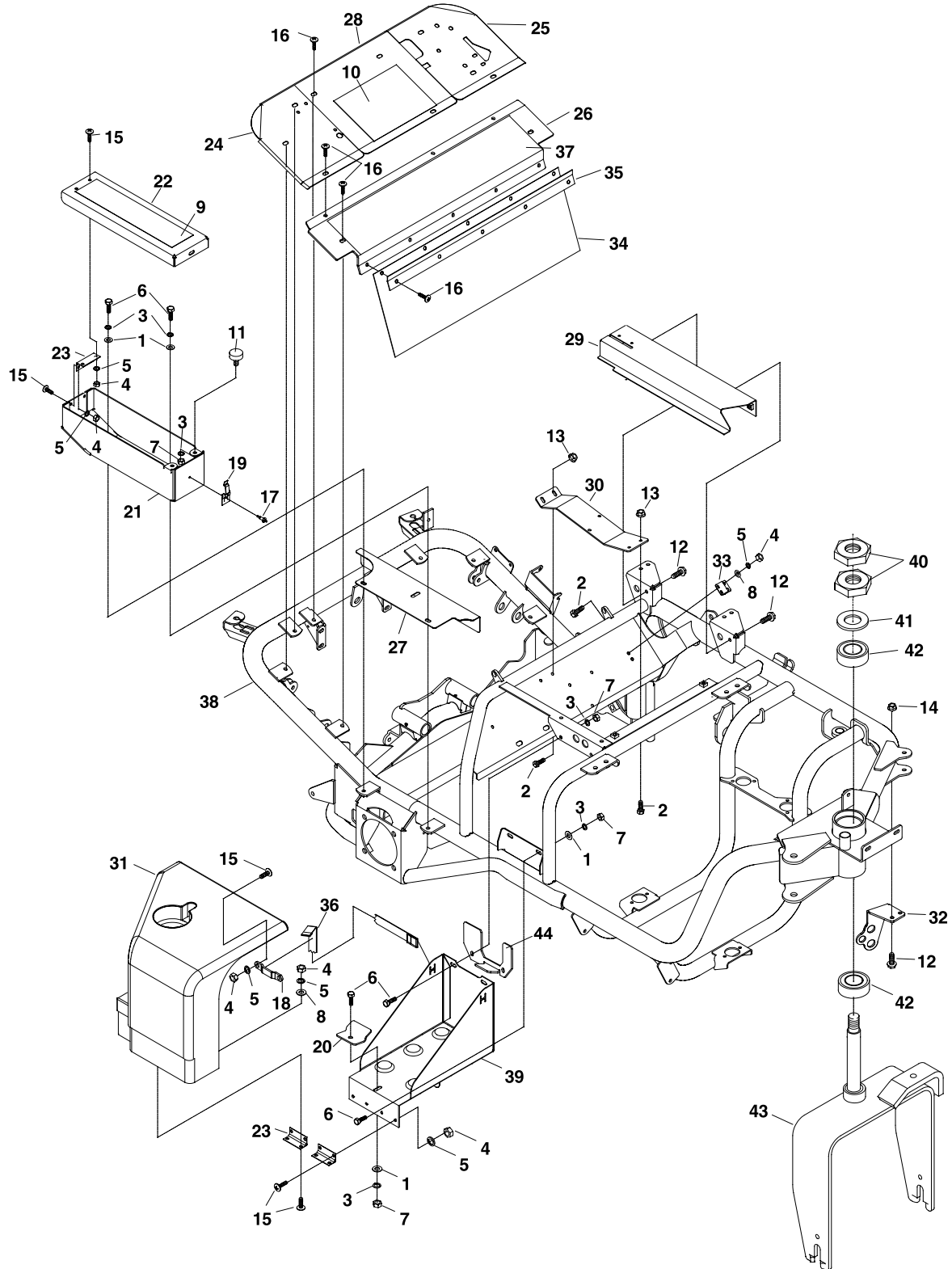


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1 CHASSIS AND COVERS



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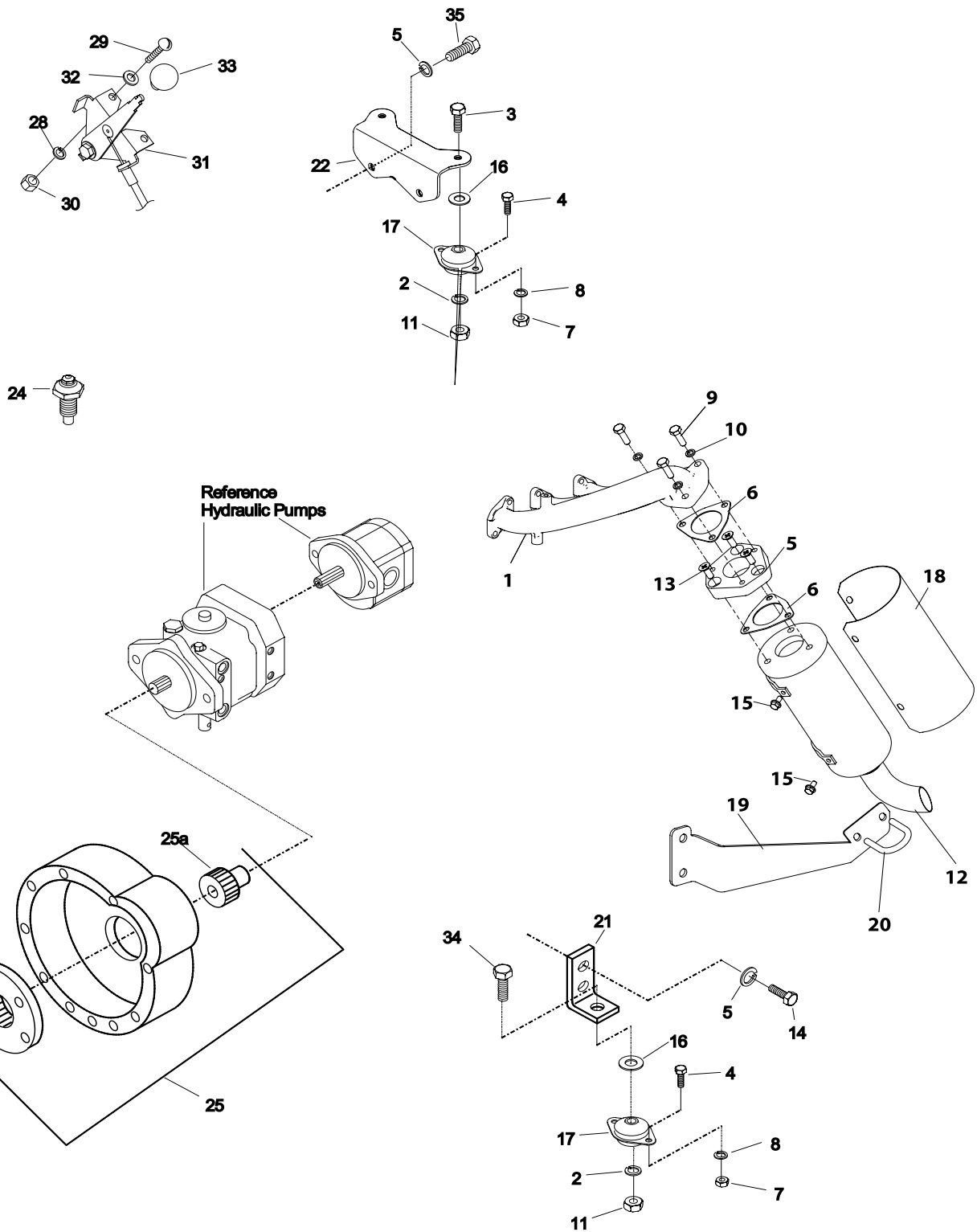
MAINTENANCE AND PARTS MANUAL

1 CHASSIS AND COVERS

LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450390	Washer M8	5	
2	456110016	Screw, 1/4-20 x 3/4"	6	
3	450411	Lockwasher M8	9	
4	450120013	Nut, 1/4-20	16	(M6 - P/N 450323)
5	450410	Lockwasher M6	16	
6	456110359	Screw, 5/16-18 x 1"	5	
6	450192	Screw, M8 x 25, Hex	2	Used battery tray
7	450120021	Nut, 5/16-18	5	
8	450389	Washer M6	6	
9	523169	Tread, pedal,	1	13 1/2" x 3" (343 x 76mm)
10	523171	Tread, pedal,	1	8 3/4" x 6" (222 x 152mm)
11	523224	Bumper, rubber	2	
12	A119003	Screw, 5/16-18 x 3/4"	4	
13	A139305	Nut, 1/4-20 flange	4	
14	A139301	Nut, 5/16-18 flange	2	
15	800019	Screw, P.T.H., 1/4-20 x 1/2"	14	(M6 - P/N 450539)
16	800177	Screw, T.H., 5/16-18 x 3/4"	16	
17	A149604	Rivet, pop,	1	
18	825824	Retainer	1	
19	835039	Fastener, snap	1	
20	4132871	Clamp, battery	1	replaces 839391
21	840170.07	Box, tool/step	1	
22	840171.07	Cover, box	1	
23	840172	Hinge, box	3	
24	MBG6052	Panel, floor, LEFT	1	
25	842880.07	Panel, floor, RIGHT	1	
26	MBG6471	Panel, foot, CENTER	1	
27	842882.06	Panel, line cover	1	
28	MBG6472	Panel, floor, CENTER	1	
29	842932.06	Panel, control	1	
30	843196.06	Bracket, lift valve	1	
31	843402.07	Cover, battery	1	
32	843404A.06	Bracket, fitting mount	1	
33	843412	Bracket, Switch mounting	1	Diesel Only
34	843886	Cover	1	
35	843887.07	Strap, cover	1	
36	844076	Strap	1	
37	844107	Tread, pedal,	1	25 1/2" x 5" (645 x 127mm)
38	893791.06	Frame, main	1	
39	894237.06	Tray, battery	1	
40	310854	Nut, jam, 1-14	2	
41	452000627	Washer, 1" i.d.	1	
42	A203607	Bearing, Ball	2	
43	892913.06	Fork	1	
44	4132872	Battery Tray Cover Stop	1	replaces MBG5930.06
*	450369	Nutsert	4	

* Not Illustrated

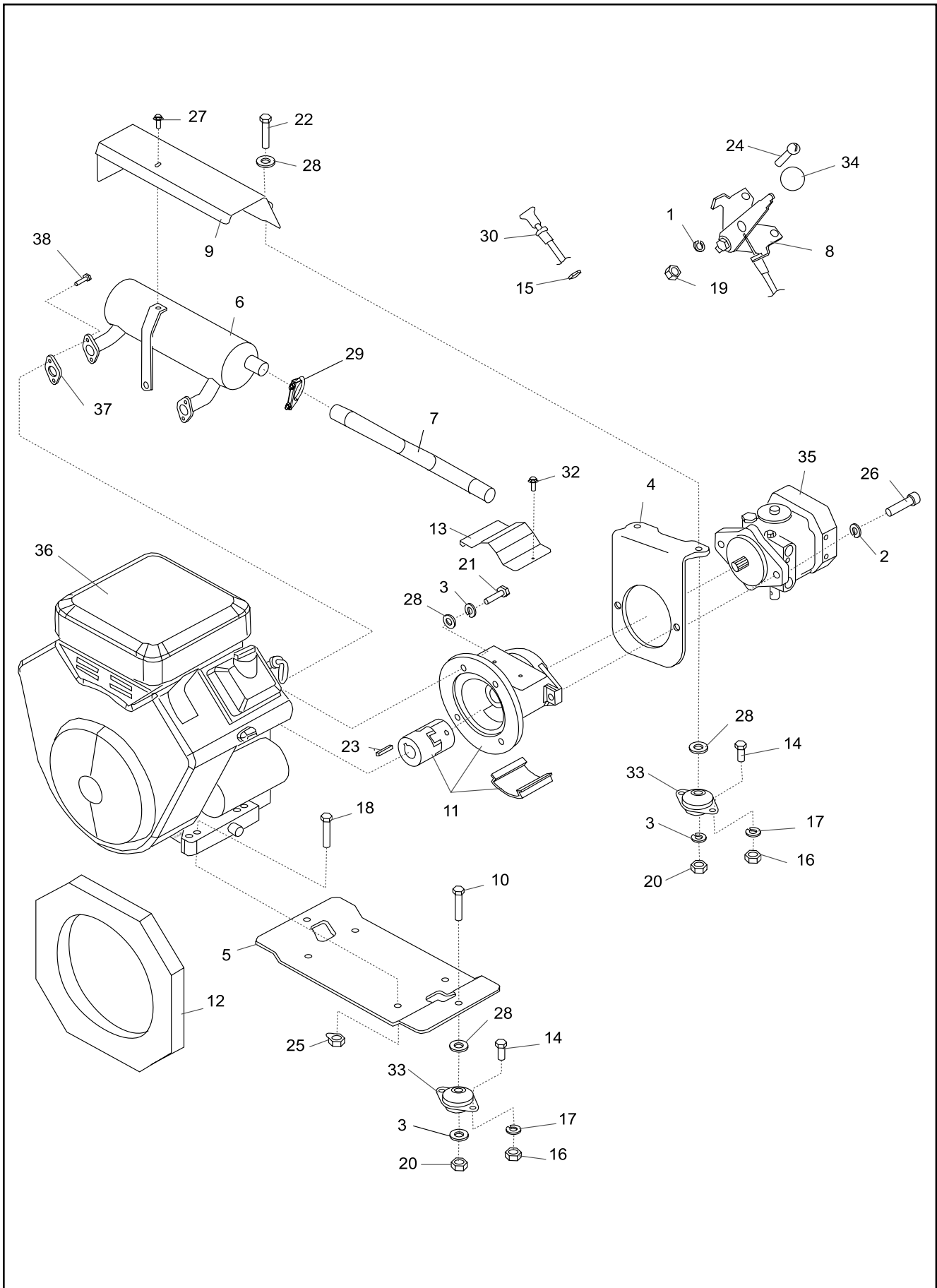


2 POWER ASSY DIESEL
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	892258	Engine	1	Kubota D772-E
*	4124180	Manifold	1	
*	4132107	Manifold Guard	1	
*	4132108	Screw M6 x 8	2	
2	452200134	Lockwasher	4	
3	A109001	Screw, 3/8-16x2	2	
4	456110016	Screw, 1/4-20 x 3/4	8	
5	4123644	Spacer	1	
6	4124496	Gasket	2	
7	450120013	Nut, 1/4-20	8	
8	452200029	Lockwasher, 1/4	8	
9	450192	Screw	3	
10	450411	Lockwasher	3	
11	450120039	Nut, 3/8-16	4	
12	4124181	Muffler	1	
13	450633	Screw	3	
14	A682055	Screw, M10 -1.25 x 30mm	4	
15	452692	Screw	4	
16	452000326	Washer, 3/8	4	
17	826218	Mount, motor	4	
18	4124175	Muffler Guard	1	
19	4123646	Muffler Bracket	1	
20	001990399	U-Clamp	1	
21	842539.06	Bracket, engine mount	2	
22	842540.06	Bracket, engine rear	1	
*	MBG5275A	Guard, Muffler Support	2	
24	W148270	Sender, watertemperature	1	
25	A691149	Housing, coupling and Hub	1	
25a	844496	• Hub	1	
25b	844497	• Coupling	1	
28	120052	Lockwasher, #10	2	
29	800296	Screw, #10-24 x 3/4	2	
30	306531	Nut, #10-24	2	
31	547610	Cable, control (throttle)	1	
32	800868	Washer, polyethylene,	2	
33	827821	Knob, ball	1	
34	A109001	Screw, 3/8-16 x 2"	2	
35	A119032	Screw, M10-1.25 x 20mm	2	

* Not Illustrated

3 POWER ASSY GASOLINE

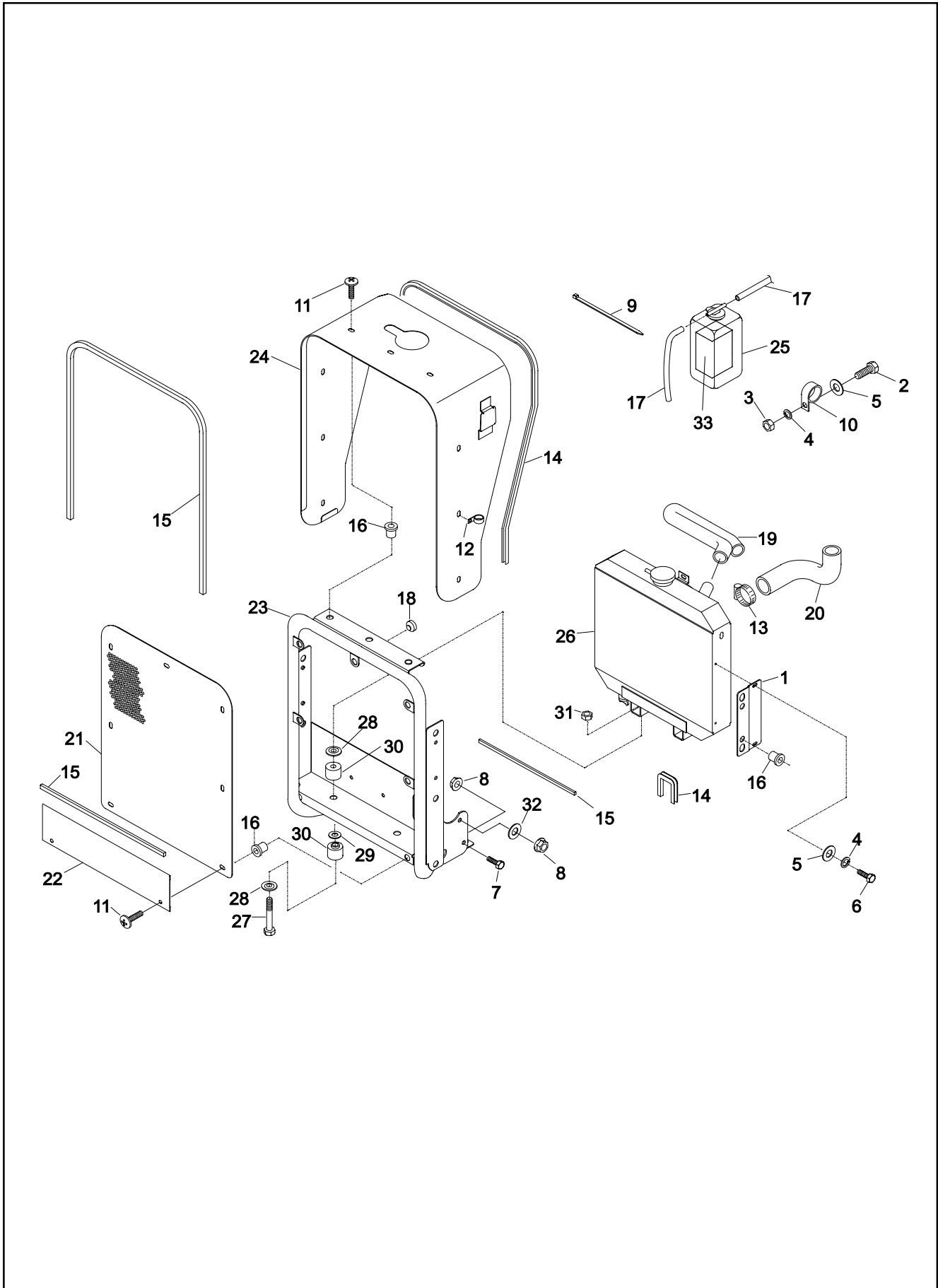


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MAINTENANCE AND PARTS MANUAL
3 POWER ASSY GASOLINE
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450388	Washer, M5	2	Up to Serial Number DN000xxx From Serial Number DN000xxx
2	120166	Lockwasher, 1/2"	2	
3	450412	S.L. Washer, M12	4	
4	4123564	Rear Engine Bracket	1	
5	4123566	Engine Mount Plate	1	
6	4117098	Muffler	1	
7	2701768.8	Tailpipe	1	
8	2701808	Throttle Control & Cable	1	
9	4123773	Muffler Shield	1	
10	450032	Screw, M10 x 50	2	
11	2702239	Housing, Coupler & Adaptor	1	
		• Coupler	1	
		• Adaptor	1	
12	2702384	Seal, Cooler	1	
12	4142825	Seal, Cooler	1	
13	4123676	Heat Shield	1	
14	456110016	Screw, 1/4-20 x 3/4"	8	
15	450120398	Nut, 3/8"-20	1	
16	450120013	Nut, 1/4"-20	8	
17	452200029	S.L. Washer, 1/4"	8	
18	450017	Screw, M8 x 45	4	
19	450376	Nut, M5, Staytite	2	
20	450379	Nut, M10, Staytite	4	
21	456110448	Screw, 3/8"-16 x 1/4"	4	
22	450032	Screw, M10 x 50	2	
23	453003341	Square Key, 1/4" x 1 3/4"	1	
24	450529	Screw, M5 x 20, Pan Hd	2	
25	450378	Nut, M8, Staytite	4	
26	800770	Screw, 1/2"-13 x 3/4"	2	
27	452692	Screw, M6 x 12, Taptite	1	
28	450391	Washer, M10	10	
29	001990399	Clamp	1	
30	814065	Choke Cable (152cm)	1	
32	451126	Screw, No.6 x 9.5, Rec. Pan Hd.	1	
33	826218	Motor Mount	4	
34	827821	Ball Knob	1	
35	894103	Pump	1	
	547731	• Service Kit	1	
36	2701736	Engine, Briggs & Stratton	1	Model 350447 Up to DN000xxx
36	4142405	Engine, Briggs & Stratton	1	Model 356447 From DN000xxx
37		• Gasket	2	Briggs & stratton
38		• Screw	4	Briggs & stratton
*	W48412	Clamp	1	Secures Harness to engine

* Not Illustrated

4 RADIATOR (DIESEL)

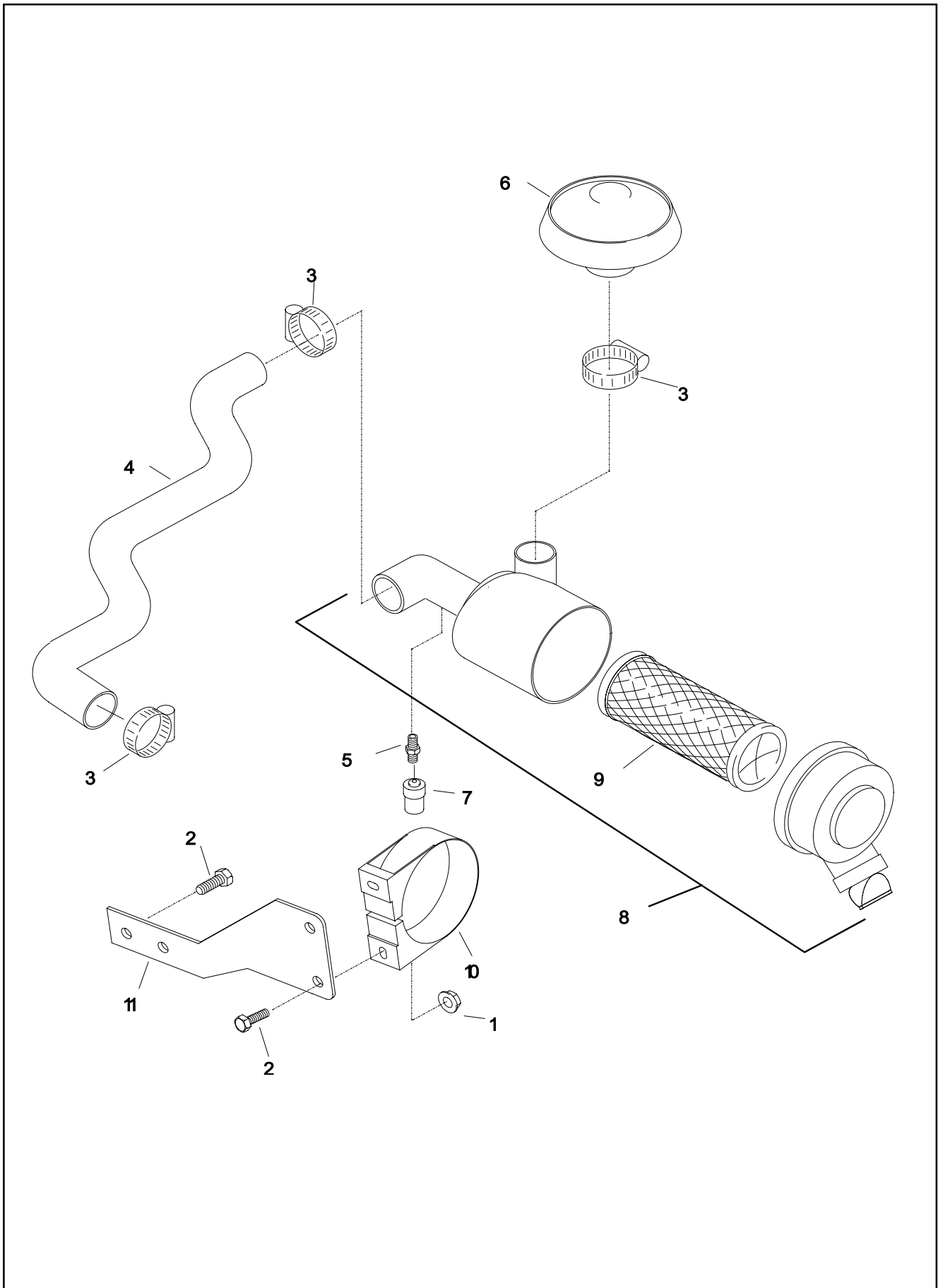


4 RADIATOR (DIESEL)
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	841160.06	Bracket, radiator	2	
2	456110016	Screw, 1/4-20 x 3/4"	1	
3	450120013	Nut, 1/4-20	1	
4	452200029	Lockwasher, 1/4"	5	
5	452100019	Washer, 1/4"	5	
6	450168	Screw, M6 x 16 mm	4	
7	456110595	Screw, 3/8-16 x 3/4"	2	
8	450120267	Nut, crownlock flange, 3/8-16....	4	
9	A199203	Tie, cable, 7 1/2" (191 mm)	3	
10	523213	Clip	1	
11	450551	Screw, P.T.H.	16	
12	815058	Clamp	1	
13	A192540	Clamp, tubing	4	
14	821893	Trim, push-on, 12' (3.6M) As	Req'd	
15	830355	Weatherseal, 35' (10.6M). As	Req'd	
16	A139924	Nut, isolation M8	16	
17	835805	Hose, overflow 4' (1.2M) . As	Req'd	
18	810149	Bumper, rubber	1	
19	A912176	Hose, radiator, top	1	
20	839953	Hose, radiator, bottom	1	
21	839973.07	Panel, screen	1	
22	840062.07	Panel, radiator	1	
23	894077.06	Frame, radiator	1	
23	4131290	Frame radiator	1	From M/C DP000486
24	892633.06	Cover, radiator	1	
25	15531-72-403	Bottle, overflow	1	Ex Kubota
26	16676-72-061	Radiator	1	Ex Kubota
27	450034	Screw, M10 x 60 mm	2	
28	15111-72202	Washer	4	Ex Kubota
30	15111-72181	Bushing, rubber	2	(with spigot) Ex Kubota
30	15111-72191	Bushing, Rubber	2	Ex Kubota
31	450325	Nut, M10 -1.25	2	
32	452000326	Washer, 3/8"	2	
33	523930	Foam	1	

* Not Illustrated

5 AIR CLEANER (DIESEL)

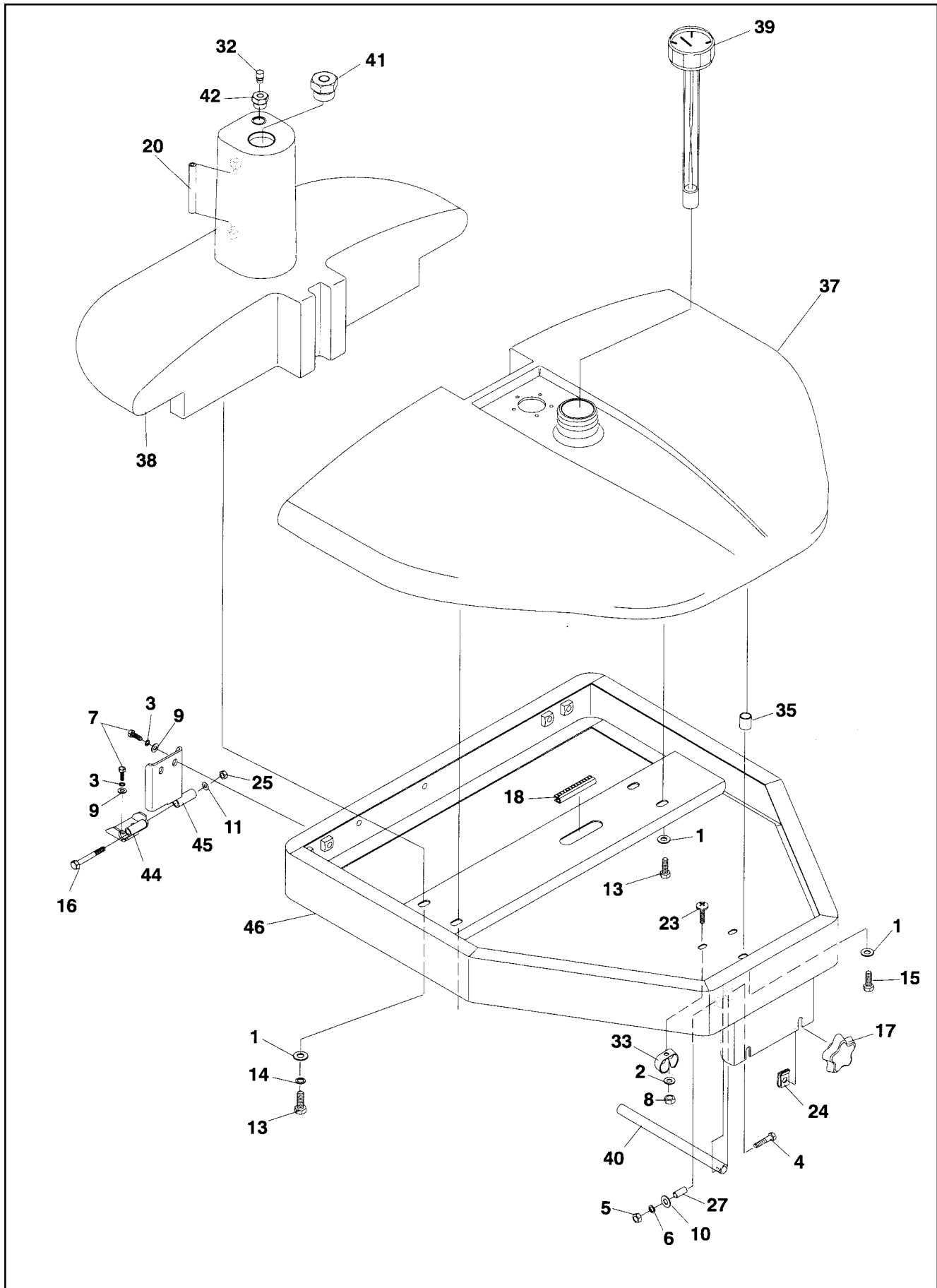


5 AIR CLEANER (DIESEL)
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	A139322	Nut, flange crownlock 5/16-18	2	Replaces 840347
2	456110359	Screw, 5/16-18 x 1"	4	
3	A192557	Clamp, hose, worm drive	3	
4	844045	Hose, air intake	1	
5	840346	Adaptor, gauge	1	
6	4132265	Hood, inlet	1	
*	4132266	Sleeve	1	
7	888036	Gauge, restriction	1	
8	893182	Filter, air, complete	1	
9	0840352	• Element, air filter	1	
10	A819028	Bracket, filter	1	
11	844044.06	Bracket, air filter	1	

* Not Illustrated

6 FUEL & HYDRAULIC RESERVOIRS & SUPPORT FRAME

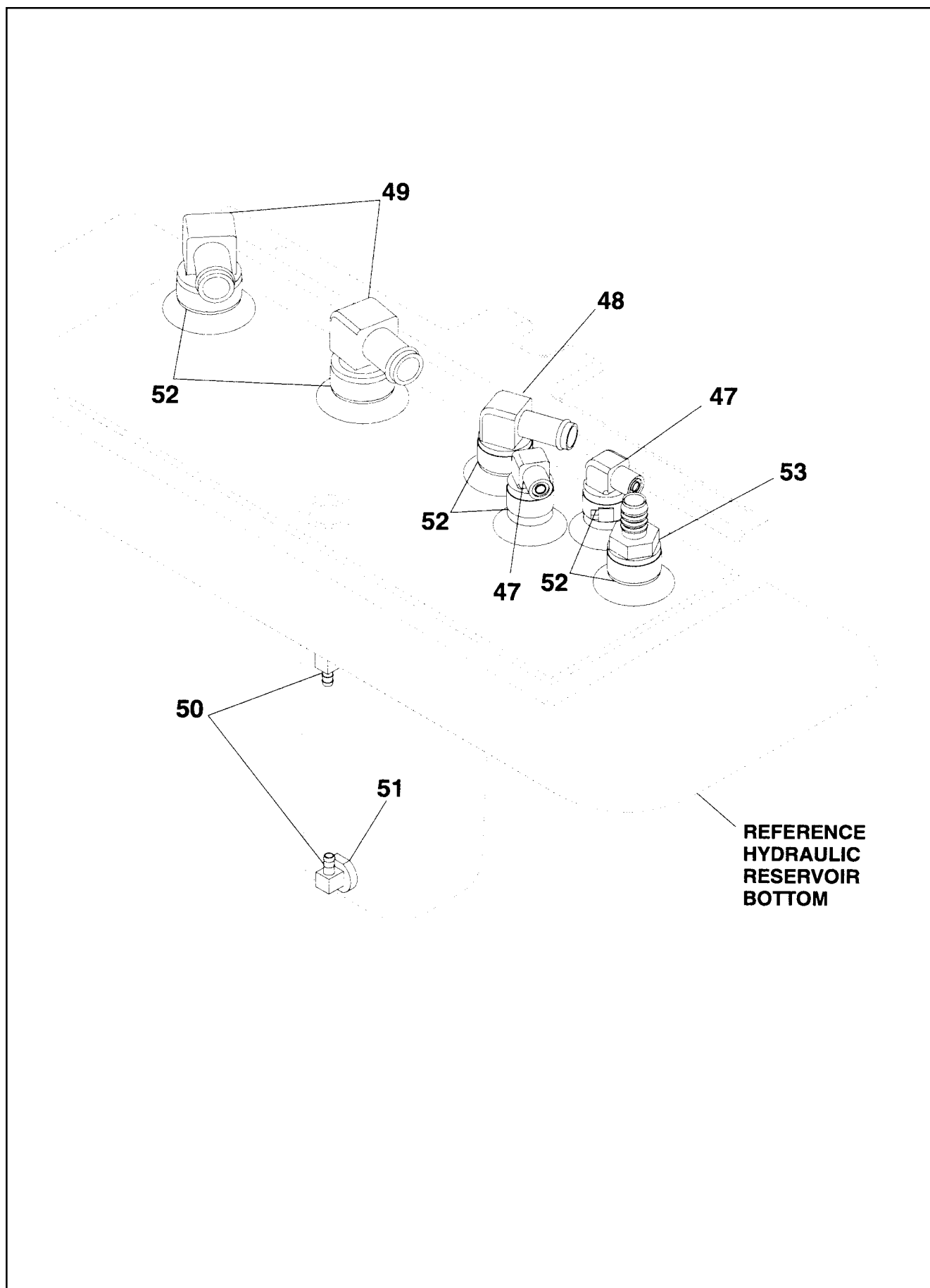


6 FUEL & HYDRAULIC RESERVOIRS & SUPPORT FRAME
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450390	Washer, M8	4	
2	450409	Lockwasher, M5	1	
3	452200134	Lockwasher, 3/8	8	
4	A109011	Screw, 1/4—20 x 1 1/2	1	
5	450120013	Nut, 1/4—20	1	
6	452200029	Lockwasher, 1/4	1	
7	456110066	Screw, 3/8—16x1	4	
*	450214	Screw M10 x 25	4	
8	A139325	Nut, #10	1	
9	450391	Washer, M10	8	
10	452100019	Washer, 1/4	8	
11	450392	Washer, M12	2	
14	450411	Lockwasher, M8	2	
15	452390	Bolt, M8 x 30	1	
16	450061	Screw, M12 x 120	2	
17	A907947	Knob, nut, M8	2	
18	821893	Trim, push—on, 12' (3.7 M)	AR	
20	158122	Tubing, polyurethane,	1	
23	A119109	Screw, #10—24x3/4	1	
24	A907948	Nut, Speed M8	2	
25	450380	Nut, M12	2	
27	820529	Spacer	1	
32	836852	Breather	1	
33	838225	Clip	1	
35	839876	Bushing	1	
37	843267	Tank, fuel	1	
38	843268	Reservoir, oil	1	
39	843401	Cap, fuel with gauge	1	
40	843696	Tube, support, 8" (203 mm)	1	
41	843885	Plug	1	
42	844080	Adapter	1	
44	894352.06	Hinge, lower	1	
45	894353.06	Hinge, upper	1	
46	894354.06	Frame, tank support	1	

* Not Illustrated

7 HYDRAULIC TANK FITTINGS

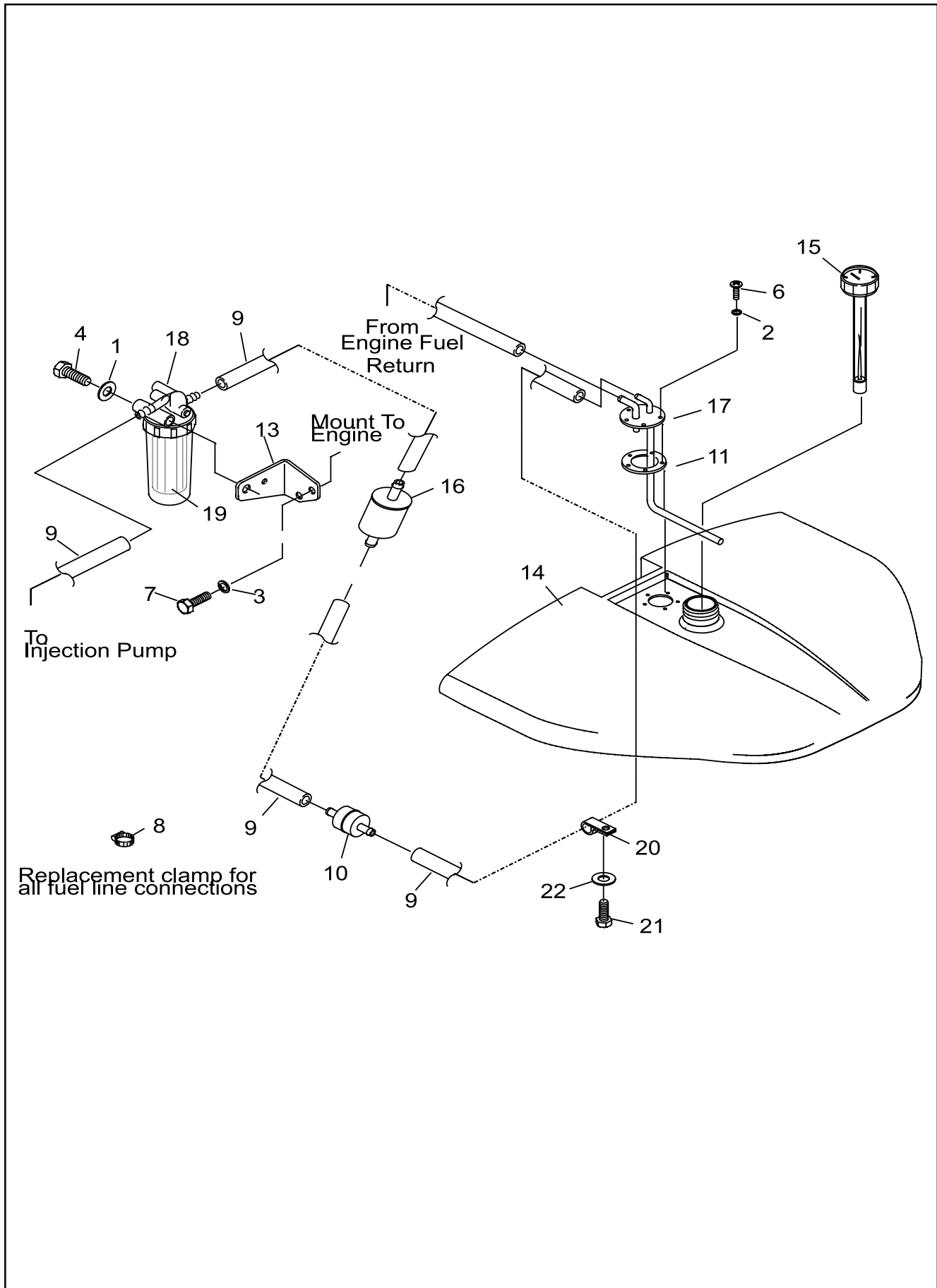


7 HYDRAULIC TANK FITTINGS**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
47	843556	Elbow, 90, 11/16 x 1/2 NPT	1	
48	843557	Elbow, 90, 3/4 x 3/4 NPT	1	
49	843558	Elbow, 90, 1 x 1 NPT	1	
50	148231	Fitting, 3/16, elbow	1	
51	48310	Bushing	1	
52	836206	Clamp	1	
53	869037	Fitting, 3/4 x 3/4 NPT	1	

* Not Illustrated

8 FUEL SYSTEM DIESEL

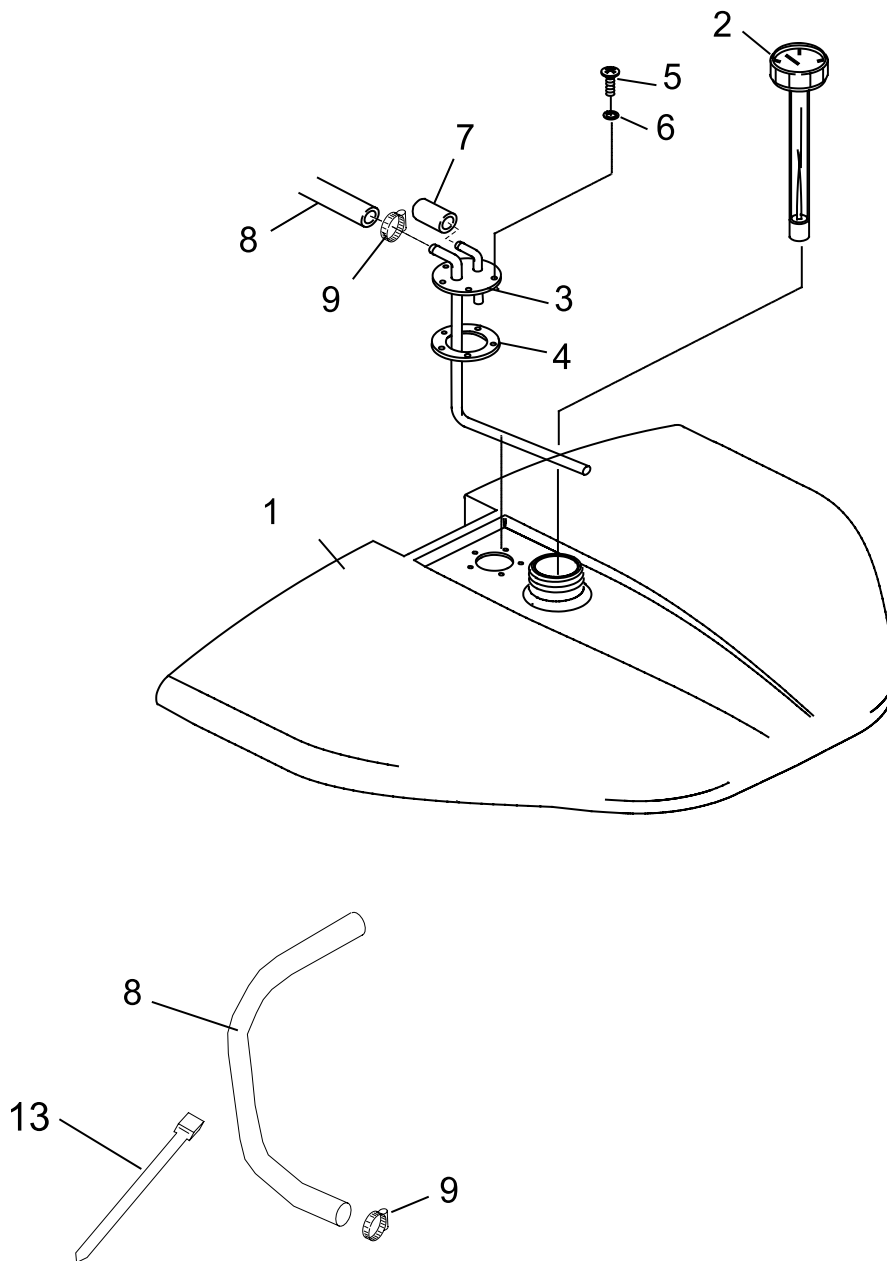


8 FUEL SYSTEM DIESEL
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450390	Washer, M8	1	
2	450409	Lockwasher, M5	5	
3	450411	Lockwasher, M8	2	
4	A109043	Screw, 5/16-18x23/4"	1	
5	450120021	Nut, 5/16-18	1	
6	A119004	Screw, #10-24 x 1/2"	5	
7	450191	Screw, M8-1.25x20mm	1	
8	A192516	Clamp, hose	As Req'd	
9	A912175	Hose, fuel, 5/16	As Req'd	
*	A912182	Hose - Fuel 3/16	1	
10	5001182	Filter, fuel	1	
11	829954	Gasket	1	
12	838154	Bracket, fuel pump mount	1	
13	839975.06	Bracket, mounting, fuel filter	1	
14	843267	Tank, fuel	1	
15	843401	Cap, fuel wigauge	1	
16	4126806	Pump, fuel	1	
17	894256	Pickup, fuel	1	
18		Filter Assembly, fuel	1	Ex Kubota
19	840161	• Element, fuel filter	1	
20	817320	Clamp	1	
21	450190	Screw, M8 x 16mm	1	
22	450390	Washer, M8	1	

* Not Illustrated

9 FUEL SYSTEM GASOLINE

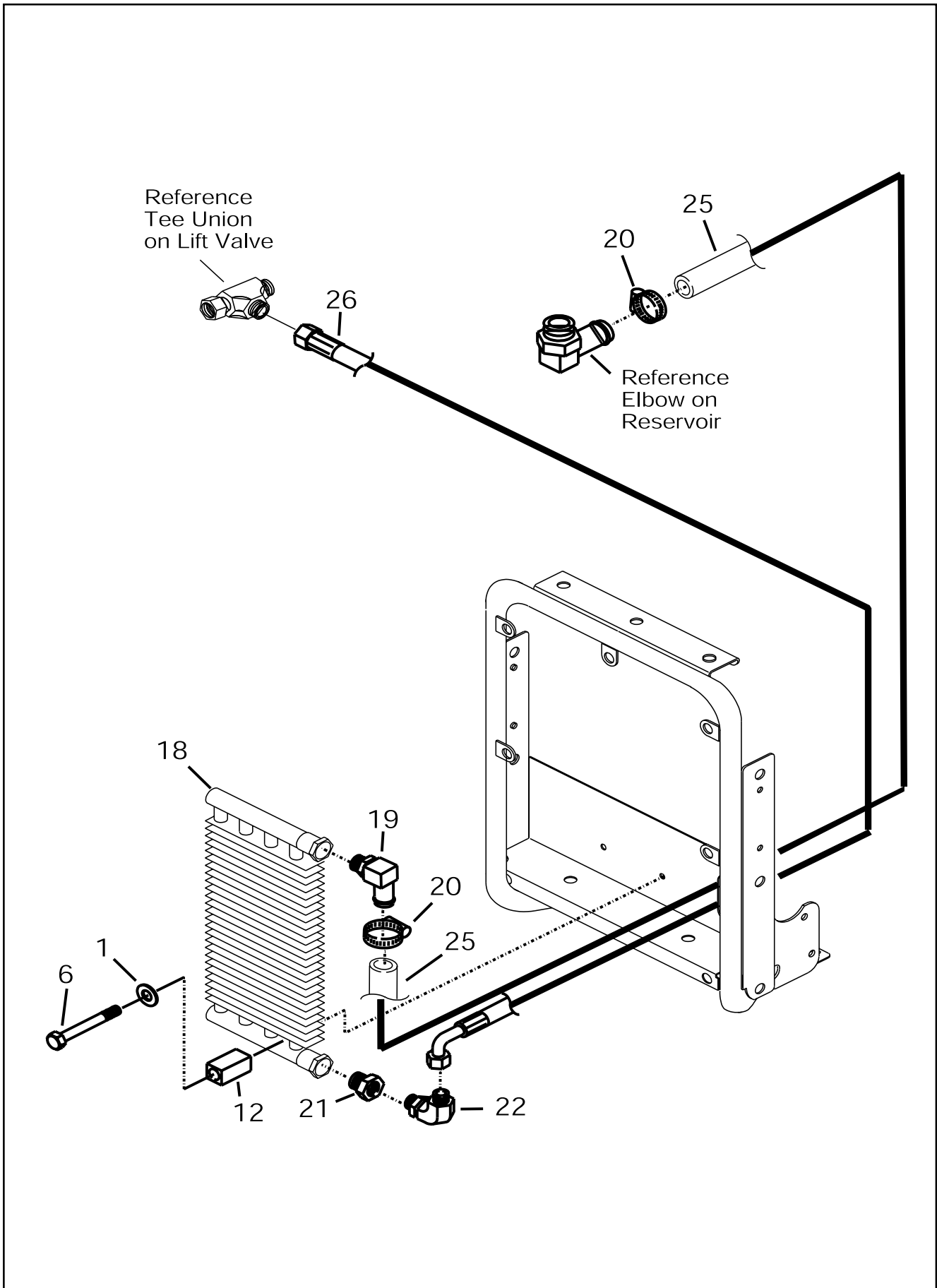


9 FUEL SYSTEM GASOLINE**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	843267	Tank, fuel	1	
2	843401	Cap, fuel with gauge	1	
3	894256	Pickup, fuel	1	
4	829954	Gasket	1	
5	800271	Screw, #10-24 x 1/2"	5	
6	120052	Lockwasher, #10	6	
7	838491	Cap, fuel line	1	
8	001921740	Hose, fuel, 30"	1	
9	001925160	Clamp, hose	2	

* Not Illustrated

10 OIL COOLER MOUNTING DIESEL



10 OIL COOLER MOUNTING DIESEL
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450390	Washer	4	2001 onwards
6	A109018	Screw, 5/16-18 x 1 3/4"	4	
6	450017	Bolt, M8 X 45	4	
12	839501	Mounting block, oil cooler	4	
18	842916	Cooler, oil	1	
19	523768	Adapter, elbow 90	1	
20	001925570	Clamp, hose	1	
21	839807	Adapter, straight	1	
22	W158007-02	Adapter, elbow 90°	1	
25	843930	Hose, hydraulic, 3/4" id x 66"	1	
26	843925	Hose, hydraulic, 1/2" id x 53"	1	(1 9mm id, x 1 .68M) (diesel) (1 3mm id, x 1 .35M) (diesel)

* Not Illustrated

This exploded view diagram illustrates the assembly of a window air conditioning unit. The components are numbered 1 through 26, with some numbers appearing multiple times to indicate identical parts. The diagram shows the following parts and their assembly sequence:

- Window Frame (26):** The base structure into which the unit is installed.
- Mounting Brackets (4):** Used to secure the unit to the window frame.
- Sealing Gaskets (18, 13):** Used to prevent air leakage around the unit.
- Condenser Coils (19):** The external cooling coils.
- Compressor and Motor Assembly (7):** The main power unit.
- Evaporator Coils (25):** The internal cooling coils.
- Filter (24):** The air filter located inside the unit.
- Control Panel (3):** The front panel with the thermostat.
- Drainage System (10, 8, 16):** Components for removing condensate.
- Reference Elbow on Reservoir (21):** A specific fitting for the refrigerant line.
- Reference Tee Union on Lift Valve (23):** A specific fitting for the refrigerant line.

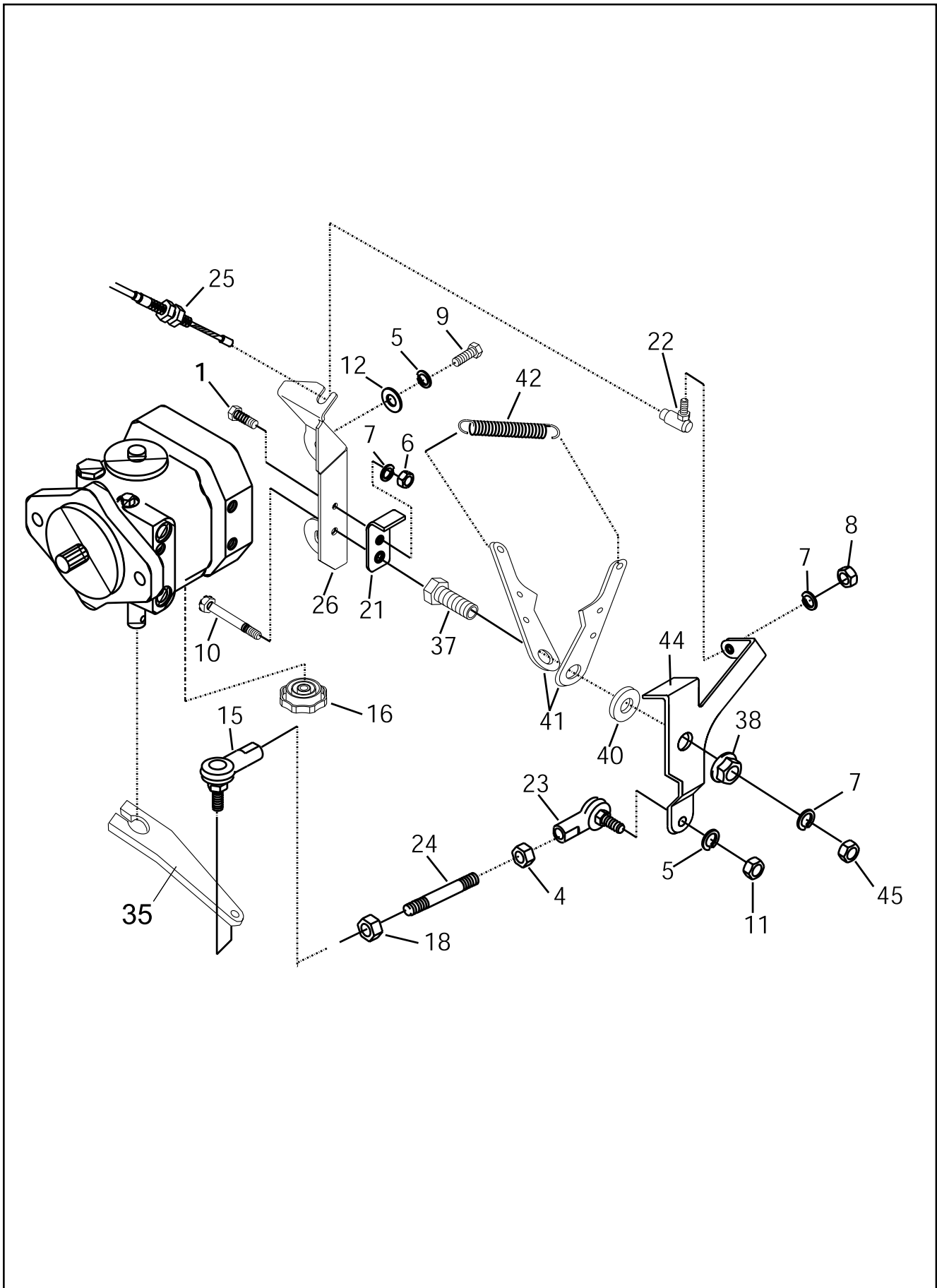
The diagram shows the assembly sequence from the window frame (26) and mounting brackets (4) up to the final installation of the unit, including the condenser coils (19), compressor (7), evaporator coils (25), and control panel (3).

11 OIL COOLER MOUNTING GASOLINE
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450390	Washer, M8	6	
2	4123565	Cover, air intake	1	Up to serial No DN000xxx
2	4140585	Cover, air intake	1	From serial No DN000xxx
3	4123664	Housing, oil cooler	1	Up to serial No.DN000xxx
3	4140587	Housing, oil cooler	1	From serial No DN000xxx
4	4123550	Angle, Cover	2	
5	4123563	Angle, screen	2	
6	2702424	Hose, hydraulic, 3/4" x 62"	1	(19mm x 559mm)
7	2702425	Hose, hydraulic, 1/2" x 41"	1	(13mm x 914mm)
8	450011	Lockwasher, M8	2	
9	450004	Screw, M8 x 45	4	
10	450191	Screw, M8 x 20	2	
11	450389	Washer, M6	6	
12	523768	Adapter, elbow 90°	1	
13	450191	Screw, M8 x 20	1	
14	450377	Nut, M6 Nyloc	4	
15	001496044	Rivet, pop, 13/64" x 3/8"	1	
16	452436	Nut,	2	
17	379050522	Trim, push-on, 12' (3.6M)	AR	
18	469021633	Clamp, tube	2	
19	002989380	Weather seal	AR	
20	835039	Fastener, snap	1	
21	001925400	Clamp, hose	2	
22	839501	Mounting block, oil cooler	4	
23	839807	Adapter, straight	1	
24	839821	Adapter, elbow 90°	1	
25	842916	Cooler, oil	1	
26	843823	Screen, cooler	1	

* Not Illustrated

12 PUMP CONTROL LINKAGE

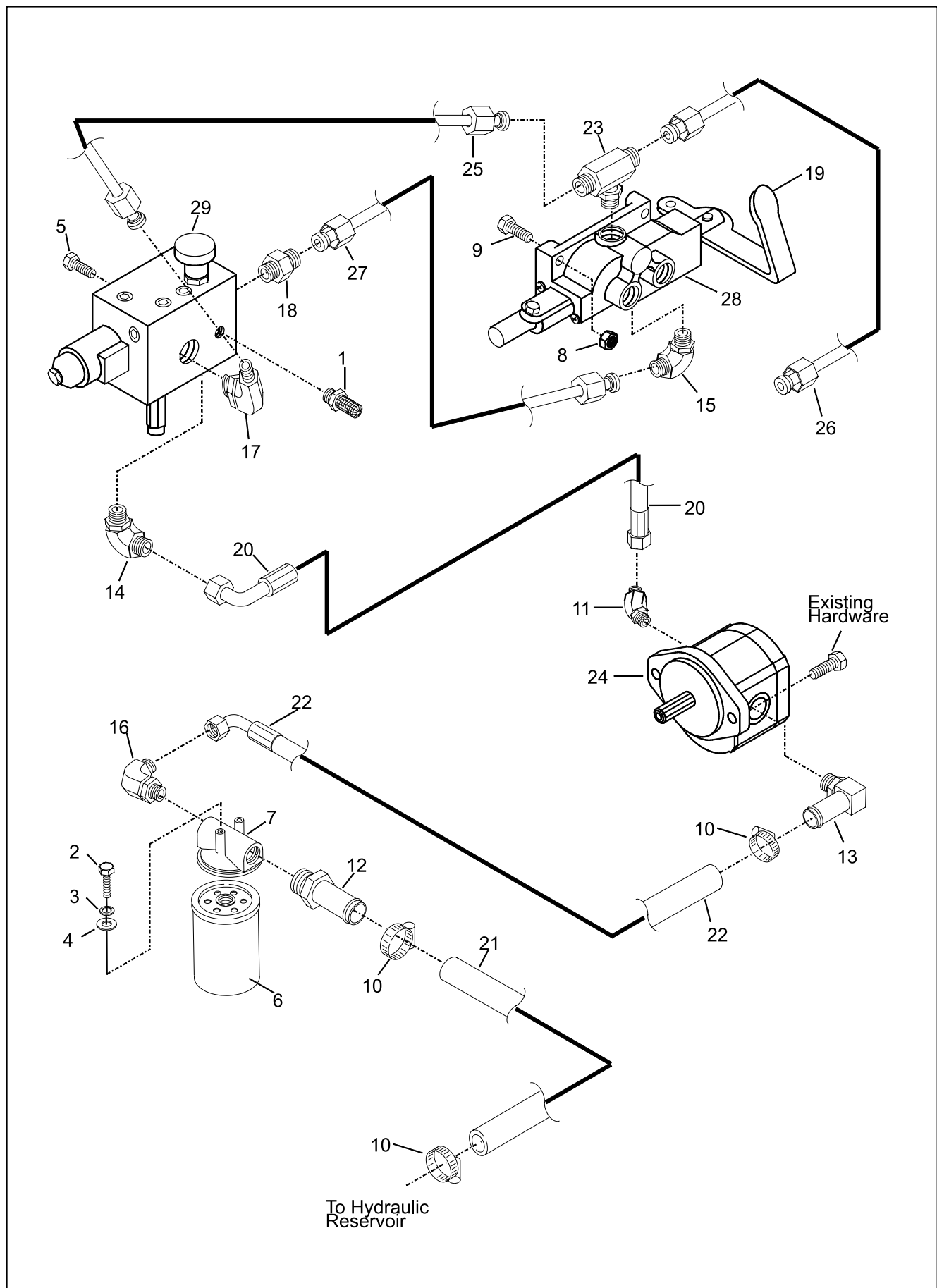


12 PUMP CONTROL LINKAGE
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	456110016	Screw, 1/4-20 x 3/4	1	
4	45002053	Nut, 5/16-24	2	
5	450411	Lockwasher	4	
6	450020037	Nut, 1/4	2	
7	452200029	Lockwasher, 1/4	2	
8	A139912	Nut, 1/4-28 Nyloc	1	
9	456110359	Screw, 5/16-18x1	2	
10	451030269	Screw, 5/16-24 x 2 1/2	1	
11	450020053	Nut, 5/16-24	1	
12	452000326	Washer, 3/8	1	
15	523253	End, control rod	1	
16	523409	Knob	1	
18	450020249	Nut, 5/16-24 (left hand thread)	1	
21	4126343	Stop, neutral control arm	1	
22	831518	Ball Joint	1	
23	831586	Ball Joint	1	
24	838093	Rod, threaded, 5/16-24 x 2 1/2" ..	1	
25	842999	Cable, control	1	
26	843119.06	Bracket, pump control	1	
35*	MBG6344	Control Arm	1	
*	450016	M8x40 Bolt	1	Used Item 35
*	450378	M8 Nyloc Nut	1	Used Item 35
*	451457	M6 Spirol Pin	1	Used Item 35
37	523492	Bushing	1	
38	800559	Nut, crownlock flange, 1/2-20	1	
40	809180	Washer, 7/16"	1	
41	827320	Arm, spring retainer	2	
42	840476	Spring	1	
44	843117	Arm, control	1	
45	450020257	Nut Hex 5/16-24 Thin	1	

* Not Illustrated

13 HYDRAULIC PUMP AND VALVES - DIESEL



13 HYDRAULIC PUMP AND VALVES - DIESEL
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	W178079	Fitting, test	1	
2	456110498	Screw, 1/4-20 x 1/4"	2	
3	452200029	Lockwasher, 1/4"	1	
4	452100019	Washer, 1/4"	2	
5	450213	Screw, M10-1.5x20	2	
6	4136798	Filter, hydraulic	1	
7	547818	Head, hydraulic filter	1	
8	A139305	Nut, 1/4-20	3	
9	A109011	Screw, 1/4-20 x 1 1/2"	3	
10	A192570	Clamp, hose 23-70	3	
11	W158059-01	Adaptor, 450	1	
12	839556	Fitting, adaptor, straight	1	
13	839557	Fitting, adaptor, 90	1	
14	158059-03	Fitting, adaptor, 45	1	
15	W158007-03	Adaptor, elbow, 90	1	
16	839820	Adaptor, elbow, 90	1	
17	W158007-02	Adaptor, elbow, 90	1	
18	W158006-05	Adaptor, straight	1	
19	843411	Lever, valve	1	
20	843923	Hose, hyd. 1/2" i.d. x 28"	1	(13 mm i.d. x 711 mm)
21	843931	Hose, hyd. 1" i.d. x 15"	1	(25.4mm i.d. x 381 mm)
22	843932	Hose, hyd. 1" i.d. x 26 1/2"	1	(25.4mm i.d. x 673mm)
23	844071	Tee, branch	1	
24	2701711	Pump, hydraulic	1	
*	2702707	• Service Kit	As Req'd	
25	894244	Line, hydraulic	1	
26	894245	Line, hydraulic	1	
27	894248	Line, hydraulic	1	
28	2208047	Valve, 4 way 3 position	1	
29	2208146	Valve, reel drive	1	

* Not Illustrated

This diagram illustrates the assembly of a hydraulic system. The components are numbered as follows:

- 1: Plug
- 2: Nut
- 3: Washer
- 4: Seal
- 5: Plug
- 6: Reservoir
- 7: Fitting
- 10: Cap
- 11: Plug
- 12: Fitting
- 13: Fitting
- 14: Fitting
- 15: Fitting
- 16: Fitting
- 17: Fitting
- 18: Fitting
- 19: Fitting
- 20: Fitting
- 21: Hose
- 22: Hose
- 23: Fitting
- 24: Motor
- 25: Fitting
- 26: Fitting
- 27: Fitting
- 28: Fitting
- 29: Cap

Labels and connections include:

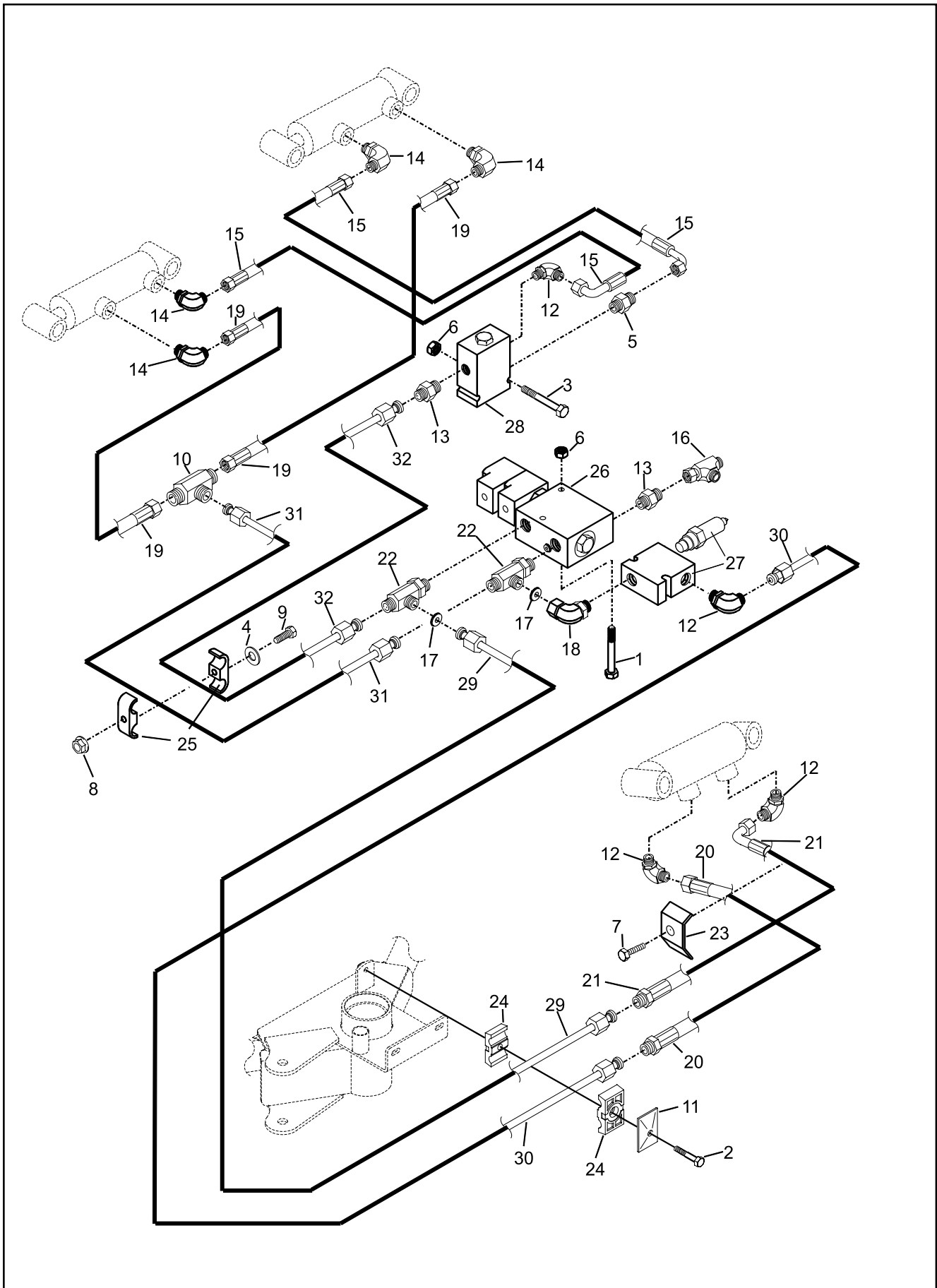
- To Hydraulic Reservoir:** Indicated at the bottom of the diagram.
- Existing Hardware:** Indicated near the motor (24).
- Connections:** Solid lines represent the main hydraulic lines, while dashed lines indicate the assembly path for various fittings and components.

14 HYDRAULIC PUMP AND VALVES - GASOLINE
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	W178079	Fitting, test	1	
2	456110498	Screw, 1/4-20 x 1/4"	2	
3	452200029	Lockwasher, 1/4"	1	
4	452100019	Washer, 1/4"	2	
5	450213	Screw, M10-1.5x20	2	
6	4136798	Filter, hydraulic	1	
7	547818	Head, hydraulic filter	1	
10	A192570	Clamp, hose 23-70	3	
11	W158059-01	Adaptor, 450	1	
12	839556	Fitting, adaptor, straight	1	
13	839557	Fitting, adaptor, 90	1	
14	158059-03	Fitting, adaptor, 45	1	
15	4124349	Adaptor, elbow, 90	2	
16	839820	Adaptor, elbow, 90	1	
17	W158007-02	Adaptor, elbow, 90	1	
18	W158006-05	Adaptor, straight	1	
19	4124173	Tube	1	
20	843923	Hose, hyd. 1/2" i.d. x 28"	1	(13 mm i.d. x 711 mm)
21	843931	Hose, hyd. 1" i.d. x 15"	1	(25.4mm i.d. x 381 mm)
22	843932	Hose, hyd. 1" i.d. x 26 1/2"	1	(25.4mm i.d. x 673mm)
23	002540080	Tee, branch	1	
24	2701711	Pump, hydraulic	1	
*	2702707	• Service Kit	As Req'd	
25	894244	Line, hydraulic	1	
26	894245	Line, hydraulic	1	
27	4124172	Hose, hydraulic	1	
29	2208146	Valve, reel drive	1	

* Not Illustrated

15 HYDRAULIC LIFT CIRCUIT

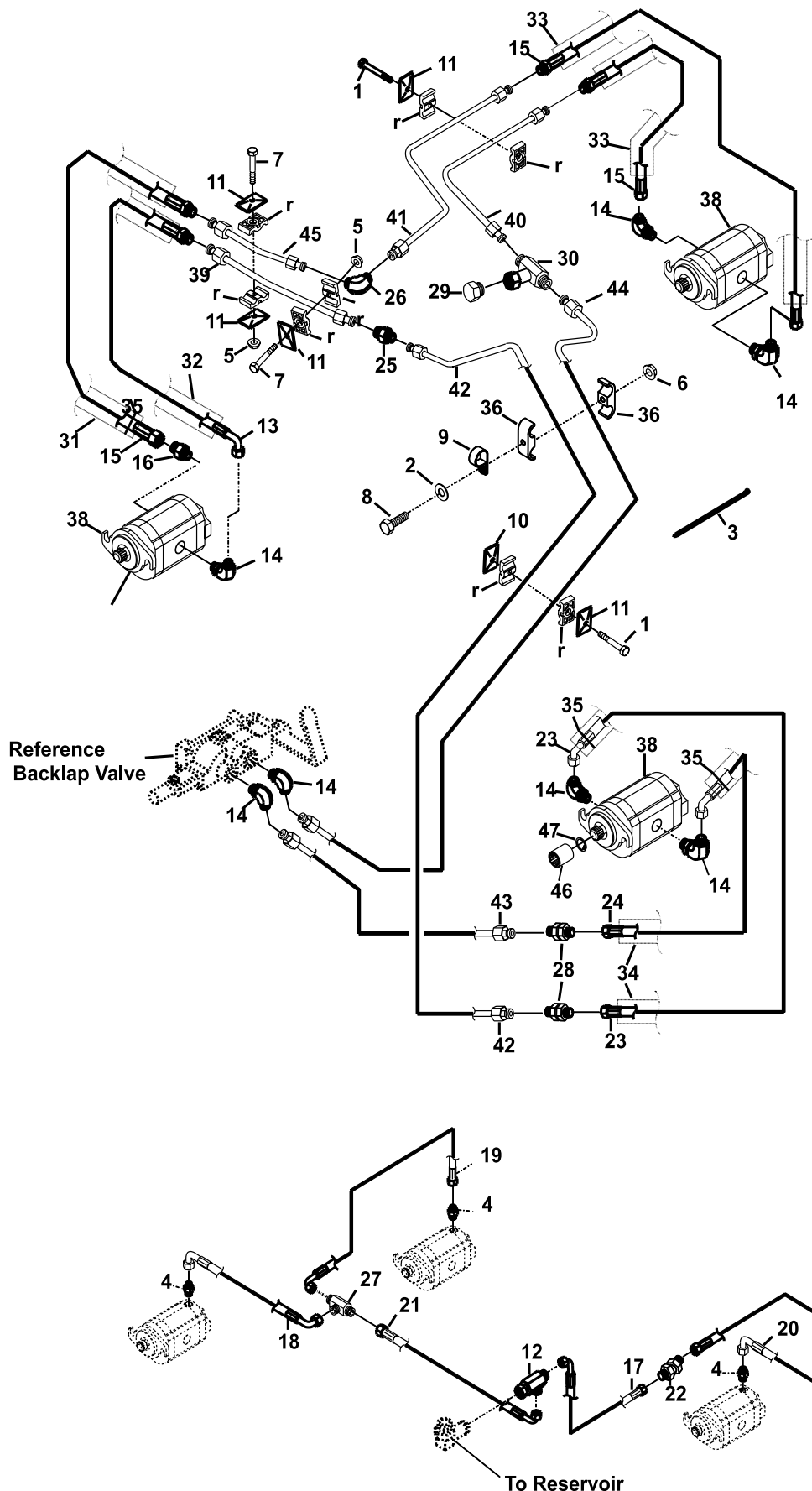


15 HYDRAULIC LIFT CIRCUIT
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	451112681	Screw, 1/4-20 x 2"	2	
2	A109018	Screw, 5/16-18 x 1 3/4"	1	
3	451112681	Screw, 1/4-20 x 2"	2	
4	452100019	Washer, 1/4"	2	
5	W158006-04	Adapter, straight	1	
6	A139305	Nut, 1/4-20	4	
7	456110391	Screw, 5/16-18 x 5/8"	1	
8	A139908	Nut, 1/4-20, flange lock	1	
9	456010941	Screw, 1/4-20 x 1 1/4"	1	
10	W158011-01	Tee, union	3	
11	837736	Plate, clamp cover	2	
12	W158007-01	Adaptor, elbow 90°	3	
13	W158006-01	Adaptor, straight	1	
14	A252501	Adaptor, elbow, 90°	4	
15	839837	Hose, hydr. 1/4" i.d. x 10 1/2"	2	(6mm i.d. x 267mm)
16	A249849	Tee, O-ring	1	
17	841522	Disk, orifice	2	
18	841700	Adaptor, elbow, 90°	1	
19	843908	Hose, hydraulic 1/4 ID x 10 5/8"	2	(6mm ID x 270mm)
20	843916	Hose, hydraulic 3/8 ID x 39"	1	(9.5mm ID x 991 mm)
21	843917	Hose, hydraulic 3/8 ID x 39"	1	(9.5mm ID x 991mm)
22	158056-02	Tee, run	2	
23	844215	Clamp, tube	1	
24	844218	Set, clamp 3/8"	1	
25	844219	Clamp, tube 3/8"	1	
26	894181	Valve, solenoid 4way 3pos	1	
27	4121789	Valve, Bi-directional, Relief	1	Savery: CR1--28B-6T-N-24
*	4125159	Seal Kit	A/R	
28	894184	Valve, dividercombiner	1	
*	MBG5790	Bolt Strap	1	
29	894240	Line assembly, hydraulic	1	
30	894241	Line assembly, hydraulic	1	
31	894242	Line assembly, hydraulic	1	
32	894243	Line assembly, hydraulic	1	

* Not Illustrated

16 HYDRAULIC REEL CIRCUIT

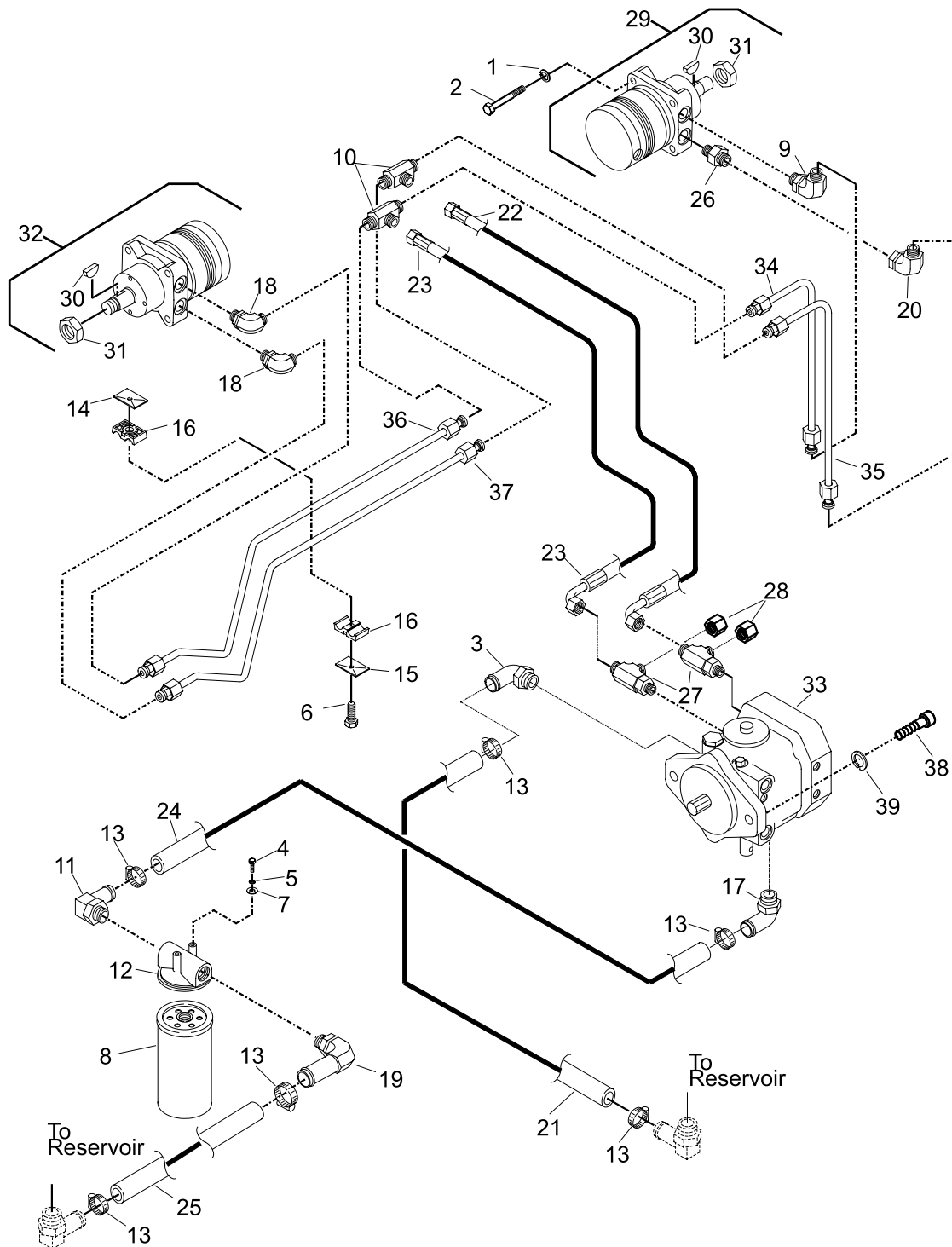


16 HYDRAULIC REEL CIRCUIT**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450018	Screw, M8 x 50	2	
2	452100019	Washer 1/4	1	
3	680001941	Tie, cable	As Req'd	
4	A251500	Adapter, straight	3	
5	452436	Nut, crownlock flange, M8	2	
6	A139912	Nut, crownlock, 1/4-20	1	
7	450020	Screw, flange M8 x 60	2	
8	456010941	Screw, flange, 1/4-20 x 1 1/4"	1	
9	814924	Clamp, hose	1	
10	837735	Plate, twinweld	1	
11	837736	Plate, clamp cover	5	
12	A249840	Tee, O-nng	1	
13	839814	Hose, hyd. 1/2" i.d. x 38"	1	(13mm i.d. x 965mm)
14	W158007-02	Adaptor, elbow, 900	7	
15	841673	Hose, hyd. 1/2" i.d. x 34"	3	(13 mm i.d. x 864 mm)
16	W158006-05	Adaptor, straight	1	
17	842830	Hose, hyd. 1/4" i.d. x 22"	1	(6mm i.d. x 559mm)
18	843909	Hose, hyd. 1/4" i.d. x 40 1/2"	1	(6mm i.d. x 1.03M)
19	843910	Hose, hyd. 1/4" i.d. x 49"	1	(6mm i.d. x 1.245M)
20	843911	Hose, hyd. 1/4" i.d. x 47 1/2"	1	(6mm i.d. x 1.21 M)
21	843913	Hose, hyd. 1/4" i.d. x 76"	1	(6mm i.d. x 1.93M)
22	843915	Union, bhead 45°	1	
23	843921	Hose, hyd. 1/2" i.d. x 47 1/2"	1	(13mm i.d. x 1.21 M)
24	843922	Hose, hyd. 1/2" i.d. x 43 1/4"	1	(13mm i.d. x 1.1 M)
25	843989	Union, male	1	
26	843991	Elbow, male	1	
27	A259009	Tee, bhead	1	
28	844072	Union, bulkhead	2	
29	844078	Plug	1	
30	844082	Tee, branch	1	
31	844083	Sleeve, nylon, 1 7/8" x 38"	1	(48mm x 965mm)
32	844084	Sleeve, nylon, 1 7/8" x 43"	1	(48 mm x 1.1M)
33	844085	Sleeve, nylon, 1 7/8" x 52"	2	(48mm x 1.32M)
34	844214	Sleeve, nylon, 1 7/8" x 48"	2	(48mm x 1.22M)
35	844216	Clamp, hose	8	
36	844217	Clamp, tube	1	
37	892418	Set, clamp hydraulic	4	
38	2701710	Motor, reel drive	3	
*	2702706	• Service Kit	As Req'd	
39	894129	Line, hydraulic	1	
40	894130	Line, hydraulic	1	
41	894131	Line, hydraulic	1	
42	894246	Line, hydraulic	1	
43	894247	Line, hydraulic	1	
44	894249	Line, hydraulic	1	
45	894254	Line, hydraulic	1	
46	J337370	Coupling, drive	3	(Jacobsen Cutting Unit)
47	800810	Ring, internal retaining	3	

* Not Illustrated

17 HYDRAULIC WHEEL DRIVE CIRCUIT

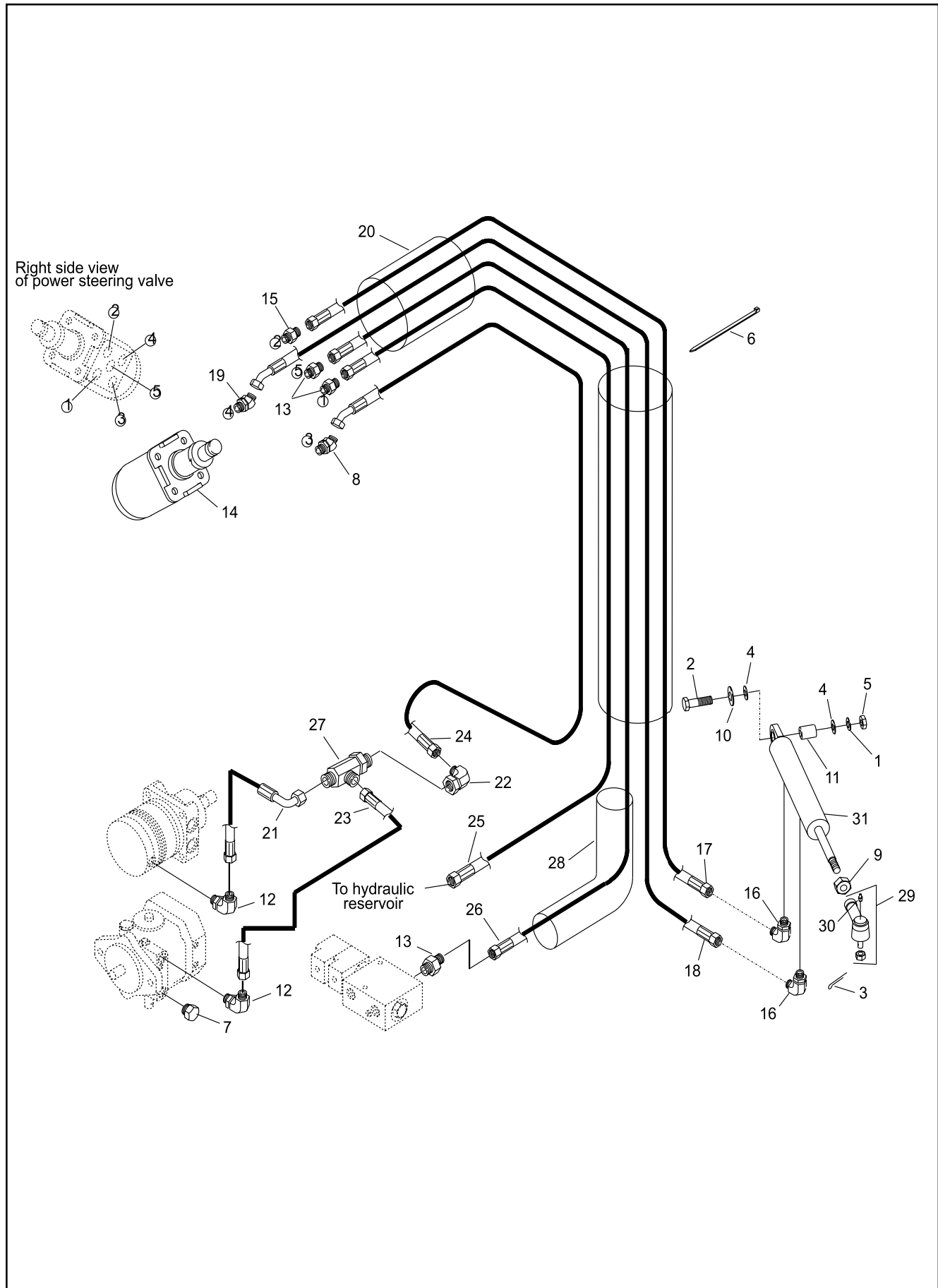


17 HYDRAULIC WHEEL DRIVE CIRCUIT
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450424	Lockwasher, M12	8	
2	450054	Screw, M12 x 170	8	
3	W158058-01	Fitting, adaptor, 900	1	
4	456110016	Screw, 1/4-20 x 3/4"	2	
5	452200029	Lockwasher, 1/4"	2	
6	450016	Bolt- M8 x 40	1	
7	452100019	Washer, 1/4"	2	
8	4136798	Filter, hydraulic oil	1	
9	W158007-05	Adaptor, elbow, 90°	1	
10	A254005	Adaptor, tee	2	
11	523768	Adaptor, elbow, 90°	1	
12	547818	Head, filter	1	
13	A192570	Clamp, hose	6	
14	837735	Plate, twin weld, M8	1	
15	837736	Plate, clamp cover	1	
16	837737	Set, clamp, hydraulic	1	
17	837753	Adaptor, elbow, 90°	1	
18	A253501	Adaptor, elbow, 45°	4	
19	839557	Fitting, adaptor, elbow, 90°	1	
20	A259008	Adaptor, elbow, 90°	1	
21	843914	Hose, hydraulic, 3/4" i.d. x 17"	1	(19mm i.d. x 432mm)
22	843926	Hose, hydraulic, 1/2" i.d. x 16 3/4"	1	(13mm i.d. x 425mm)
23	843927	Hose, hydraulic, 1/2" i.d. x 18 1/2"	1	(13mm i.d. x 470mm)
24	843928	Hose, hydraulic, 3/4" i.d. x 22 1/2"	2	(19mm i.d. x 572mm)
25	843933	Hose, hydraulic, 1" i.d. x 12 3/4"	1	(25.4mm i.d. x 324mm)
26	W158006-07	Connector	2	
27	W158056-01	Tee, run	1	
28	A256803	Cap	1	
29	4115024	Motor, hydraulic HOS	1	
30	800777	• Key, woodruff, 5/16" x 1"	1	
31	800778	• Nut, 1-20	1	Torque 220Nm
*	891910	• Kit, service	As Req'd	
32	892381	Motor, hydraulic	1	
30	800777	• Key, woodruff, 5/16" x 1"	1	
31	800778	• Nut, 1-20	1	Torque 220Nm
*	891910	• Kit, service	As Req'd	
33	894103	Pump, hydraulic	1	
*	547731	eKit, service ...	As Req'd	
34	894250	Line, hydraulic, bottom (left)	1	
35	894251	Line, hydraulic, top (top)	1	
36	894252	Line, hydraulic, bottom (right)	1	
37	894253	Line, hydraulic, top (right)	1	
38	800770	Screw, 1/2-13 x 1 3/4"	2	
39	452200176	Lockwasher, 1/2"	2	

* Not Illustrated

18 HYDRAULIC POWER STEERING



18 HYDRAULIC POWER STEERING
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	452200176	Lockwasher, 1/2"	1	
2	451030667	Screw, 1/2-20x2 1/2"	1	
3	451225	Pin, cotter; 3/32" x 3/4"	1	
4	452101285	Washer, 1/2"	2	
5	450020142	Nut, 1/2-20	1	
6	680001941	Tie, cable,	3	
7	A244405	Plug	1	
8	A253507	Adaptor, elbow, 45°	1	
9	800490	Nut, M14x1.5, grade 8	1	
10	800800	Washer, 1/2" i.d., 1 1/2" o.d	1	
11	831877	Bushing	1	
12	W158007-01	Adaptor, elbow, 90°	2	
13	W158006-01	Adaptor, straight	3	
14	894001	Gear, power steering	1	
*	892850	kit, service	As Req'd	
15	A251510	Fitting, adaptor	1	
16	A252501	Adaptor, elbow, 90°	2	
17	839841	Hose, hydraulic, 1/4" i.d. x 70"	1	(6mm i.d. x 1.8M)
18	839842	Hose, hydraulic, 1/4" i.d. x 77"	1	(6mm i.d. x 1.96M)
19	839846	Fitting, adaptor, 45°	1	
20	840192	Sleeve, nylon 3" x 16"	1	(76mm x 406mm)
21	841676	Hose, hydraulic, 1/4" i.d. x 30"	1	(6mm i.d. x 762mm)
22	A259010	Elbow, 90°, O-ring	1	
23	843912	Hose, hydraulic, 3/8" i.d. x 22"	1	(9.5 mm i.d. x 559 mm)
24	A799371	Hose, hydraulic, 1/4" i.d. x 49"	1	(6mm i.d. x 1.24M)
25	843919	Hose, hydraulic, 1/4" i.d. x 72 1/2"	1	(6mm i.d. x 1.84M)
26	843920	Hose, hydraulic, 1/4" i.d. x 60 5/8"	1	(6mm i.d. x 1.54M)
27	A259009	Tee, Bulkhead	1	
28	844086	Sleeve, nylon 1 7/8" x 12"	2	(48mm x 305mm)
29	887692	End, tie rod	1	
30	842000044	• Fitting, lubrication, 1/4-28	1	
31	892272	Cylinder, hydraulic	1	
*	A230101	• Kit, service	AR	Garner(UK)

* Not Illustrated

This technical drawing is an exploded view of a mechanical assembly, showing 33 individual components numbered 1 through 33. The components are arranged to show their relative positions and how they fit together. Key parts include:

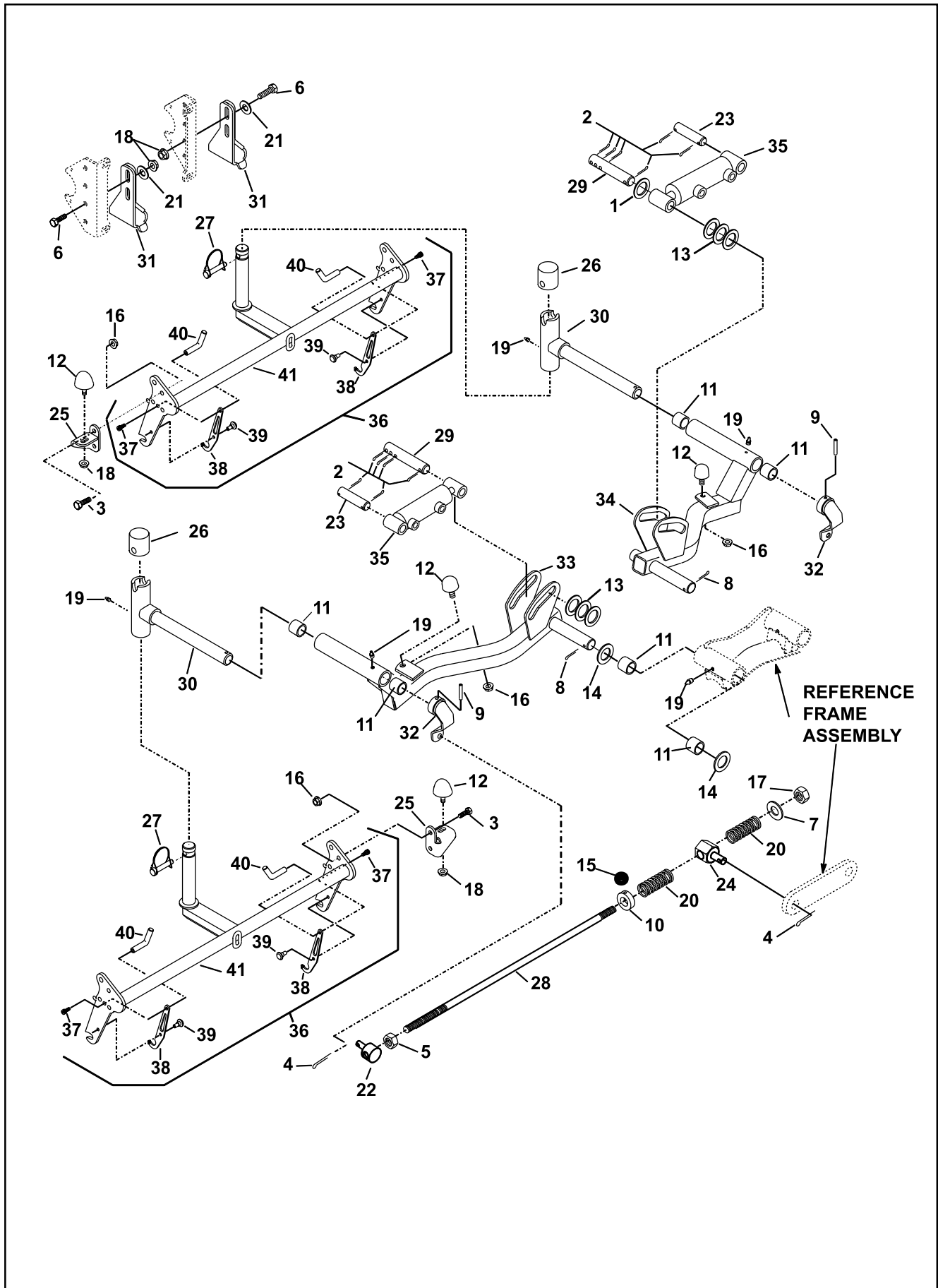
- 1**: A long, thin metal rod or shaft.
- 2**: A circular flange or base plate.
- 3**: A small cylindrical pin or bush.
- 4**: A small, flat, rectangular plate.
- 5**: A collection of small fasteners, including screws and washers.
- 6**: A small cylindrical component, possibly a pin or bush.
- 7**: A curved metal bracket or arm.
- 8**: Two small cylindrical pins or bushings.
- 9**: A small cylindrical component, possibly a pin or bush.
- 10**: A small rectangular plate or washer.
- 11**: A large, L-shaped metal bracket or base.
- 12**: A rectangular metal housing or enclosure.
- 13**: A small rectangular plate or washer.
- 14**: A circular flange or base plate.
- 15**: A curved metal bracket or arm.
- 16**: A small rectangular plate or washer.
- 17**: A small rectangular plate or washer.
- 18**: A long, thin metal rod or shaft.
- 19**: A small rectangular plate or washer.
- 20**: A curved metal bracket or arm.
- 21**: A curved metal bracket or arm.
- 22**: A small rectangular plate or washer.
- 23**: A small rectangular plate or washer.
- 24**: A small rectangular plate or washer.
- 25**: A small rectangular plate or washer.
- 26**: A small rectangular plate or washer.
- 27**: A small cylindrical pin or bush.
- 28**: A small cylindrical pin or bush.
- 29**: A small cylindrical pin or bush.
- 30**: A small rectangular plate or washer.
- 31**: A small rectangular plate or washer.
- 32**: A small rectangular plate or washer.
- 33**: A small rectangular plate or washer.

19 CONTROL ARM
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	452101285	Washer, 1/2"	2	
2	450393	Washer, M16	1	
3	451031477	Screw, 1/2-20x4 1/2"	1	
4	A914210	Cover, handle	1	
5	A139401	Nut, speed, M6	8	
6	450542	Screw, M6 P.T.H	8	
7	A139903	Nut, Nylock , 1/2-20	1	
8	456110448	Screw, 3/8-16 x 1 1/4"	2	
9	800845	Bolt, carriage, 1/2-13 x 1 1/2"	1	
10	800886	Nut, M16, grade 8	1	
11	839721	Cover, steering unit, lower	1	
12	MBG6330	Cover, steering unit, top	1	
13	839860.06	Bracket, mounting cover	1	
14	892228	Wheel, steering, 14" (356 mm)	1	
15	892435.06	Handle	1	
16	840017	Cover, steering wheel	1	
17	4124005	• Decal, Steering Wheel.	1	
18	893860.06	Arm, steering	1	
19	A913552	Gaiter	1	
20	MBF2047	Switch Handle	1	
21	A895519	Softex Grip	1	
22	MBG6060	Pin	1	
23	MBF2020	Switch Bracket	1	
24	MBG5769	Bracket-Switch	1	
25	MBG5770	Hinge Bracket	1	
26	450370	Nutsert - M8 2nd Grip	2	
27	450192	Screw - M8 x 25 HEX	2	
28	450390	Washer - M8	2	
29	450411	S.L Washer - M8	2	
30	450940	Setscrew - M4x4 Sckt Cup Pt.	1	
31	450151	Screw - M5 x 16 HEX	2	
32	450388	Washer - M5	4	
33	450376	Nut M5 Nyloc	2	

* Not Illustrated

20 LIFT ASSEMBLY - FRONT CUTTING HEADS



JACOBSEN G PLEX III Series: DN & DP MAINTENANCE AND PARTS MANUAL

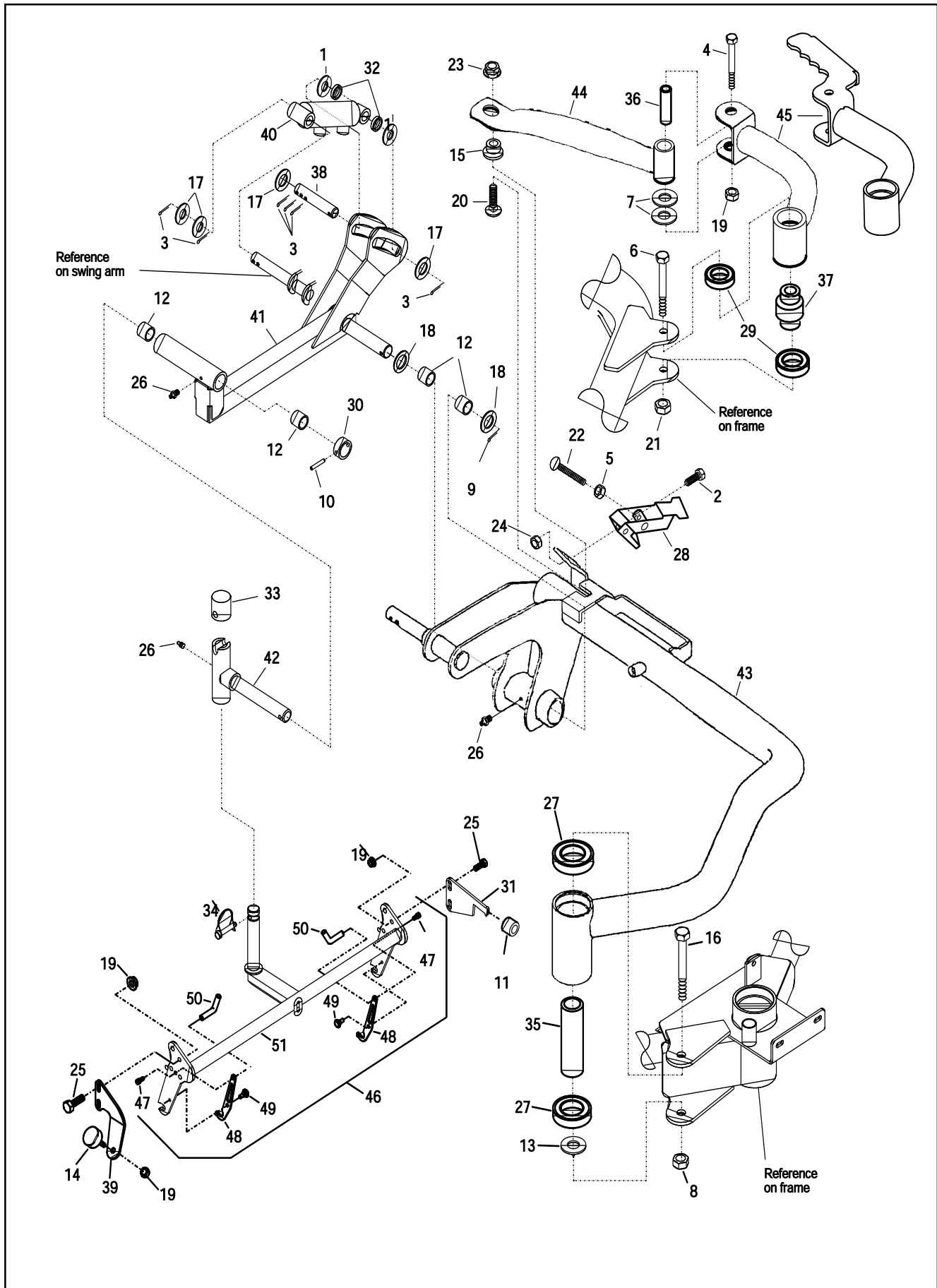
20 LIFT ASSEMBLY - FRONT CUTTING HEADS

LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	452000562	Washer, 3/4" ID 1 1/2" OD	1	
2	454000297	Pin, cotter 1/8" x 1 1/8"	12	
3	456110341	Screw, 5/16-18 x 7/8"	4	
4	451225	Pin, cotter,	4	
5	450020265	Nut, jam, 3/8-24	2	
6	451111855	Screw, 5/16-18 x 1 1/4"	3	
7	452000326	Washer, 3/8"	2	
8	454000572	Pin, cotter, 3/16"x13/4"	2	
9	64061-26	Pin, spirol, 1/4"	2	
10	MBF0654A	Coller, set, 3/8"	2	
11	590002786	Bushing	8	
12	523126	Bumper, rubber	4	
13	548168	Washer, 5/8" ID 1 1/4" OD	10	
*	J303629	Washer 0.766" x 1.312"	AR	
14	548173	Washer, 1" ID 1 3/4" OD	4	
15	A129037	Screw, 1/4-20 x 1/4"	2	
16	A139301	Nut, flange lock, 5/16-18	6	
17	A139910	Nut, crownlock, 3/8-24	2	
18	A139322	Nut, ,5/16-18 Staytite	2	
*	A139301	Nut, flange lock, 5/16-18	4	
19	842000044	Fitting, lubrication, 1/4-28	4	
*	A299316	Fitting, M6 x 90 Deg.	2	
20	814499	Spring, compression	4	
21	450390	Washer, M8	3	
22	839181	Pin, rodconnecting, threaded	2	
23	840507	Pin, lift cylinder pivot	2	
24	841203	Pin, rod connecting	2	
25	841466.06	Bracket, bumper-front	2	
26	4126779	Cap, pivotshaft	2	
27	841744	Pin, lynch, 3/8"x2"	2	
28	842471	Rod, Threaded, 3/8 - 24	2	
29	843821	Pin, cylinder pivot	2	
30	892175	Pivot, fronthead steering	2	
31	892794	Bracket, bumper	2	
32	893787	Arm	2	
33	893857.07	Arm, LH front	1	
34	893858.07	Arm, RH front	1	
35	894083.07	Cylinder, hydraulic lift	2	
*	A230117	• Kit, service	As Req'd	Garner (Uk Spec)
36	897174	Frame assembly, head	2	
37	800864	• Screw, hex socket head	4	#10-24 x 1/2"
38	842401	• Latch	4	
39	842402	• Rivet	4	
40	842403	• Handle	4	
41	893739.06	• Frame	2	

* Not Illustrated

21 LIFT ASSEMBLY - REAR CUTTING HEAD

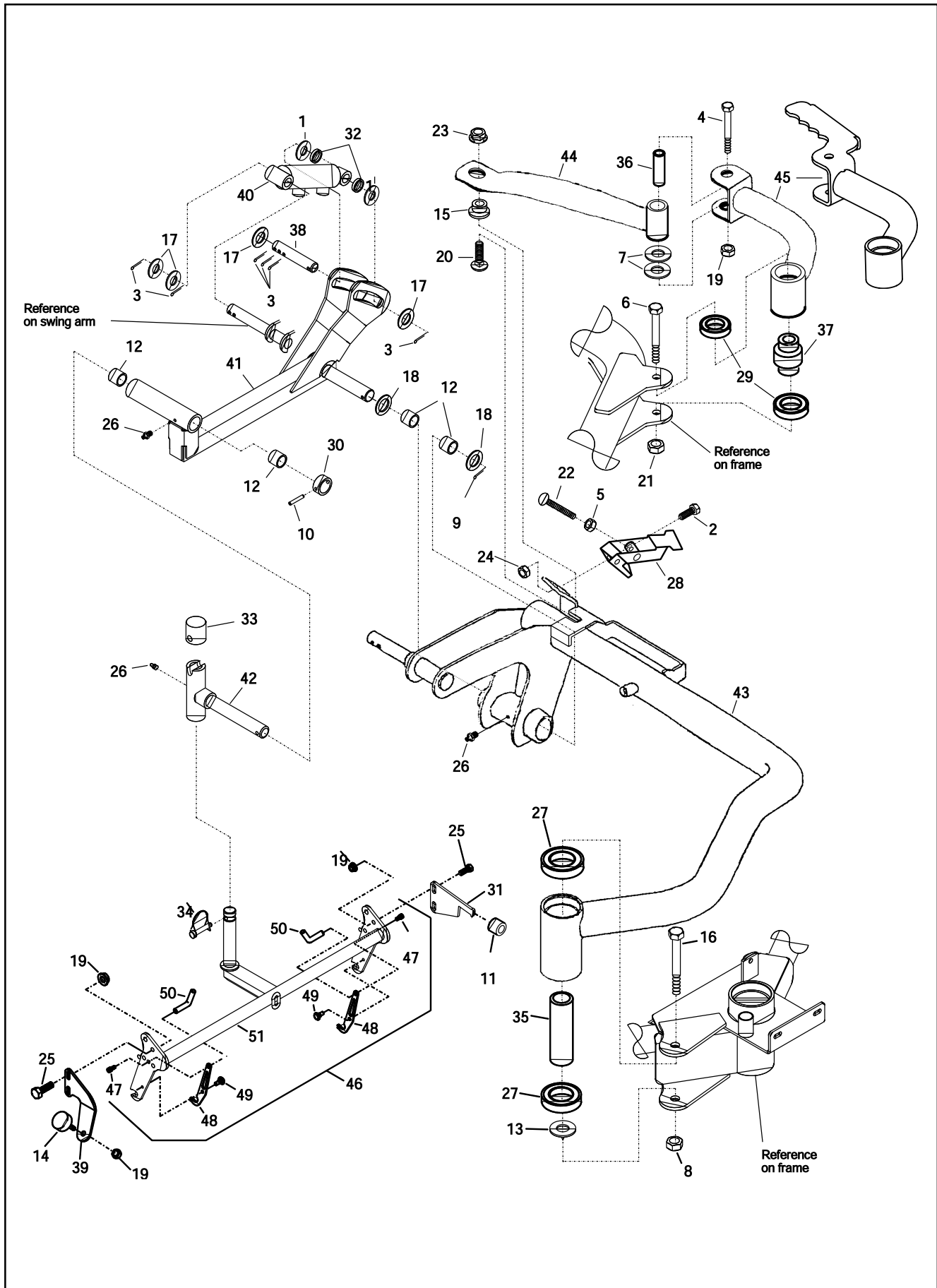


21 LIFT ASSEMBLY - REAR CUTTING HEAD
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	452000562	Washer, 3/4" ID 1 1/2" OD	2	To be positioned on top of item 43
2	456110498	Screw, 1/4-20 x 1/2"	2	
3	454000297	Pin, cotter, 1/8" x 1 1/8"	6	
4	451030269	Screw, 5/16-24 x 2 1/2"	1	
*	A139311	Nut-Hex 5/16-24 Whiz	1	
5	450120021	Nut, 5/16-18	1	
6	456110375	Screw, 3/8-16 x 2 3/4"	1	
7	452101285	Washer, 1/2" ID 1" OD	2	
8	450327	Nut, M16	1	
9	454000572	Pin, cotter, 3/16" x 1 3/4"	1	
10	64061-26	Pin, spirol, 1/4" x 1 3/4"	1	
11	517163	Spacer, rubber	1	
12	590002786	Bushing	4	
13	522840	Washer, thrust	1	
14	523126	Bumper, rubber	1	
15	524215	Bushing, turf guard	1	
16	450082	Screw, M16 x 140	1	
17	548168	Washer, 5/8" ID 1 1/4" OD	5	
18	548173	Washer, 1" ID 1 3/4" OD	2	
19	A139301	Nut, flangelock, 5/16-18	6	
20	800071	Bolt, carriage, 3/8 UNC x 1"	1	
21	450120267	Nut, centerlock 3/8-16	1	
22	800352	Bolt, carriage, 5/16-18 x 3"	1	
23	A139910	Nut-Hex 3/8-24 Nyloc	1	
24	A139912	Nut, crownlock, 1/4-20	2	
25	456110189	Screw, 5/16-18 x 3/4"	4	
26	842000044	Fitting, lubrication, 1/4-28	3	
27	832499	Bearing, ball, 1" ID 2" OD	2	
28	838476	Latch, draw	1	
29	839063	Bearing, ball, 5/8" ID 1 3/8" OD	2	
30	839410	Bushing, spring stop	1	
31	840085.06	Stop, reel	1	
32	840344	Bushing	2	
33	4126779	Cap	1	
34	841744	Pin, lynch, 3/8 x 2"	1	
35	843181	Spacer, bearing	1	
36	843185	Bushing, pivot	1	
37	843195	Spacer, bearing	1	
38	843821	Pin, cylinder pivot	1	
39	869118.06	Mount, rear frame stop	1	
40	893495	Cylinder, hydraulic	1	
*	A230118	-Kit, service	As Req'd	Garner (Uk Spec)
41	893856.06	Arm, rear	1	
42	893859	Pivot, rear head	1	

* Not Illustrated

21 LIFT ASSEMBLY - REAR CUTTING HEAD

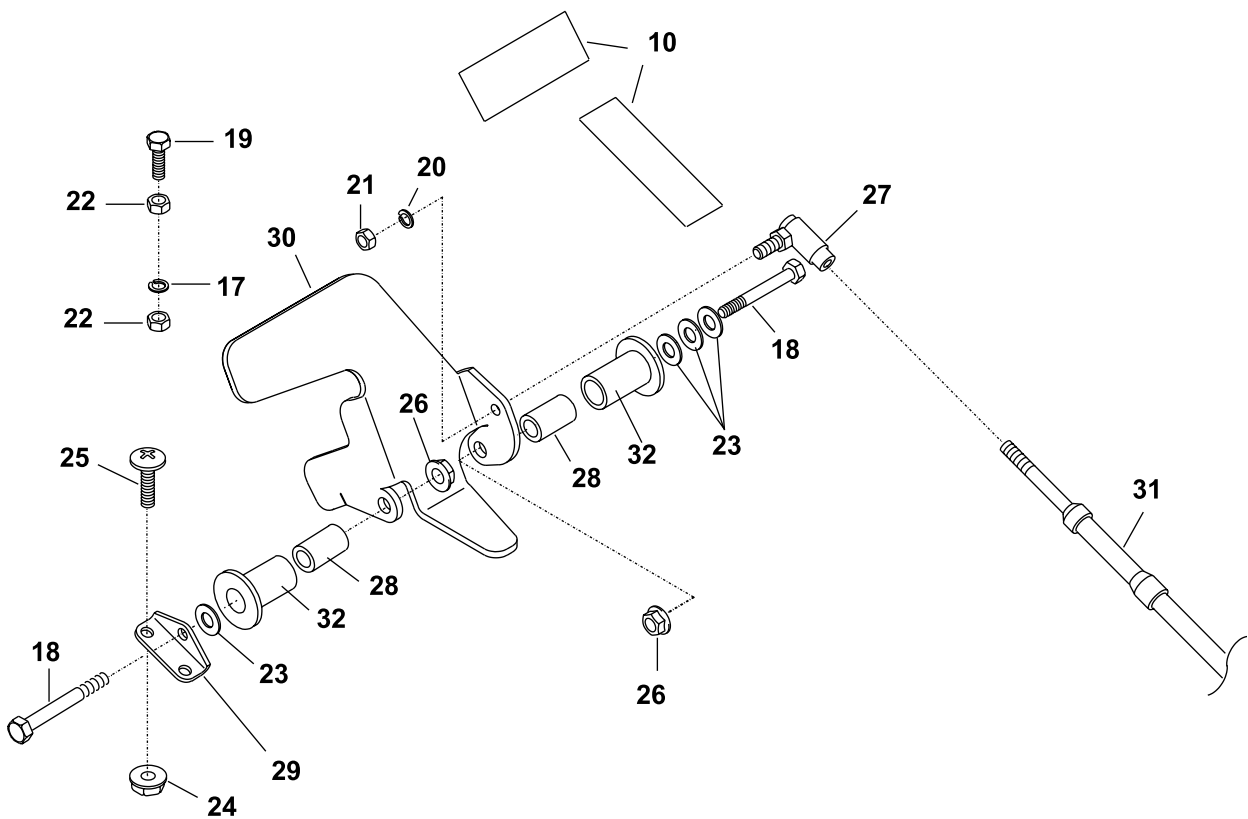
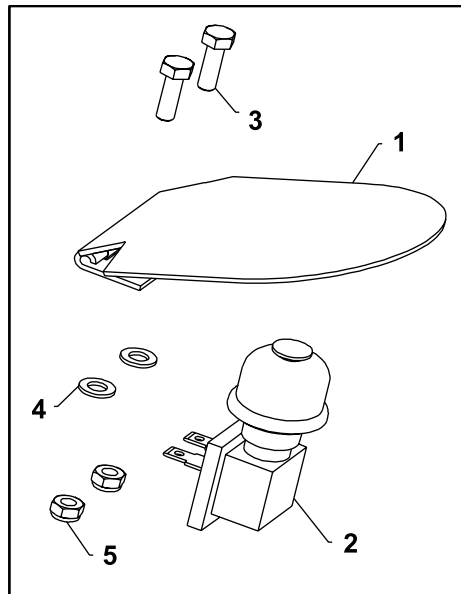


21 LIFT ASSEMBLY - REAR CUTTING HEAD**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
43	894140.06	Arm, Swing	1	#10-24 x 1/2"
43	4141108	Arm Swing minus handle	1	
44	894141.06	Link, arm	1	
45	894164.06	Arm, Pivot	1	
45	4140646	Arm, pivot c/w handle	1	
46	897174	Frame assembly, head	1	
47	800864	• Screw, hex socket head	2	
48	842401	• Latch	2	
49	842402	• Rivet	2	
50	842403	• Handle	2	
51	893739.06	• Frame, head steering	1	

* Not Illustrated

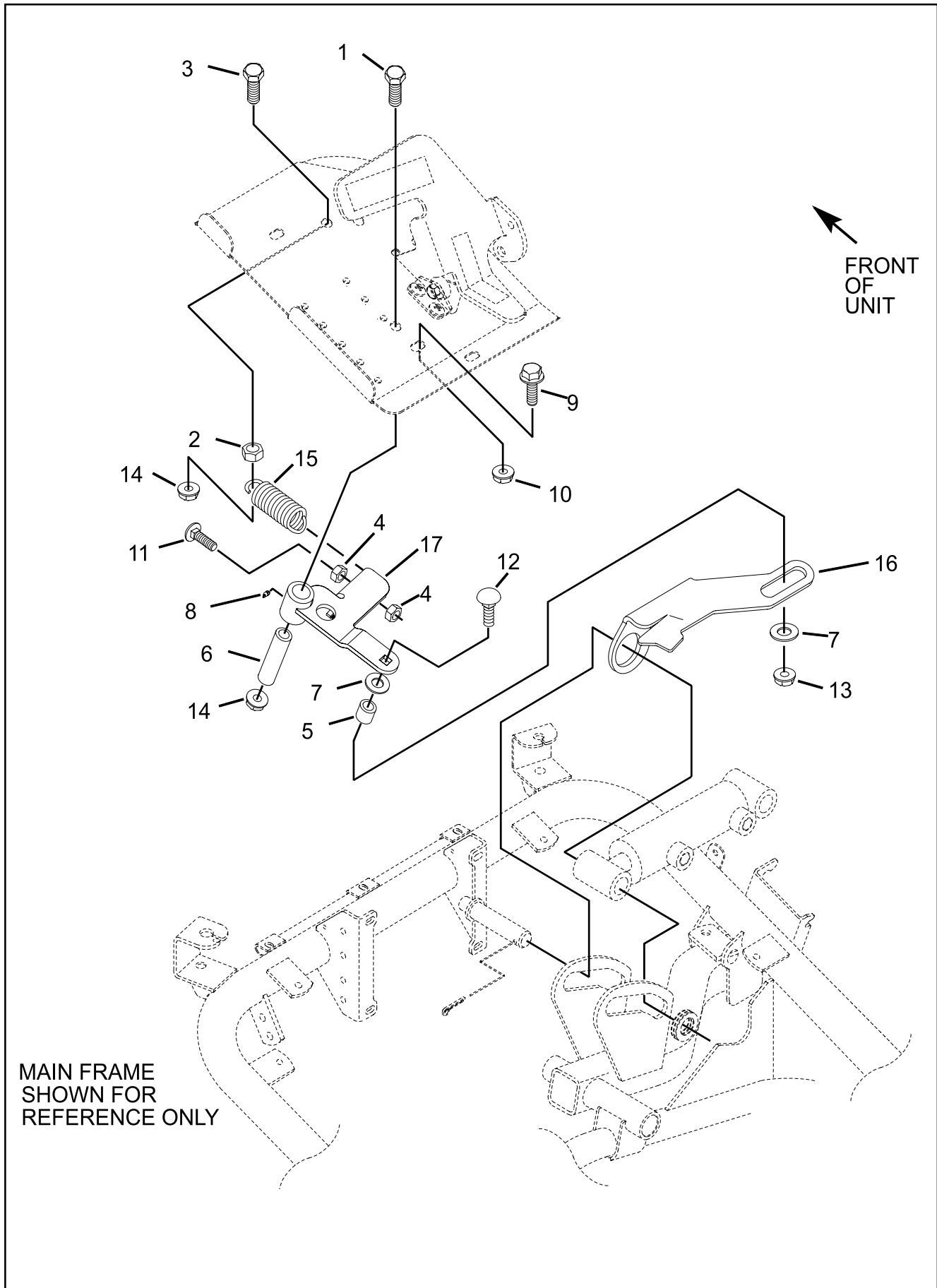
22 MOW / RAISE SWITCH AND SPEED CONTROL PEDAL



LIST OF PARTS

Parts-47

23 MOW SPEED CONTROL

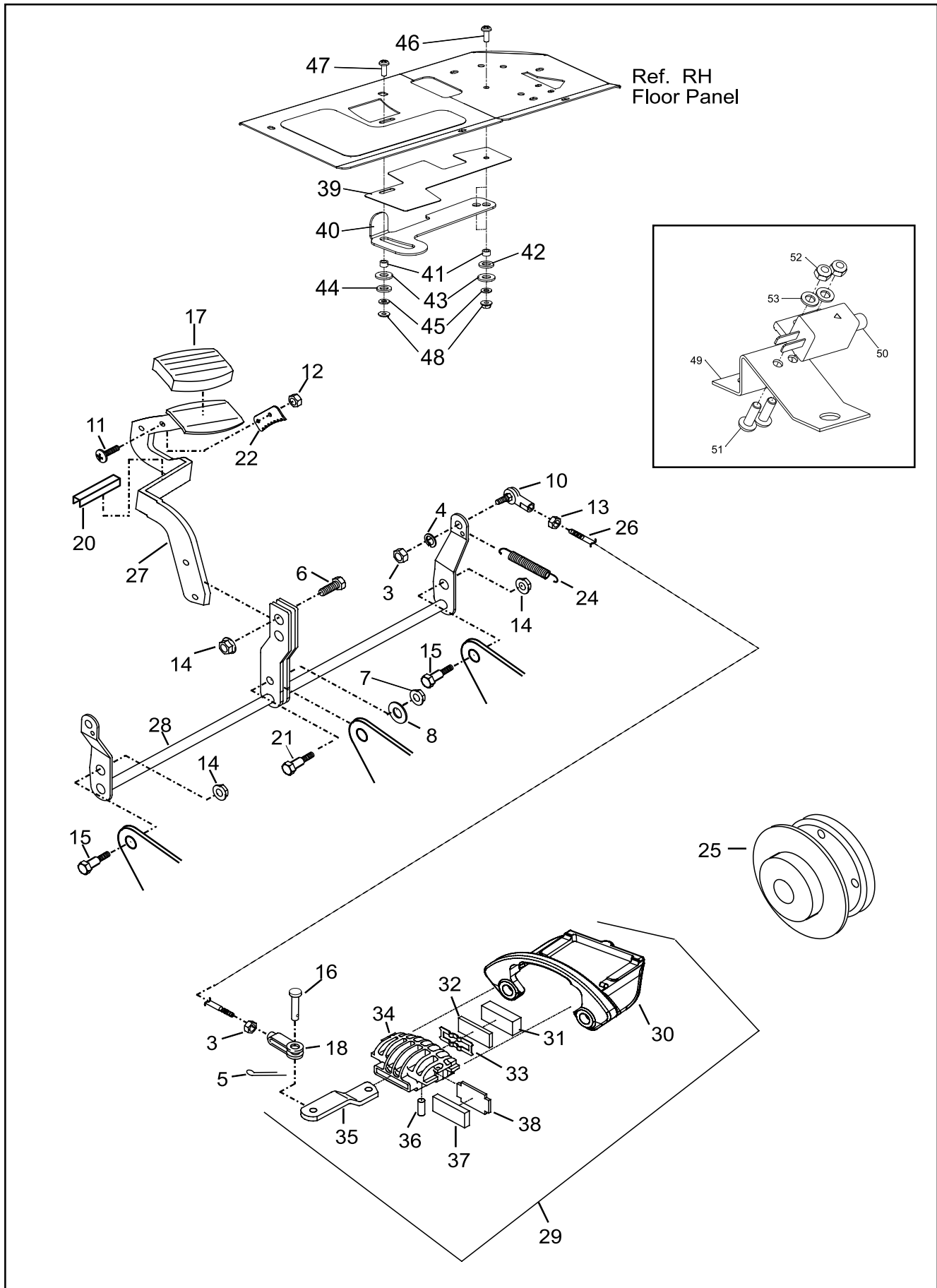


23 MOW SPEED CONTROL**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	A109001	Screw, 3/8-16 x 2	1	
2	450120039	Nut, 3/8-16	1	
3	456110448	Screw, 3/8-16 x 1 1/4"	1	
4	450324	Nut	2	
5	515268	Bushing	1	
6	523221	Spacer	1	
7	548159	Washer, 5/16 x 1 1/4	2	
8	A299306	Fitting, lube	1	
9	A119003	Screw, flangelock 5/16-18 x 3/4	1	
10	A139301	Nut, 5/16-18 flangelock	1	
11	452567	Bolt, carriage	1	
12	452564	Bolt, carriage	1	
13	450378	Nut, crownlock	1	
14	450120267	Nut, crownlock	2	
15	829500	Spring, extension	1	
16	841487	Angle, lockout link	1	
17	893359.06	Bellcrank, lockout assembly	1	

* Not Illustrated

24 BRAKE PEDAL

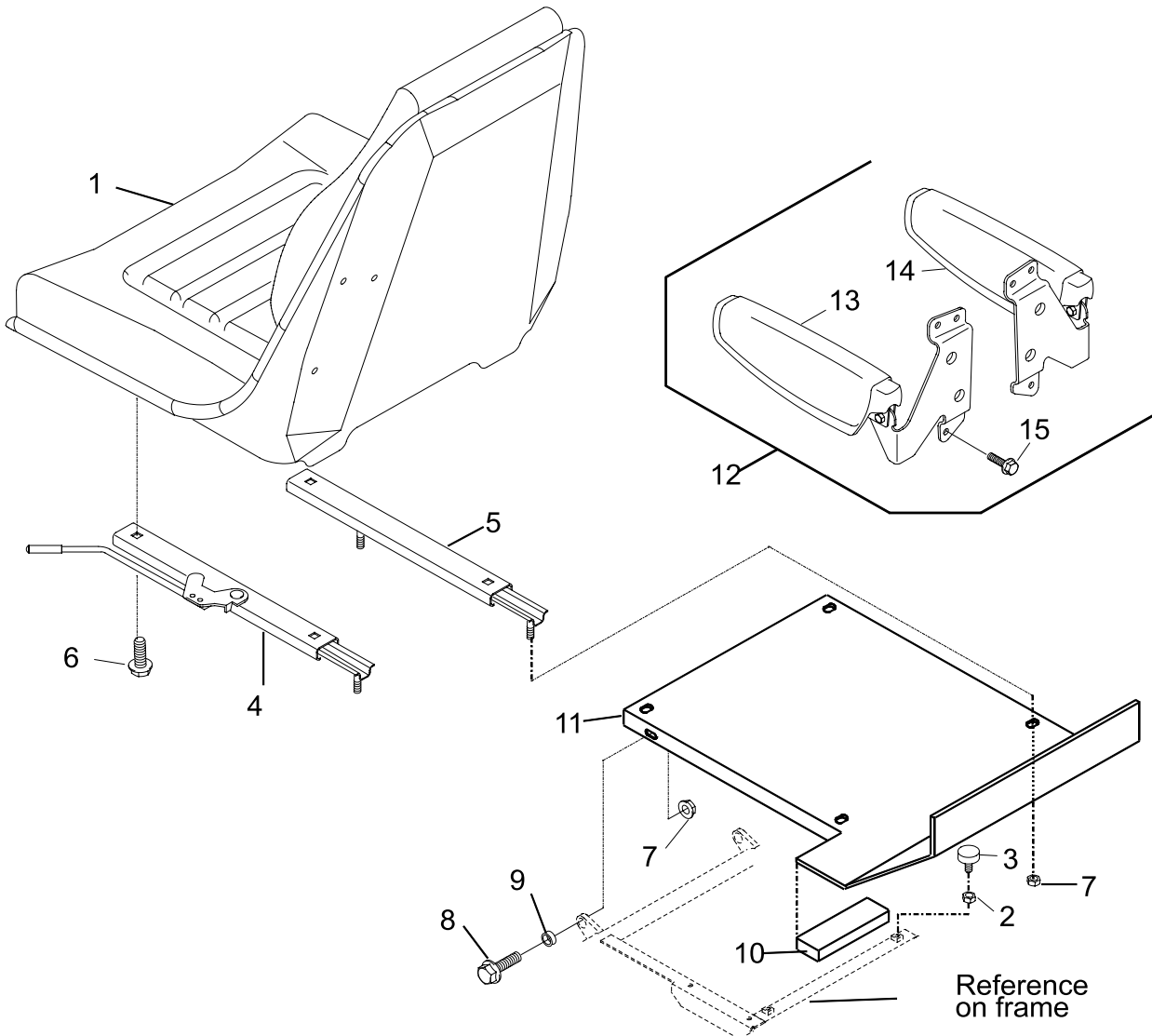


**JACOBSEN G PLEX III Series: DN & DP
MAINTENANCE AND PARTS MANUAL**
24 BRAKE PEDAL
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	450390	Washer M8,	1	Used Item 21.
3	450020053	Nut, 5/16-24	4	
4	450411	Lockwasher, M8"	2	
5	451255	Pin, cotter,	2	
6	451110134	Screw,	2	
7	450120398	3/8 UNC Thin Nyloc.	1	
8	452000326	Washer, 3/8"	1	
9	452101285	Washer, 1/2"	1	
10	523253	End	2	
11	800177	Screw, 5/16-18 x 3/4" Trus Hd.	3	
12	A139322	Nut, crownlock flange, 5/16-18	3	
13	450020249	Nut, left hand thread 5/16-24	2	
14	450120267	Nut, crownlock flange, 3/8-16	4	
15	800812	Bolt, shoulder, 3/8-16 x 1"	2	
16	806703	Pin, clevis, 5/16 x 1"	2	
17	4125972	Cover, footpedal	1	
18	810722	Yoke	2	
19	823332	Bushing	1	
20	829726	Trim, push on, 12'	AR	
21	A129100	Screw 3/8-16x1" Shoulder	1	
22	840420	Plate, latch	1	
23	MBG5293	Pawl, lock	1	
24	842598	Spring, extension	1	Brake switch Bracket
25	843160	Hub, wheel&disc	2	
26	843252	Rod, threaded 5/16-24	2	
27	4126019	Pedal, brake	1	
28	894166.06	Shaft, brake arm	1	
29	2188147	Brake, complete, LEFT	1	
	2188148	Brake, complete, RIGHT	1	
30	2188147-01	• Bracket	1	
31	2188147-02	• Brake pad-cam	1	
32	2188147-03	• Pad-support	1	
33	2188147-04	• Spring-lever retainer	1	
34	2188147-05	• Housing	1	
35	2188147-06	• Cam, LEFT	1	
	2188148-01	• Cam, RIGHT	1	
36	2188147-07	• Pin, pivot	1	
37	2188147-08	• Brake pad-carrier side	1	
38	2188147-09	• Pad-support	1	
39	4118010	Wear Plate	1	
40	4116522	Pawl Latch	1	
41	823332	Spacer	2	
42	111840	Wavey Washer, 1/2"	1	
43	452101285	Washer, 1/2"	2	
44	4119002	Crinkle Washer, M12	1	
45	450390	Washer, M8	2	
46	800177	Screw, 5/16-18 x 3/4"	1	
47	4119281	Screw 5/16-18 x 3/4"	1	
48	001393222	Flange Nut,, 5/16-18"	2	
49	MBG6914	Bracket Interlock switch	1	
50	W038383	Switch	1	
51	450528	Screw M5 x 16	2	
52	450376	Nut M5 Nyloc	2	
53	450388	Washer M5	2	
*	009057770	Brake Switch Lead	1	

* Not Illustrated

25 SEAT

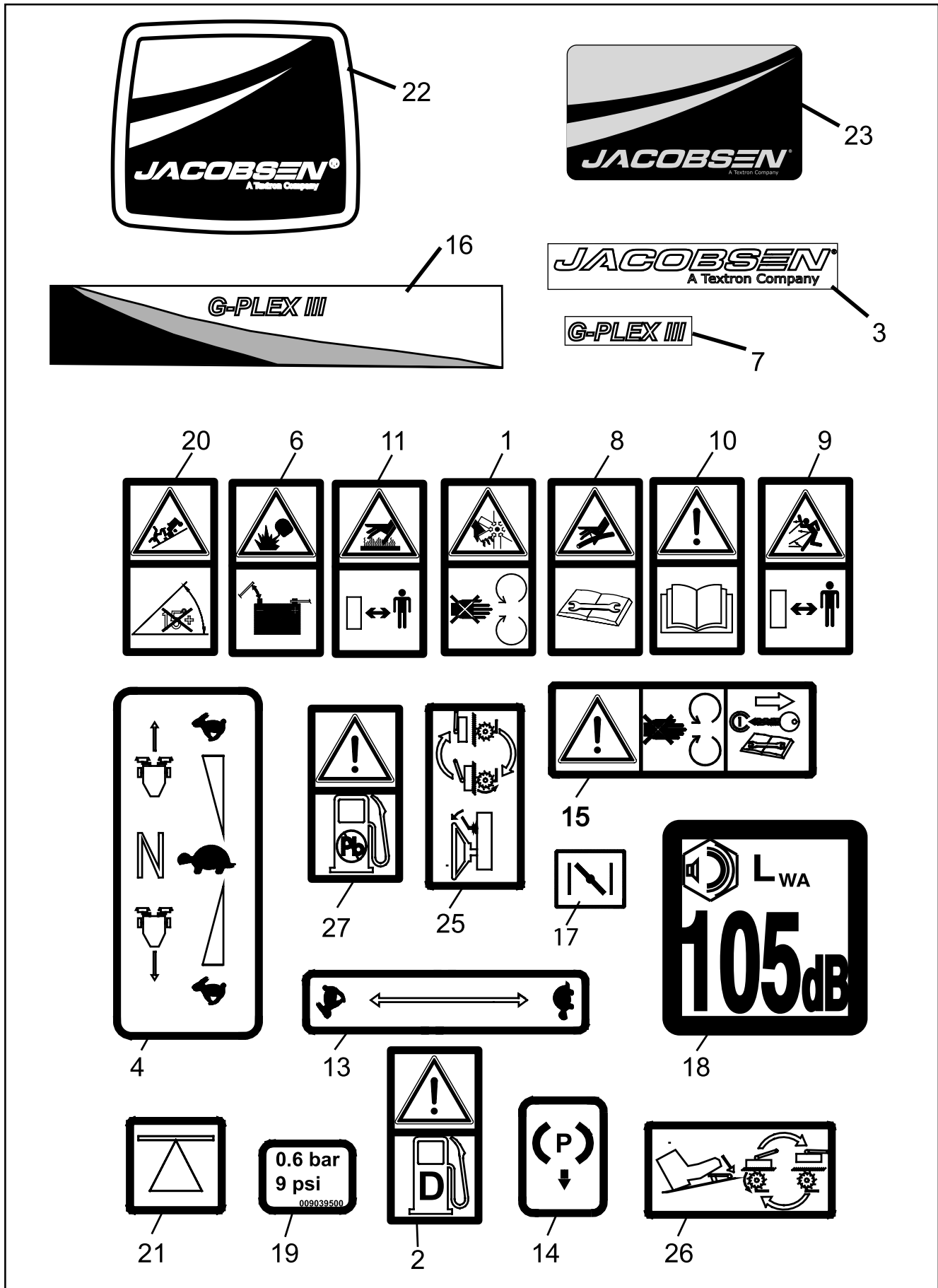


25 SEAT
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	4133662	Seat	1	
2	306932	Nut, 5/16-18	2	
3	523224	Bumper, rubber	2	
4	523356	Adjuster, seat wihandle (left)	1	
5	523357	Adjuster seat (right)	1	
6	A119003	Screw, flanglok, 5/16-18 x 3/4"	4	
7	A139322	Nut, crowniock flange, 5/16-18	6	
8	456110359	Screw, flange, 5/16-18 x 1"	2	
9	823332	Bushing	2	
10	833851	Seal	1	
11	842933 .06	Panel, seatbase	1	
12	2196054	Arm Rest Set (accessory)	1	
13	198059	• Arm Rest (left)	1	
14	198066	• Arm Rest (right)	1	
15	548604	• Screw, flnglck, 5/16-18 x 3/4"	6	

* Not Illustrated

26 DECALS

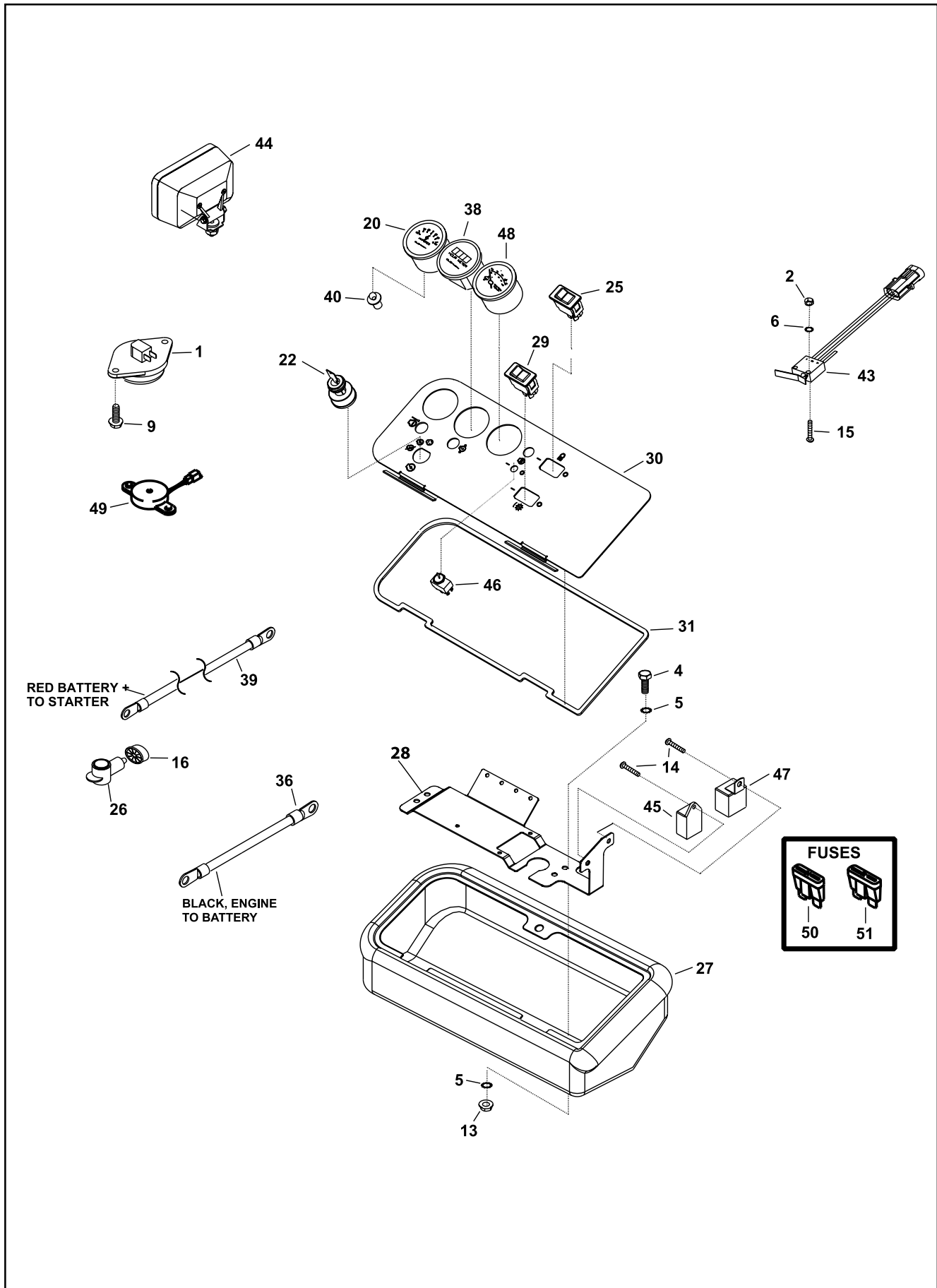


26 DECALS
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	A903488	Decal - Fan	1	Steering Wheel Centre Steering Column
2	009114340	Decal - Diesel	1	
3	4124007	Decal - Jacobsen	2	
4	840065	Decal - Speed Ctrl	1	
6	A911410	Decal - Battery	1	
7	4124190	Decal - G-plex III	1	
8	A903493	Decal - Hyd Press Leak	1	
9	A903489	Decal - Bystander	1	
10	A903491	Decal - Instruction	1	
11	A903492	Decal - Hot	1	
13	838363	Decal - Throttle	1	
14	838367	Decal - Parking Brake 'P'	1	
15	840748	Decal - Remove Ignition Key	1	
16	4123912	Decal - G-Plex III with Swoosh	1	
17	009039640	Decal - Choke	1	
18	A903477	Decal - Noise 105	1	
19	A903950	Label - Tyre Pressure	3	
20	A911416	Decal - Slope 15 Deg	1	
21	A911430	Decal - Jacking Point	3	
22	4124005	Decal - Jacobsen	1	
23	4124182	Decal - Jacobsen	1	
24	A911546	Decal - Textron	2	
25	A293952	Decal - Paddle Control	1	
26	A923953	Decal - Footswitch.	1	
27	A911424	Decal - Lead Free Gasoline	1	

* Not Illustrated

27 CONTROL PANEL AND ELECTRICAL COMPONENTS DIESEL

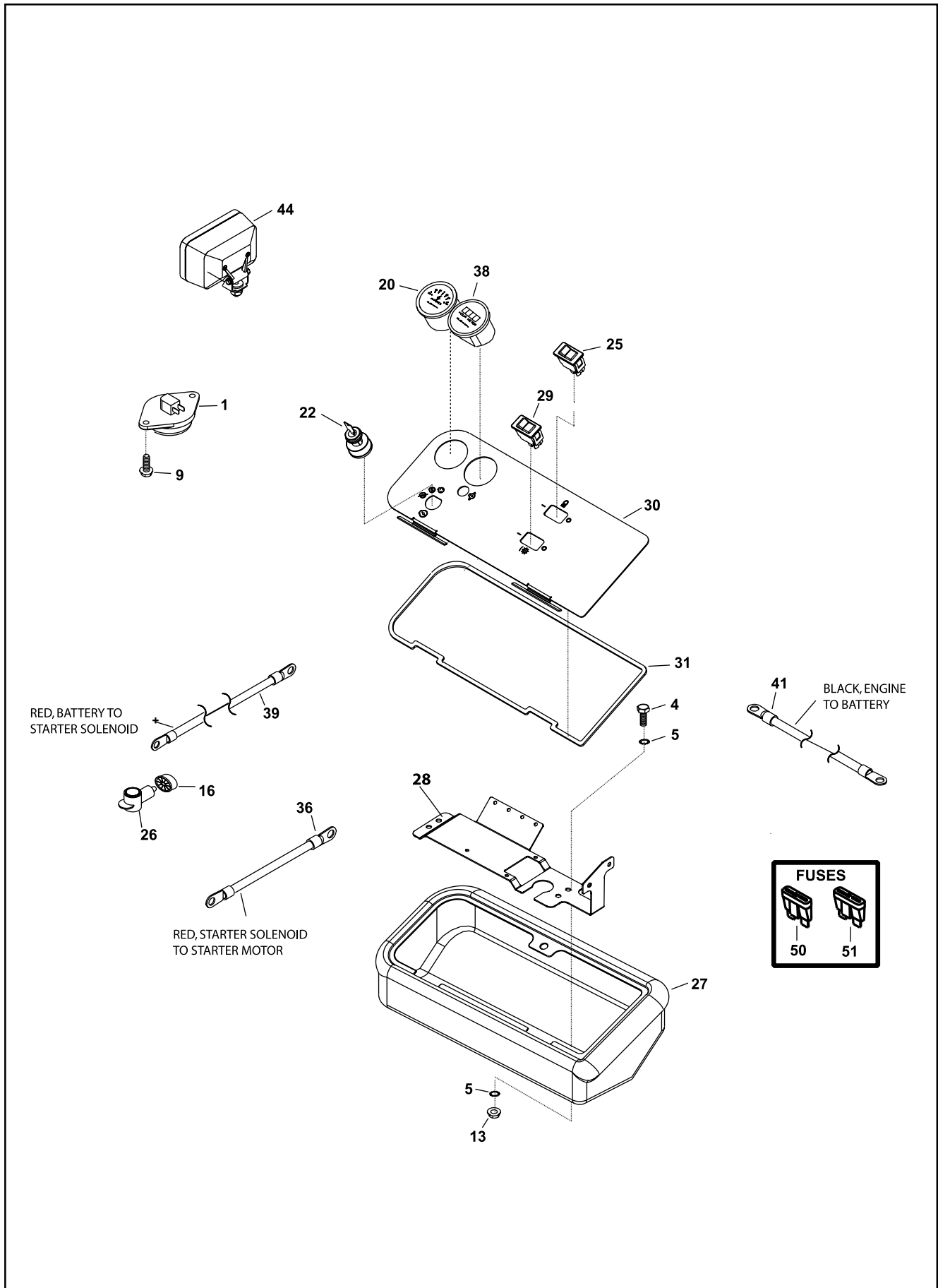


27 CONTROL PANEL AND ELECTRICAL COMPONENTS DIESEL LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	W158135-01	Switch, seat	1	BRITAX 511-024 USED ITEM 25/29
2	A182003	Nut, M3	2	
4	456110359	Screw, 5/16-18 x 1"	4	
5	A159410	Lockwasher, 5/16"	8	
9	548045	Screw, 1/4-20 x 3/4"	2	
13	A139301	Nut, flange lock 5/16-18	4	
15	A800955	Screw, #6-32 x 3/4"	2	
16	A825917	Grommet	2	
20	A828913	Gauge, Volt	1	
22	A828912	Switch, ignition	1	
25	A829546	Main-Dip Beam Switch	1	
*	A829566	Lens Insert	1	
26	A841895	Cover, Battery Terminal	1	
27	A843612.07	Housing, instrument	1	
28	4123645	Bracket, instrument	1	
29	A829599	Reel Enable	1	
30	4124217	Panel, instrument (DIESEL)	1	
31	A844294	Gasket, instrument panel	1	
36	4124765	Wire, black ground engine	1	
38	A810966	Gauge, hour meter	1	
39	A905037	Wire, red, battery to starter	1	
40	A823270	Bulb	1	
42*	4124360	Harness, main wire	1	
42A	4124361	Harness, Paddle Switch	1	
43	A894521	Switch, NO lever	1	
44	A823264	Headlight	2	
45	A824985	Timer, lamp 12VDC	1	
46	A828926	Switch, Pre-Heat	1	
47	A840002-1	Timer, Fuel shut off	1	
48	A828911	Gauge, water temperature	1	
49	A824999	Buzzer	1	
50	A826000	Fuse, 20 amp	4	
51	A833038	Fuse, 30 amp	1	
52*	A907933	Adj. Grip Latch (Southco)	2	
53*	MBG5090A	Pod Support	2	

* Not Illustrated

28 CONTROL PANEL AND ELECTRICAL COMPONENTS GASOLINE

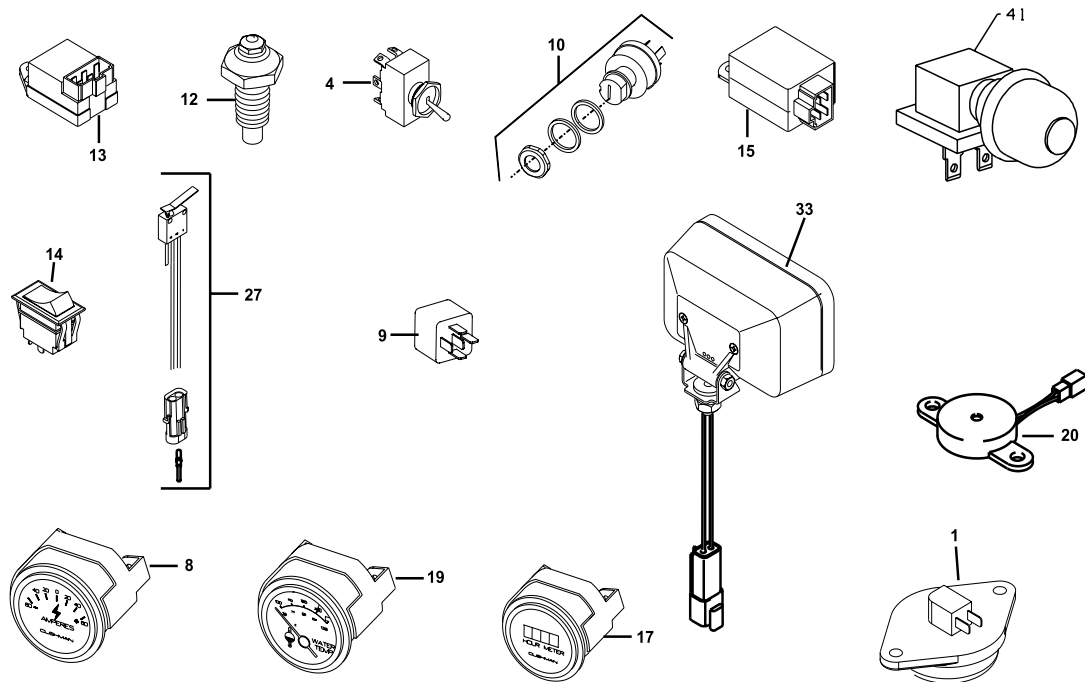


28 CONTROL PANEL AND ELECTRICAL COMPONENTS GASOLINE LIST OF PARTS

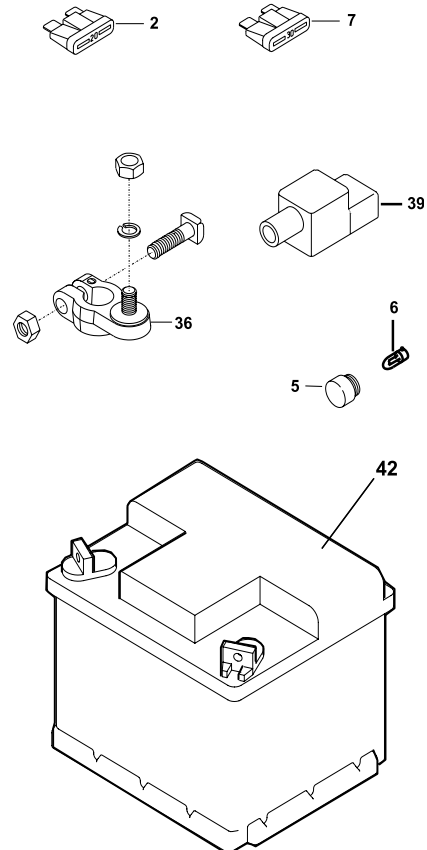
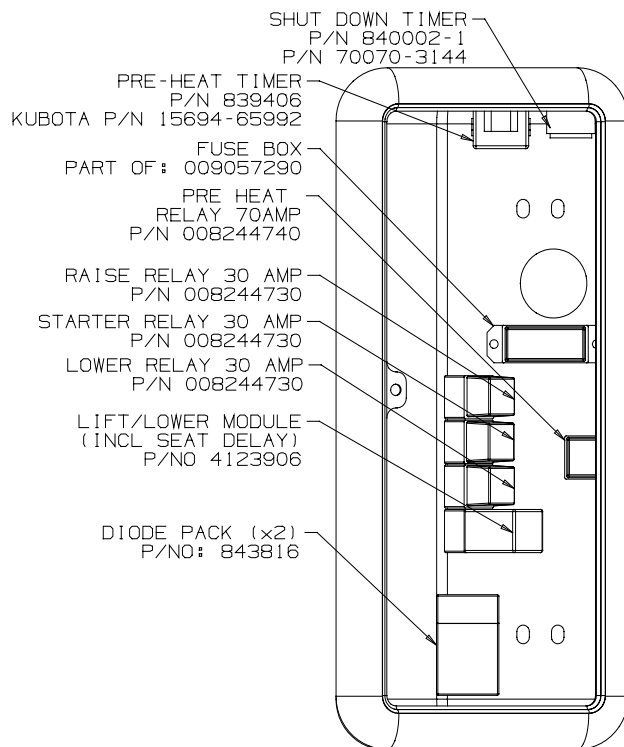
ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	W158135-01	Switch, seat	1	BRITAX 511-024 USED ITEM 25/29
4	456110359	Screw, 5/16-18 x 1"	4	
5	A159410	Lockwasher, 5/16"	8	
9	548045	Screw, 1/4-20 x 3/4"	2	
13	A139301	Nut, flange lock 5/16-18	4	
16	825917	Grommet	2	
20	A828913	Gauge, Volt	1	
22	A828912	Switch, ignition	1	
25	A829546	Main-Dip Beam Switch	1	
*	A829566	Lens Insert	1	
26	841895	Cover, Battery Terminal	1	
27	843612.07	Housing, instrument	1	
28	4123645	Bracket, instrument	1	
29	A829599	Reel Enable	1	
30	4123940	Panel, instrument (GASOLINE)	1	
31	844294	Gasket, instrument panel	1	
36	4124159	Wire, black ground chassis	1	
38	A810966	Gauge, hour meter	1	
39	4124157	Wire, red, battery to starter	1	
41	4124765	Wire, black ground engine	1	
42*	4123903	Harness, Complete	1	
42.1*	4123904	• Harness,	1	
42.2*	4123905`	• Harness,	1	
44	A823264	Headlight	2	
50	826000	Fuse, 20 amp	4	
51	833038	Fuse, 30 amp	1	
52*	A907933	Adj. Grip Latch (Southco)	2	
53*	MBG5090A	Pod Support	2	

* Not Illustrated

29 ELECTRICAL COMPONENTS DIESEL



G-PLEX III - DP SERIES CONTROL PANEL

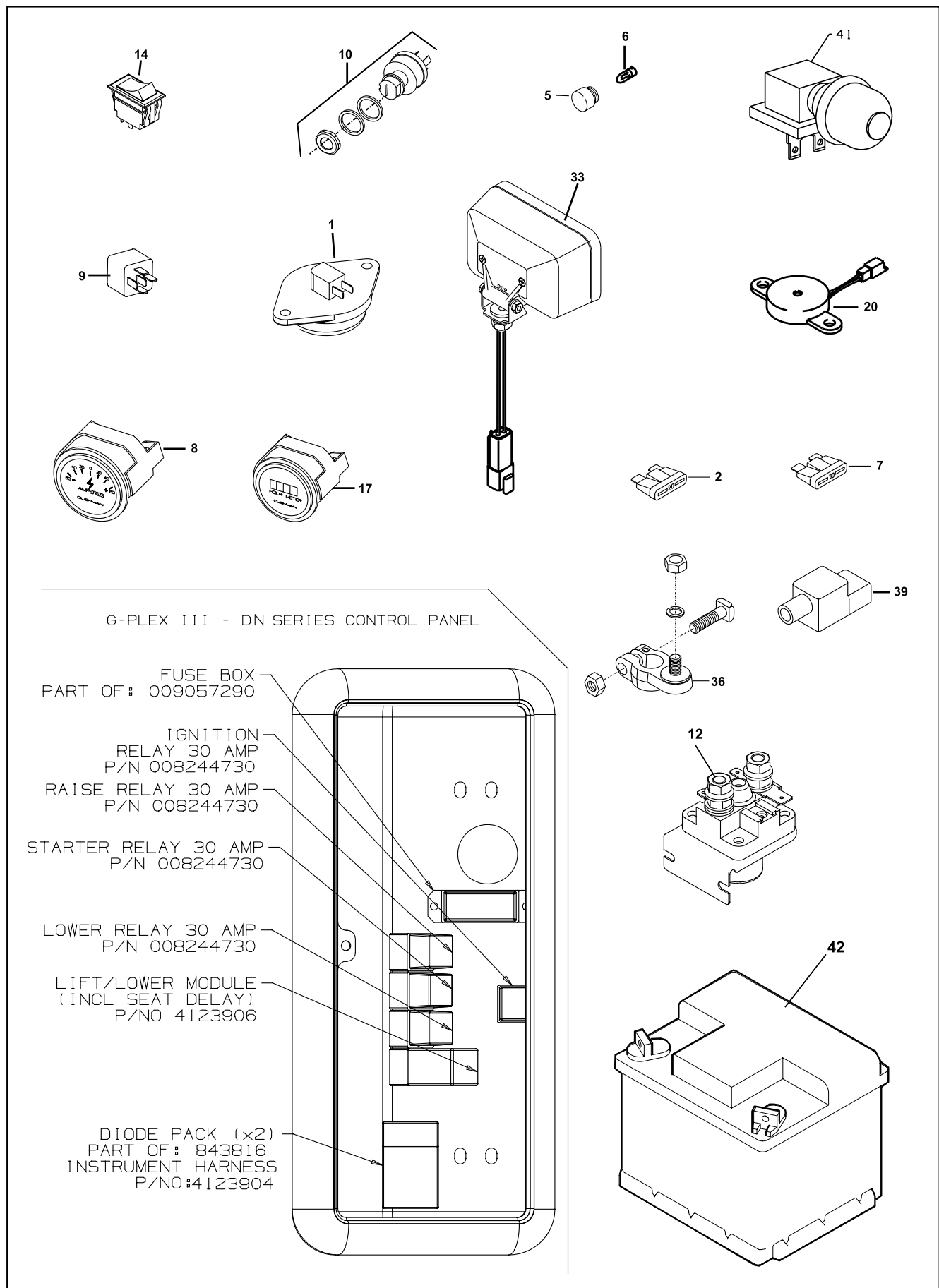


29 ELECTRICAL COMPONENTS DIESEL
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	W158135-01	Switch, seat	1	BRITAX 511-107 BRITAX 511-024 Used with Item 14
2	826000	Fuse, 20 amp	4	
4	A828926	Switch, Pre-Heat	1	
5	A823266	Lens	1	
6	A823267	Bulb	1	
7	833038	Fuse, 30 amp	1	
8	A828913	Gauge, Volt	1	
9	A824473	Relay, 30 amp	3	
10	A828912	Switch, ignition	1	
11	837298	• Spacer	2	
12	A828909	Sender	1	
13	A824985	Timer, lamp 1 2VDC	1	
14	A829599	Reel Enable	1	
*	A829546	Dip Beam Switch	1	
*	A829566	Lens Insert, Red	2	
15	894002-1	Timer Fuel Shut Off	1	
17	886802	Gauge, hour meter	1	
19	A828911	Gauge, water temperature	1	
20	A824999	Buzzer	1	
27	894521	Switch, NO (Backlap)	1	
33	894526	Headlight	2	
36	893395	Terminal, battery	1	
39	837462	• Boot, battery terminal	1	
41	2208099	Switch	2	
*	843816	Diode Circuit Board		
42	008230331	Battery type 093	1	

* Not Illustrated

30 ELECTRICAL COMPONENTS GASOLINE

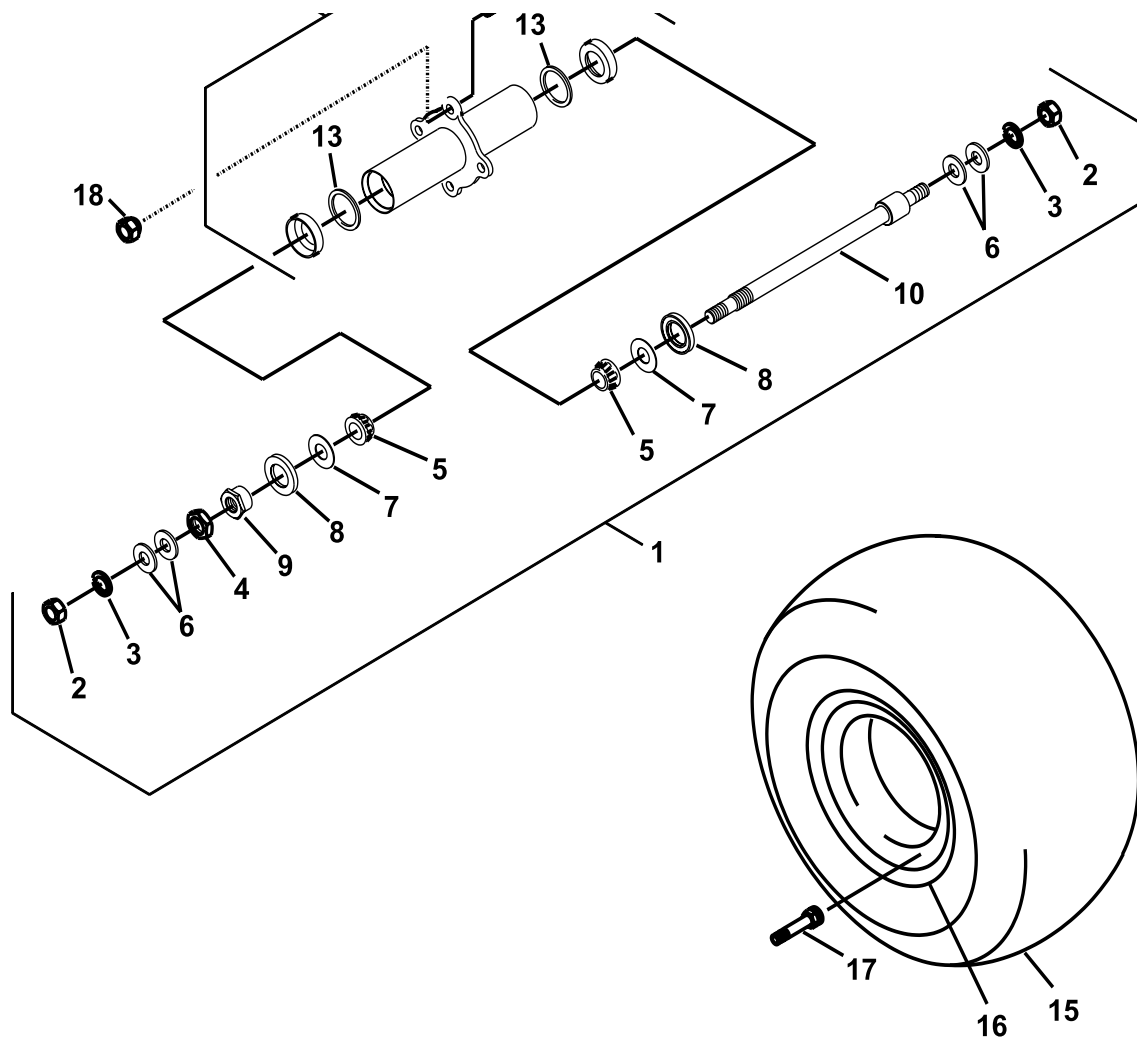


30 ELECTRICAL COMPONENTS GASOLINE
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	W158135-01	Switch, seat	1	BRITAX 511-107 BRITAX 511-024 Used with Item 14
2	826000	Fuse, 20 amp	4	
5	A823266	Lens	1	
6	A823267	Bulb	1	
7	833038	Fuse, 30 amp	1	
8	A828913	Gauge, Volt	1	
9	A824473	Relay, 30 amp	3	
10	A828912	Switch, ignition	1	
11	837298	• Spacer	2	
12	4124161	Starter Solenoid	1	
13	A824985	Timer, lamp 1 2VDC	1	
14	A829599	Reel Enable	1	
*	A829546	Dip Beam Switch	1	
*	A829566	Lens Insert, Red	2	
17	886802	Gauge, hour meter	1	
20	A824999	Buzzer	1	
33	894526	Headlight	2	
36	893395	Terminal, battery	1	
39	837462	• Boot, battery terminal	1	
41	2208099	Switch	2	
*	843816	Diode Circuit Board		
*	009057640	Wiring Harness - Paddle control	1	
42	008230331	Battery type 093	1	

* Not Illustrated

31 WHEELS AND REAR HUB

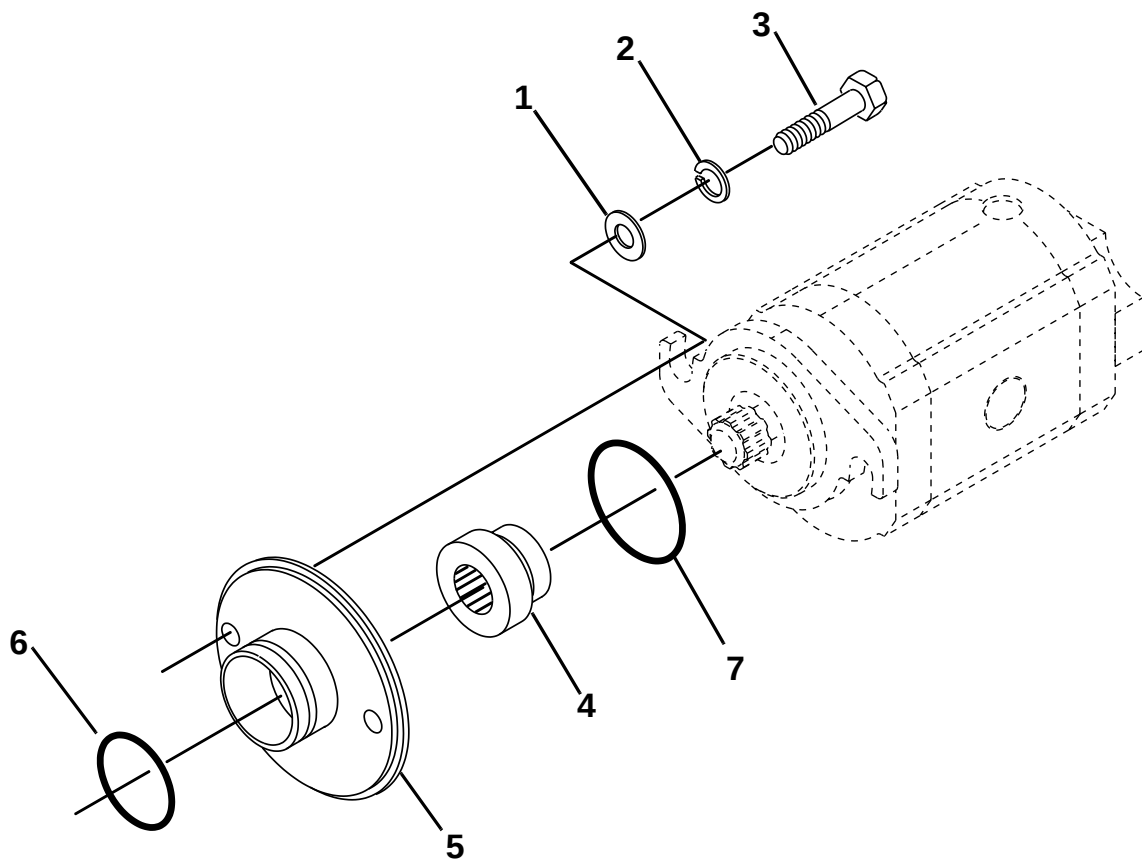


31 WHEELS AND REAR HUB
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	892225	Hub & Axle, complete	1	
2	450020338	• Nut, jam, 5/18-18	2	
3	450425	• Lockwasher, 5/8"	2	
4	450020354	• Nut, jam, 3/4-16	1	
5	889859	• Bearing, Assy	2	
6	452101293	• Washer, 5/8"	4	
8	836621	• Seal, oil	2	
9	836719	• Nut, bearing adj	1	
10	889843	• Axle	1	
11	892171.07	• Hub	1	
13	809268	• • Ring, bearing backing	2	
14	A815516	• • Screw, 7/16-20 x 11/8"	4	
15	893184	Tyre, 20x10.00-10	1	
16	892687	Rim, 10 x 8.50	1	
17	886735	Valve Stem	1	
18	450990638	Nut, wheel mounting	4	Torque 65Nm
19	A299306	Lubricator -M6 x 45 Deg.	1	
20*	64220-01	Wheel Bolt 1/2"	8	FRONT WHEELS Torque 65Nm

* Not Illustrated

32 MOTOR MOUNTING

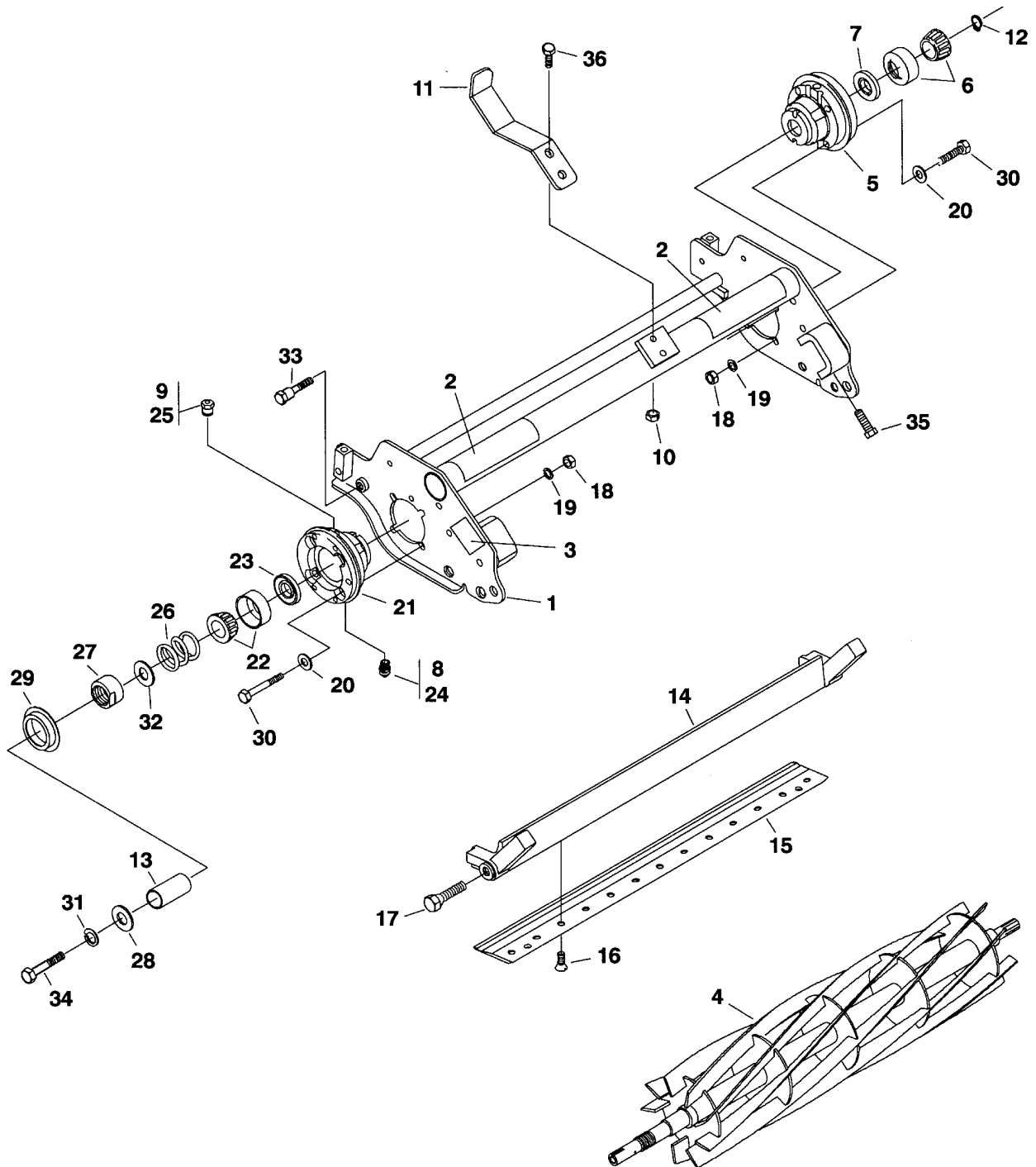


32 MOTOR MOUNTING**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	894991	Reel Motor Adaptor Kit	1	
2	103867	• Flat Washer 5/16	2	
3	306325	• Lockwasher 5/16	2	
4	306501	• Screw 5/16-18 x 1 1/2	2	
5	337370	• Coupling, Drive	1	
6	845278	• Adaptor Plate	1	
7	845279	• Seal, O Ring 1.49 ID x 0.07	1	
	845280	• Seal, O Ring 1.99 ID x 0.07	1	

* Not Illustrated

33 CUTTING HEAD



JACOBSEN G PLEX III Series: DN & DP MAINTENANCE AND PARTS MANUAL

33 CUTTING HEAD

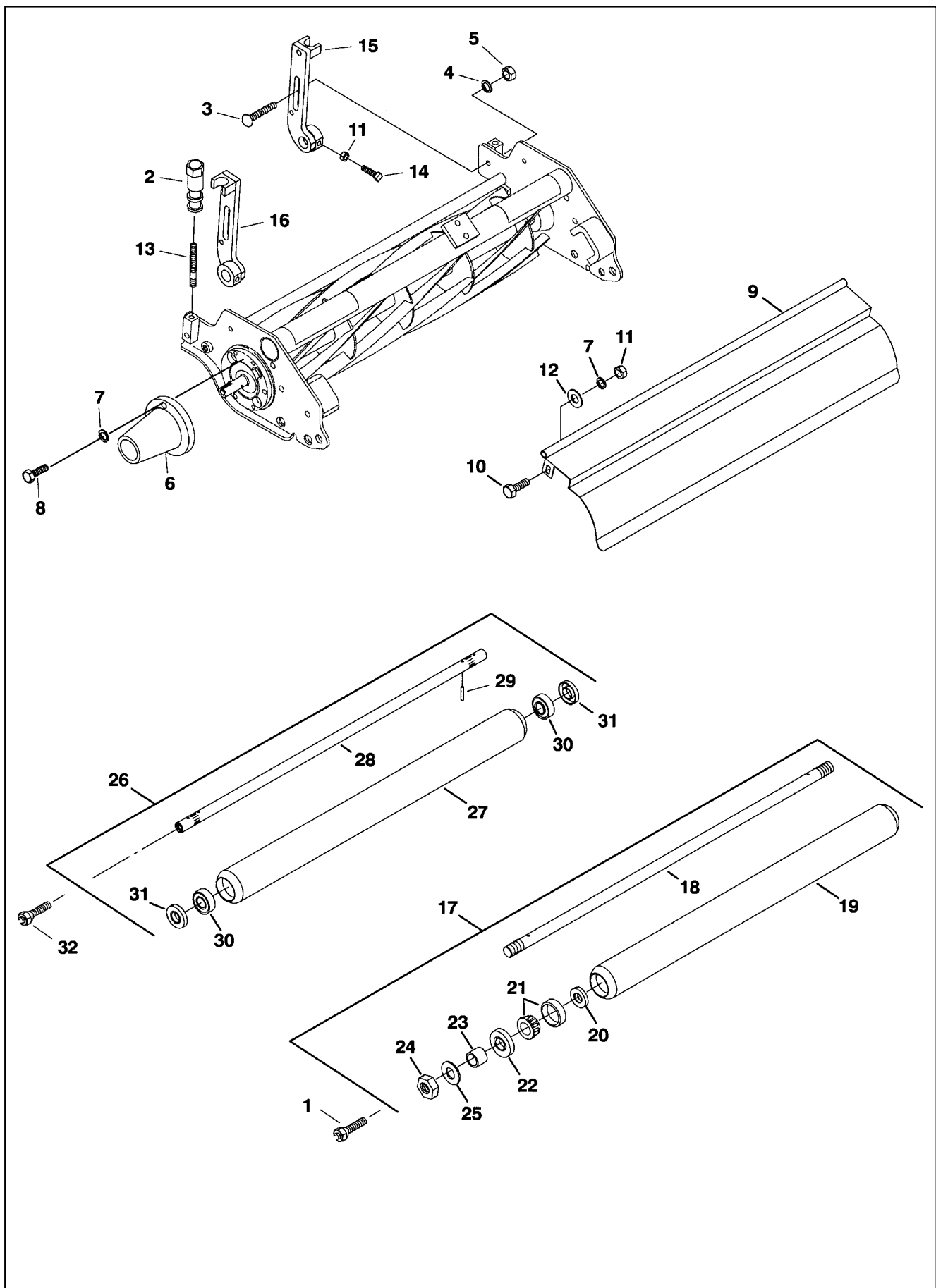
LIST OF PARTS

Model 67135 - 11 Blade
67136 - 9 Blade
67137 - 7 Blade

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	5003577	Frame, Reel	1	
2	361877	• Decal, Danger	2	
3	1000997	• Decal, Warning	1	
4	5003053	7 Blade Reel 67037 Only	1	
4	5001099	9 Blade Reel 67038 Only	1	
4	5001101	11 Blade Reel 67024 Only	1	
5	1004756	Bearing Housing	1	
6	500534	• Bearing, Cup and Cone	1	
7	336962	• Seal, Grease	1	
8	471214	• Lubricator	1	
9	471240	• Fitting, Vent	1	
10	445795	• Locknut, 15/16-18 Spiralock	2	
11	3010293	Stop, Mower	1	
12	458013	Snap Ring	1	
13	367164	Spacer	1	
14	5000415	Bedknife Backing	1	
15	5002771	Bedknife, Fairway	1	7 Blade
	503477	Bedknife, High Profile	1	9 & 11 Blade
	503478	Bedknife, Low Profile	1	9 & 11 Blade
	503479	Bedknife, Tournament	1	9 & 11 Blade
16	3009138	Screw, 1/4-20 x 1/2" Flat Head	13	
17	315298	Bolt, 7/16 x 3/4"	2	
18	446136	Lockwasher 5/16"	8	
19	443106	Nut, 5/16-18 Hex	8	
20	453009	Flat Washer, 5/16	4	
21	1000480	Bearing Housing	1	
	2000060	• Housing	1	
22	500534	• Bearing, Cup and Cone	1	
23	336962	• Seal, Grease	1	
24	471214	• Grease Fitting	1	
25	471240	• Vent Fitting	1	
26	5002151	Spring, Compression	1	
27	364900	Nut, Reel	1	
28	453011	Flat Washer, 3/8	1	
29	163892	Seal	1	
30	400192	Screw, 5/16-18 x 1-1/2" Hex Head	8	
31	446142	Lockwasher, 3/8 Heavy	1	
32	304745	Washer	1	
33	365246	Bolt, Shoulder	1	
34	400294	Screw, 3/8-24 x 1" Hex Head	1	
35	412503	Screw, 3/8-16 x 1-1/4"	4	Square Head
36	400184	Screw, 5/16-18 x 3/4" Hex Head	2	

* Not Illustrated

34 REAR ROLLERS



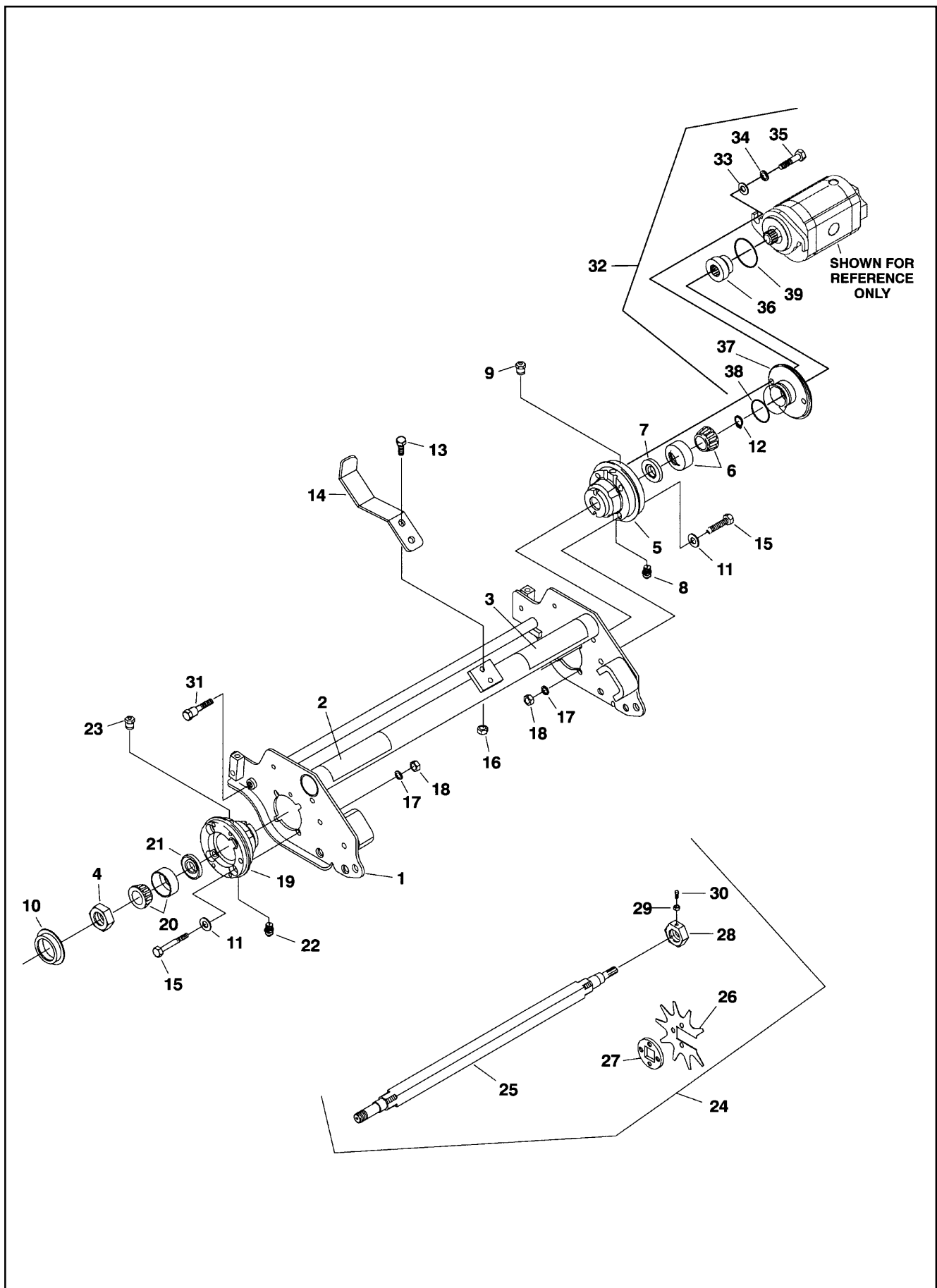
34 REAR ROLLERS
LIST OF PARTS

Model 67037
67038
67039

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	1002224	Zerk Bolt	2	7 Blade Reels
2	3005692	Knob, Front Roller Adjusting	2	
3	441674	Carriage Bolt, 5/16-18 x 1-3/4"	2	
4	446136	Lockwasher, 5/16"	2	
5	443106	Nut 5/16-18	2	
6	2000065	Casting, Counterweight	1	
7	446130	Lockwasher, 1/4 Heavy	4	
8	400110	Screw, 1/4-20 x 7/8" Hex Head	2	
9	2810043	Shield, Reel	1	
10	400018	Screw, 1/4-20 x 3/4"	2	
11	443102	Nut, 1/4-20 Hex	4	
12	453023	Washer, 1/4	2	
13	343616	Stud	2	
14	352737	Screw, 1/4-20 x 7/8" Square Head	2	
15	3008438	Roller Bracket, Right Side	1	
16	3008439	Roller Bracket, Left Side	1	
17	1000770	Roller, Rear	1	
18	3001654	• Shaft, Roller	1	
19	3001655	• Tube, Roller	1	
20	3001656	• Seal	2	
21	5000625	• Bearing	2	
22	300983	• Seal	2	
23	3001762	• Sleeve	2	
24	445718	• Locknut 5/16"	2	
25	3000698	• Washer	2	
26	162916	Roller, Rear	1	9 & 11 Blade Reels
27	5002814	• Tube, Roller	1	
28	345369	• Shaft, Roller	1	
29	461359	• Pin, Roll, 1/8" x 3/4"	2	
30	303558	• Bearing	2	
31	305115	• Seal	2	
32	1002226	Zerk Bolt	2	
	158568	Gauge, Bedknife (Not Shown)	1	

* Not Illustrated

35 VERTICUT HEAD



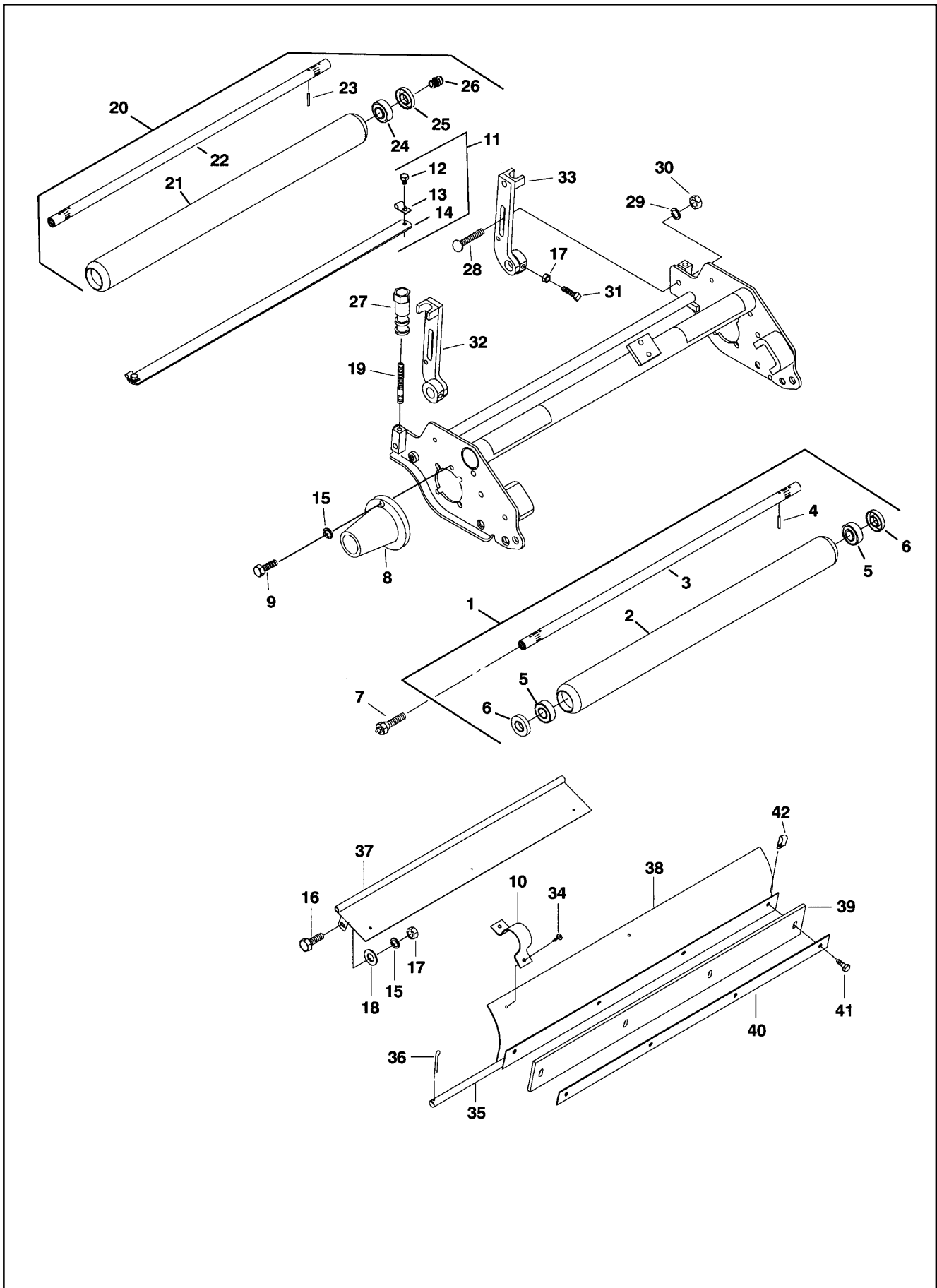
JACOBSEN G PLEX III Series: DN & DP
MAINTENANCE AND PARTS MANUAL
35 VERTICUT HEAD
LIST OF PARTS

Model 067138

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	5002577	Frame, reel	1	
2	361877	• Decal, danger	2	
3	351738	• Decal, caution	1	
4	444742	Locknut, 3/4-16 hex jam	1	
5	1004756	Housing, bearing	1	
6	500534	• Bearing, cup and cone	1	
7	336962	• Seal, grease	1	
8	471214	• Fitting, grease	1	
9	471240	• Fitting, vent	1	
10	1003467	Seal	1	
1	453009	Washer, 5/16"	4	
12	458013	Ring, snap	1	
13	400184	Screw, 5/16-18 x 3/4"	2	
14	3010293	Stop, mower	1	
15	400192	Screw, 5/16-18 x 1 1/2"	8	
16	445795	Nut, 5/16-18 spiralock flange	2	
17	446136	Lockwasher, 5/16"	8	
18	443106	Nut, 5/16-18	8	
19	1000480	Housing, bearing	1	
	2000060	• Housing	1	
20	500534	• Bearing, cup and cone	1	
21	336962	• Seal, grease	1	
22	471214	• Fitting, grease	1	
23	471240	• Fitting, vent	1	
24	1002560	Vertical mower	1	
25	131161	• Assembly, shaft and collar	1	
26	335449	• Blade	26	
27	352221	• Spacer, blade	77	
28	352437	• Nut, blade clamp	1	
29	443106	• Nut, 5/16-18	1	
30	412017	• Screw, 5/16-18 x 3/4", square head	1	
31	365246	Bolt, shoulder	2	
32	894991	Kit, motor adapter	1	Must have to mount vertical mower
33	103867	• Washer, 5/16	2	
34	306325	• Lockwasher, 5/16	2	
35	306501	• Screw, 5/16-18 x 1 1/2"	2	
36	337370	• Coupling, drive	1	
37	845278	• Adapter, motor	1	
38	845279	• Seal, o-ring, 1.49 i.d. x .07	1	
39	845280	• Seal, o-ring, 1.99 i.d. x .07	1	

* Not Illustrated

36 REAR ROLLER & SCRAPER VERTICUT



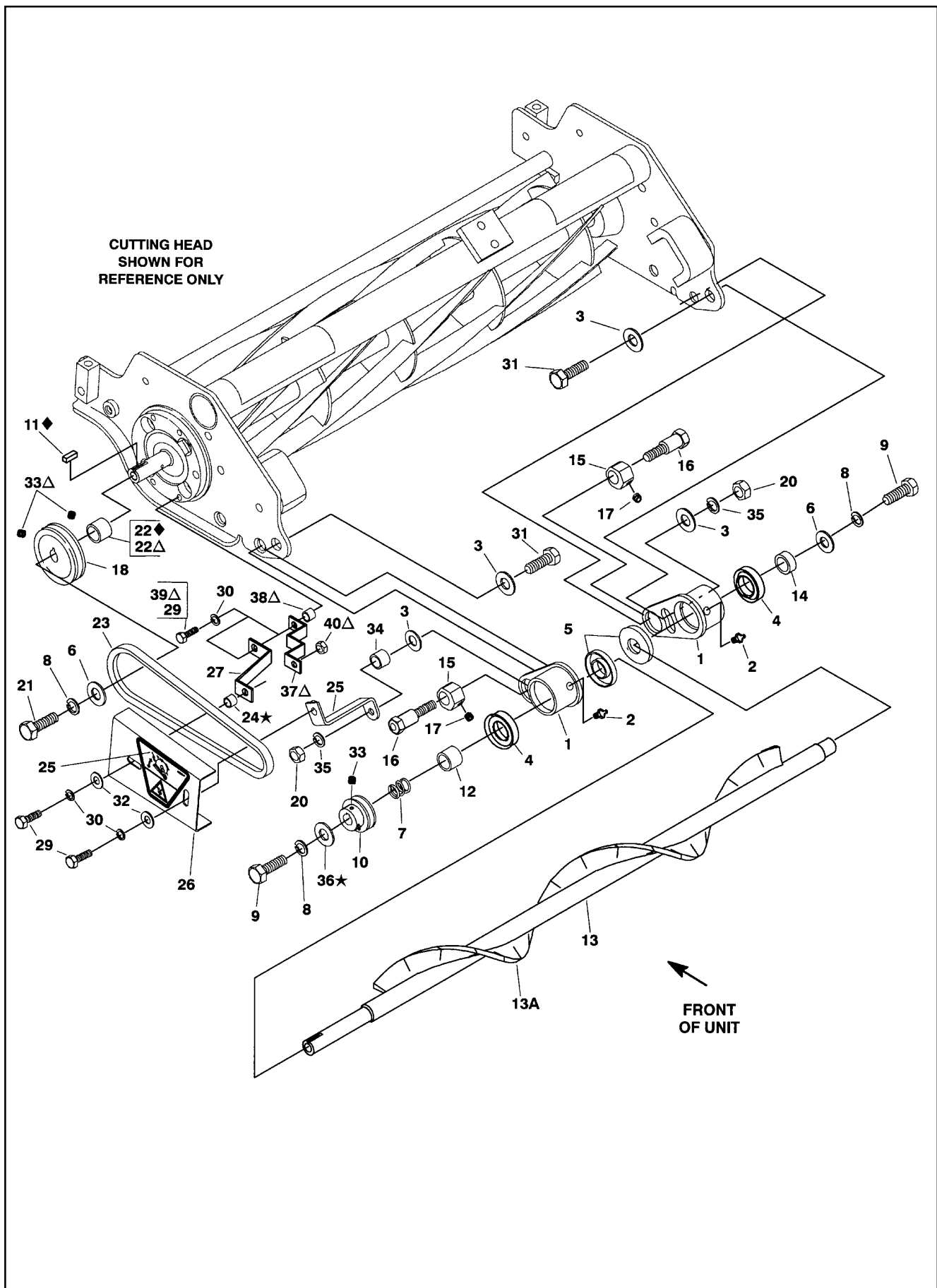
**JACOBSEN G PLEX III Series: DN & DP
MAINTENANCE AND PARTS MANUAL**
36 REAR ROLLER & SCRAPER VERTICUT
LIST OF PARTS

Model 067138

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	162916	Roller, rear	1	
2	5002814	• Tube, roller	1	
3	345369	• Shaft	1	
4	461359	• Pin, roll, 1/8 x 3/4"	2	
5	303558	• Bearing	2	
6	305115	• Seal	2	
7	1002226	Zerk bolt	2	
8	2000065	Casting, counterweight	1	
9	400110	Screw, 1/4-20 x 7/8"	2	
10	351520	Clip	3	
11	102024	Scraper, front roller	1	
12	407586	• Screw, 1/4-20 x 5/8", pan head	2	w/lockwasher
13		• Clamp	2	Not Serviced
14		• Bar, scraper	2	Not Serviced
15	446130	Lockwasher, 1/4"	4	
16	404018	Screw, truss head, 1/4-20 x 3/4"	2	
17	443102	Nut, 1/4-20	4	
18	453023	Washer, 1/4	2	
19	343616	Stud	2	
20	162917	Roller, front	1	
21		• Tube, roller	1	Not Serviced
22	305114	• Shaft	1	
23	461359	• Pin, roll, 1/8 x 3/4"	2	
24	303558	• Bearing	2	
25	305115	• Seal	2	
26	471214	• Fitting, grease	2	
27	3005692	Knob, front roller adjusting	2	
28	441674	Bolt, carriage, 5/16-18 x 1 3/4"	2	
29	446136	Lockwasher, 5/16	2	
30	443106	Nut, 5/16-18	2	
31	352737	Screw, square head, 1/4-20 x 7/8"	2	
32	3008438	Bracket, roller	1	
33	3008439	Bracket, roller	1	
34	409020	Screw, #10 x 3/8", self tap, slotted	6	
35	351521	Rod	1	
36	460026	Pin, cotter	2	
37	3009922.6	Shield, front grass	1	
38	3005373.6	Shield, rear grass	1	
39	351522	Scraper	1	
40	351526	Retainer, scraper	1	
41	400106	Screw, 1/4-20 x 5/8"	4	
42	445260	Nut, speed	4	

* Not Illustrated

37 ACCESSORY - ROTARY REAR BRUSH 068643



JACOBSEN G PLEX III Series: DN & DP MAINTENANCE AND PARTS MANUAL

37 ACCESORY - ROTARY REAR BRUSH 068643

LIST OF PARTS

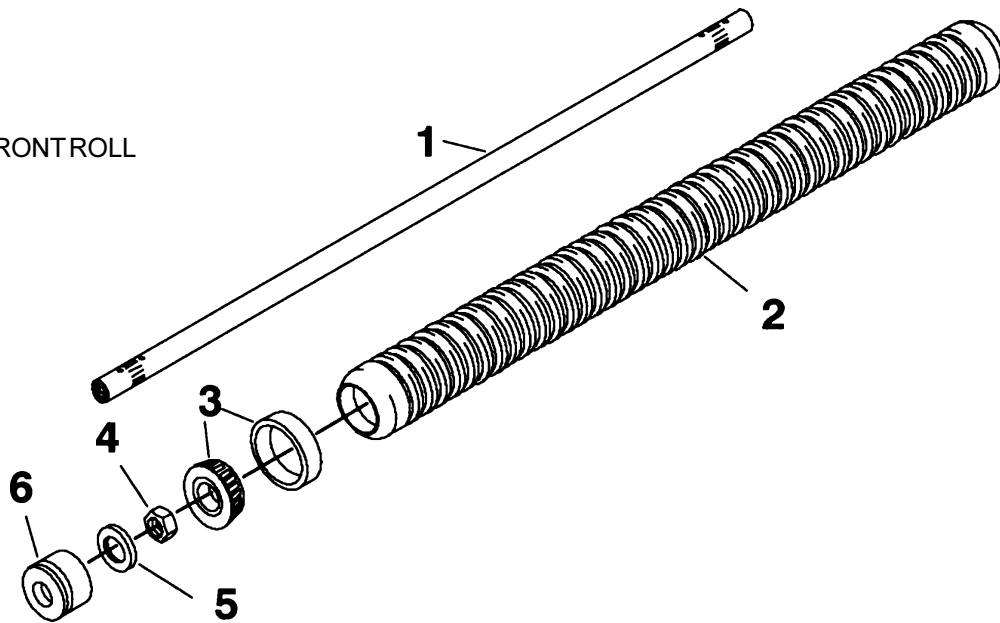
Model 067135
067136
067137

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	3007975	Bracket, bearing housing	2	
2	471514	Fitting, grease, 1/4-28	2	
3	452006	Washer, 5/16"	4	
4	365229	Bearing w/seal	2	
5	338763	Seal	2	
6	453011	Washer, 3/8"	2	
7	363818	Spring	1	
8	446142	Lockwasher, 3/8"	3	
9	400258	Screw, 3/8-16 x 3/4"	2	
10	340836	Pulley, brush shaft	1	
11	363016	Key, 1/8 x 1/8 x 1/2", parallel	2	
12	365294	Spacer, 1 1/8" long	1	
13	5002463	Brush assembly	1	
13A	340780	Brush replacement	1	
14	365293	Spacer, 9/64" long	1	
15	3008039	Nut, eccentric adjusting	2	
16	1002228	Bolt, roller mounting	2	
16	1002225	Bolt, roller mounting	2	Use with heavy duty rear roller
17	415509	Screw, set, 1/4-20 x 1/4"	2	
18	338758	Pulley, reel shaft	1	
19	400188	Screw, 5/16-18 x 1"	1	
20	443106	Nut, 5/16-18	2	
21	400298	Screw, 3/8-24 x 1"	1	
22	365295	Spacer, 27/32" long	1	Use with 5/8" dia. reel shaft
22	365302	Spacer, pulley	1	Use with 1/2" dia. reel shaft
23	364120	Belt	1	
24	3005971	Spacer, short	1	Use with turf groomer
25	1000997	Decal	1	
26	5001067	Shield, belt	1	
27	1002767	Brace, shield	1	Use with 5/8" dia. reel shaft
28	1002768	Brace, shield	1	
29	400108	Screw, 1/4-20 x 3/4"	3	
30	446130	Lockwasher, 1/4	3	
31	400194	Screw, 5/16-18 x 1 3/4"	1	
32	453023	Washer, 1/4"	2	
33	415522	Screw, set 5/16-18 x 3/8"	4	
34	3005970	Spacer, long	1	
35	446136	Lockwasher 5/16"	2	
36	452008	Washer, 7/16	1	Use with turf groomer
37	364124	Bracket	1	Use with 1/2" dia. reel shaft
38	3004410	Spacer, medium	1	Use with 1/2" dia. reel shaft
39	400112	Screw, 1/4-20 x 1"	1	Use with 1/2" dia. reel shaft
40	443102	Nut, 1/4-20	1	Use with 1/2" dia. reel shaft

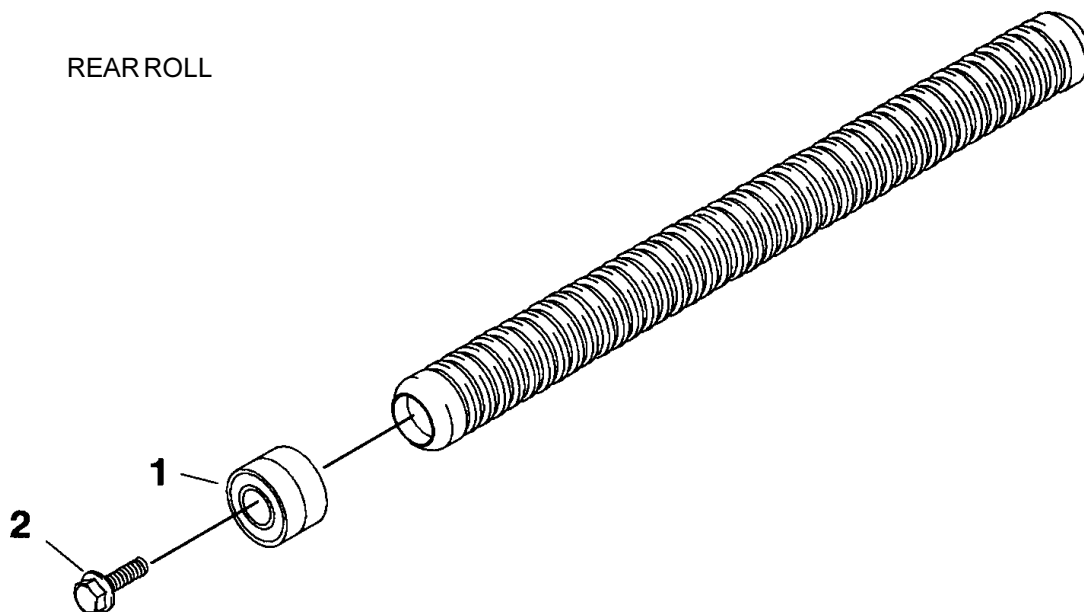
* Not Illustrated

38 FRONT & REAR ROLLS

FRONTROLL



REARROLL

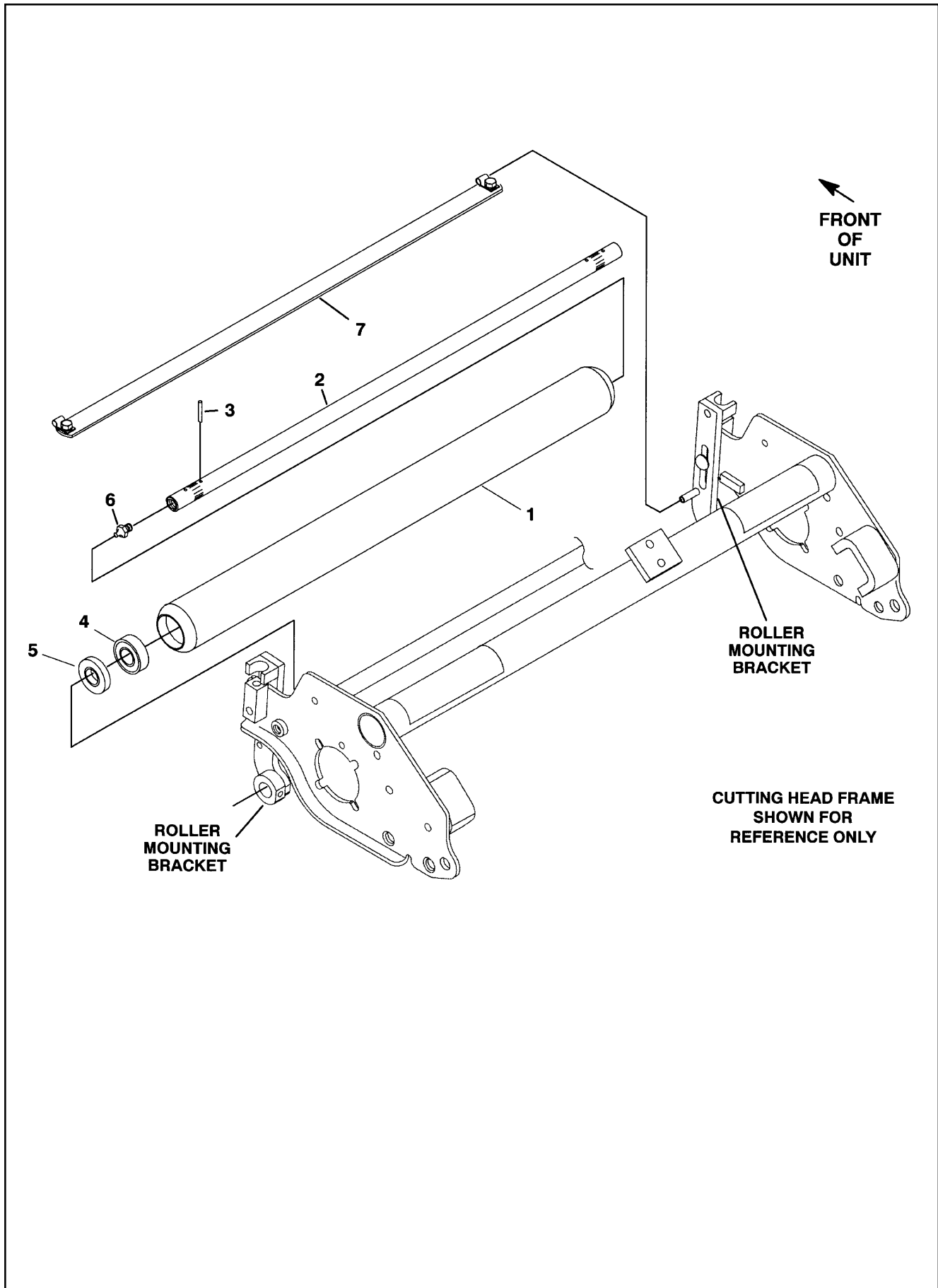


38 FRONT & REAR ROLLS
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
		FRONT ROLL		
	068613	Grooved Roll - Steel	1	
	068614	Grooved Roll - Aluminium	1	
1	3000012	• Shaft, rear roller	1	
2	3000013	• Roller, grooved (steel)	1	
2	3000394	• Roller, grooved (aluminum)	1	
3	503378	• Bearing, ball, cup and cone	2	
4	367029	• Locknut, 3/4-16 UNF	2	
5	3000026	• Seal, grease	2	
6	3000010	• Adapter, seal	2	Used with steel roller
6	3000543	• Adapter, seal	2	Used with aluminum roller
		REAR ROLL		
	068580	Grooved Roll	1	
1	364135	• Bearing, double row	2	
2	315298	• Bolt, wheel	2	

* Not Illustrated

39 FRONT ROLL 2" SMOOTH & SCRAPER



39 FRONT ROLL 2" SMOOTH & SCRAPER**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	162917	Front roller assembly, complete	1	
2	131426	• Roller, smooth (steel)	1	
3	102030	• Shaft, front roller assembly	1	
4	461359	• • Pin, roll 1/8 x 3/4	2	
5	303558	• Bearing	2	
6	305115	• Seal	2	
7	471214	• Fitting, grease	2	
	102024	• Scraper blade assembly		

* Not Illustrated

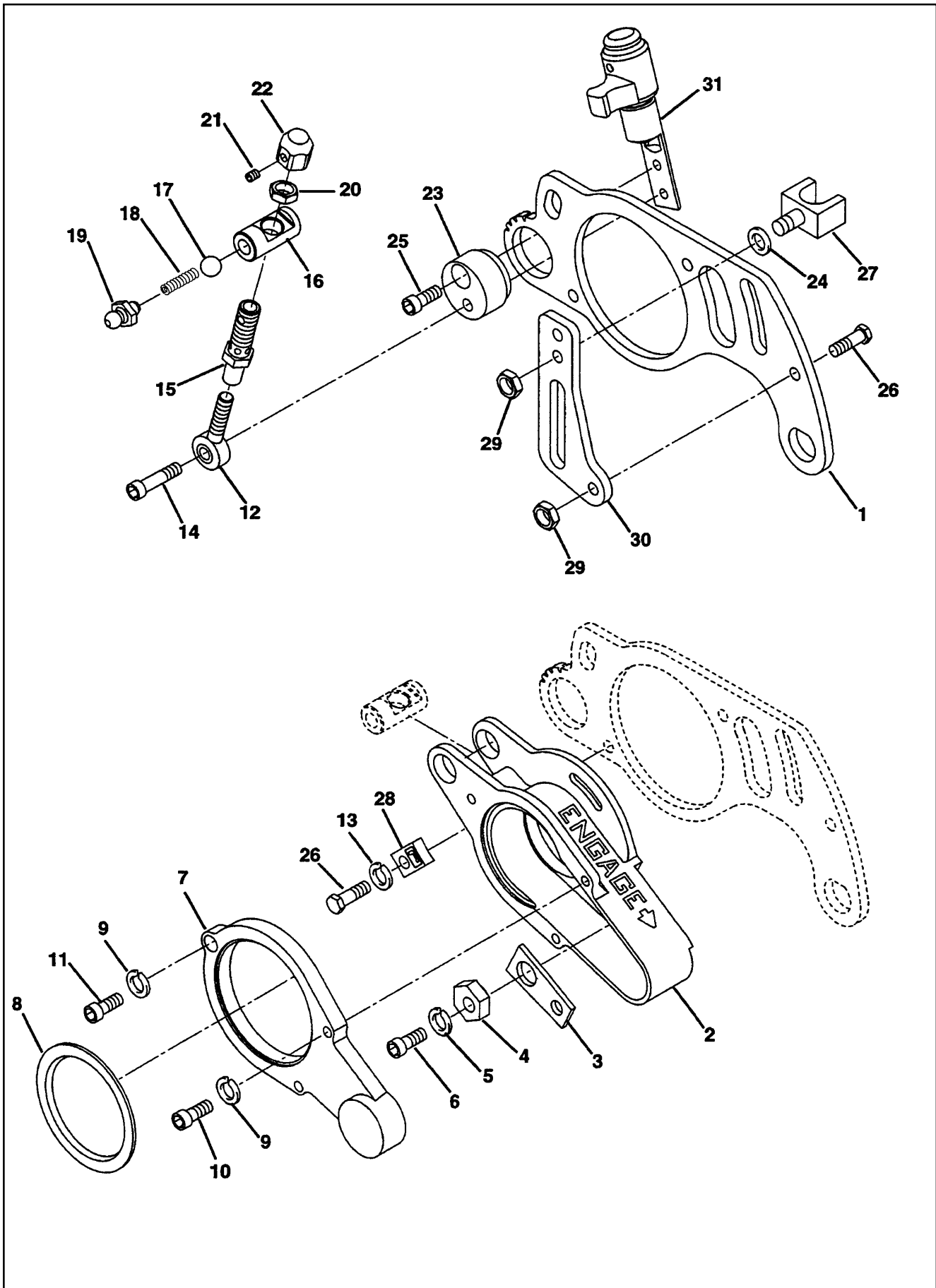
This technical drawing is an exploded view of a mechanical assembly, likely a pump or valve component. The main body of the assembly is shown in the center, with various parts numbered 1 through 37. The assembly includes a central shaft (1) with a pulley (23) at one end and a threaded rod (31) with a nut (28) at the other. A large, cylindrical component (36) is shown separately, with a threaded rod (35) passing through it. A bracket (34) is shown at the bottom right, with a pin (22) passing through it. A small, rectangular component (18) is shown at the top right. A callout 'A' is used to indicate specific parts or assemblies, and 'P/O 36' is used to indicate a specific part or assembly.

40 TURF GROOMER
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	365226	Plate, cover	1	
	132212	Pulley assembly	1	
2	365228	• Pulley, 28 groove	1	
3	365229	• Bearing, ball	2	
4	458461	• Snap ring	1	
5	365232	• Spacer	1	
6	365256	Spacer, pulley	1	
7	365239	Key, 1/8 x 1/8 x 7/16"	1	
8	446142	Lockwasher, 3/8"	2	
9	434030	Screw, 3/8-16 x 7/8", socket head	2	
10	365237	Spacer, grass catcher	2	
11	441672	Bolt, carriage, 5/16-18 x 2 1/2"	2	
12	364441	Spacer, 5/16"	4	
13	446136	Lockwasher, 5/16"	4	
14	443106	Nut, 5/16-18	2	
15	365246	Bolt, 3/8-16, nyloc shoulder	2	
16	365341	Washer, special	2	
17	434031	Screw, 1/4-20 x 3/4", socket head	2	
18	365240	Decal, turf groomer	1	
19	365343	Guide, wheel	2	
20	400184	Screw, 5/16-18 x 3/4"	2	
21	365409	Spacer, roller	As Req'd	
22	3005515	Spacer, driven assembly .02"	As Req'd"	
		Clutch assembly	1	
23	163776	• Pulley assembly	1	
24	338768	• Seal, grease	1	
25	365272	• Spring	2	
26	365258	• Pin	2	
27	365254	• Shaft, stub	1	
28	241817	• Knob, clutch	1	
29	363841	• Washer	1	
30	446142	• Lockwasher, 3/8"	1	
31	365257	• Bolt	1	
32	471214	• Fitting, grease, 1/4-28	1	
33		Drive assembly	1	See breakdown
34		Driven assembly	1	See breakdown
35		Blade assembly	1	See breakdown
36		Roller assembly	1	See breakdown
37	365235	Belt, drive	1	

* Not Illustrated

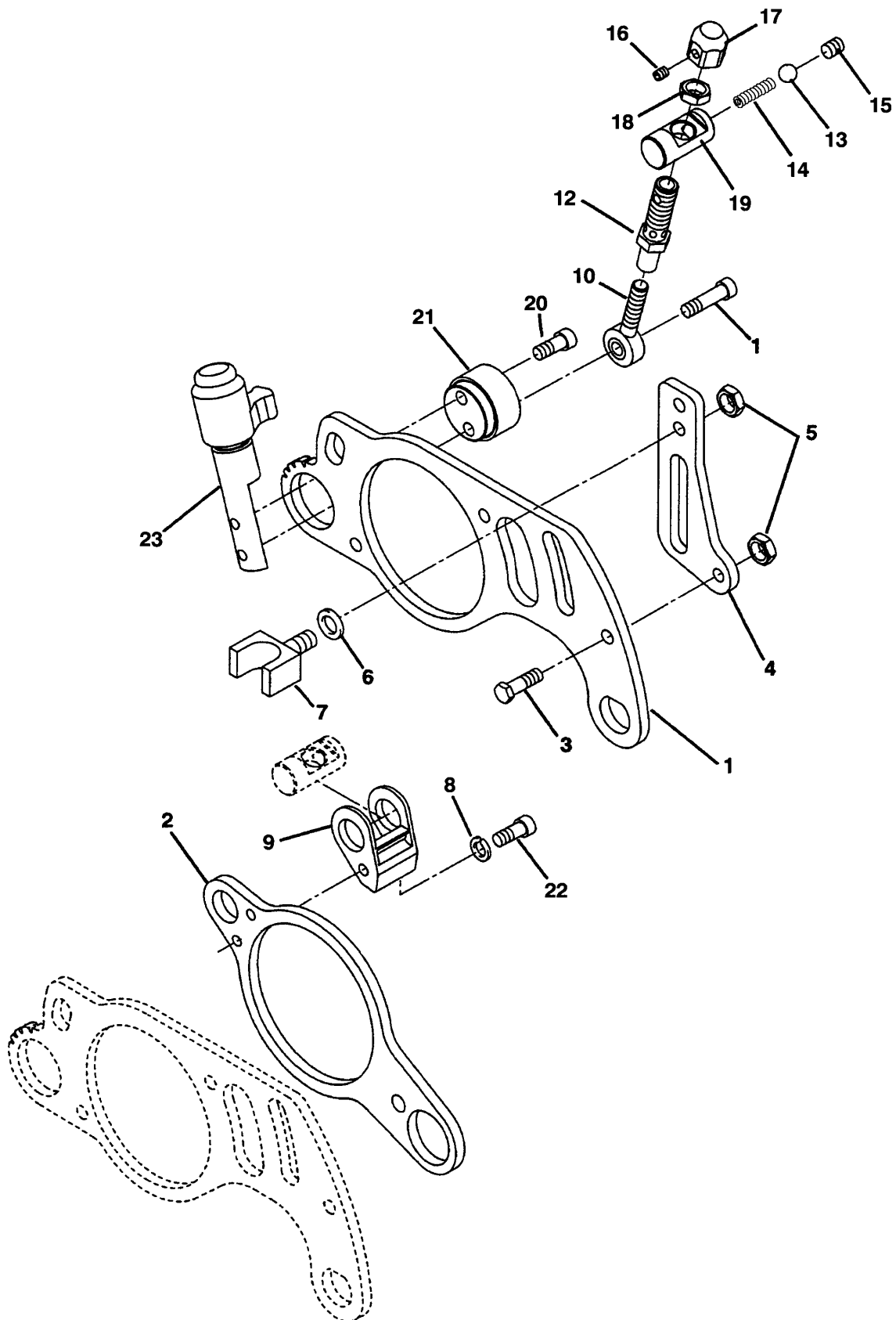
41 TURF GROOMER DRIVE ASSEMBLY



41 TURF GROOMER DRIVE ASSEMBLY**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	3010708	Bracket, groomer roller	1	See parts breakdown
2	220302	Housing, belt	1	
3	365260	Link, belt adjusting	1	
4	367162	Eccentric, belt adjusting	1	
5	446142	Lockwasher, 3/8"	1	
6	434030	Screw, 3/8-16 x 7/8", socket head	1	
7	132214	Cover, belt housing	1	
8	338752	Seal, oil	1	
9	446130	Lockwasher, 1/4"	3	
10	434029	Screw, 1/4-20 x 1", socket head	2	
11	434011	Screw, 1/4-20 x 5/8", socket head	1	
12	365247	End, rod	1	
13	446136	Lockwasher, 5/16"	1	
14	434032	Screw, 5/16-18 x 1 3/4", socket head	1	
15	365270	Bolt, micro adjusting	1	
16	3003969	Pin, pivot	1	
17	465006	Ball, 5/16 dia., steel	1	
18	365291	Spring	1	
19	471219	Fitting, grease, 1/8 NPT	1	
20	445667	Nut, 1/2-20, hex nyloc	1	
21	422502	Screw, set, 1/4-20 x 1/4"	1	
22	3005108	Knob, micro adjuster	1	
23	367166	Cam	1	
24	453009	Washer, 5/16"	1	
25	434024	Screw, 5/16-18 x 3/4" Socket head	1	
26	400186	Screw, 5/16-18 x 7/8"	2	
27	364061	Bracket, adjusting pivot	1	
28	365344	Clamp, housing retaining	1	
29	444718	Nut, 5/16-18	2	
30	365233	Link, roller adjusting	1	
31		Quick height adjuster	1	

42 TURF GROOMER DRIVEN ASSEMBLY

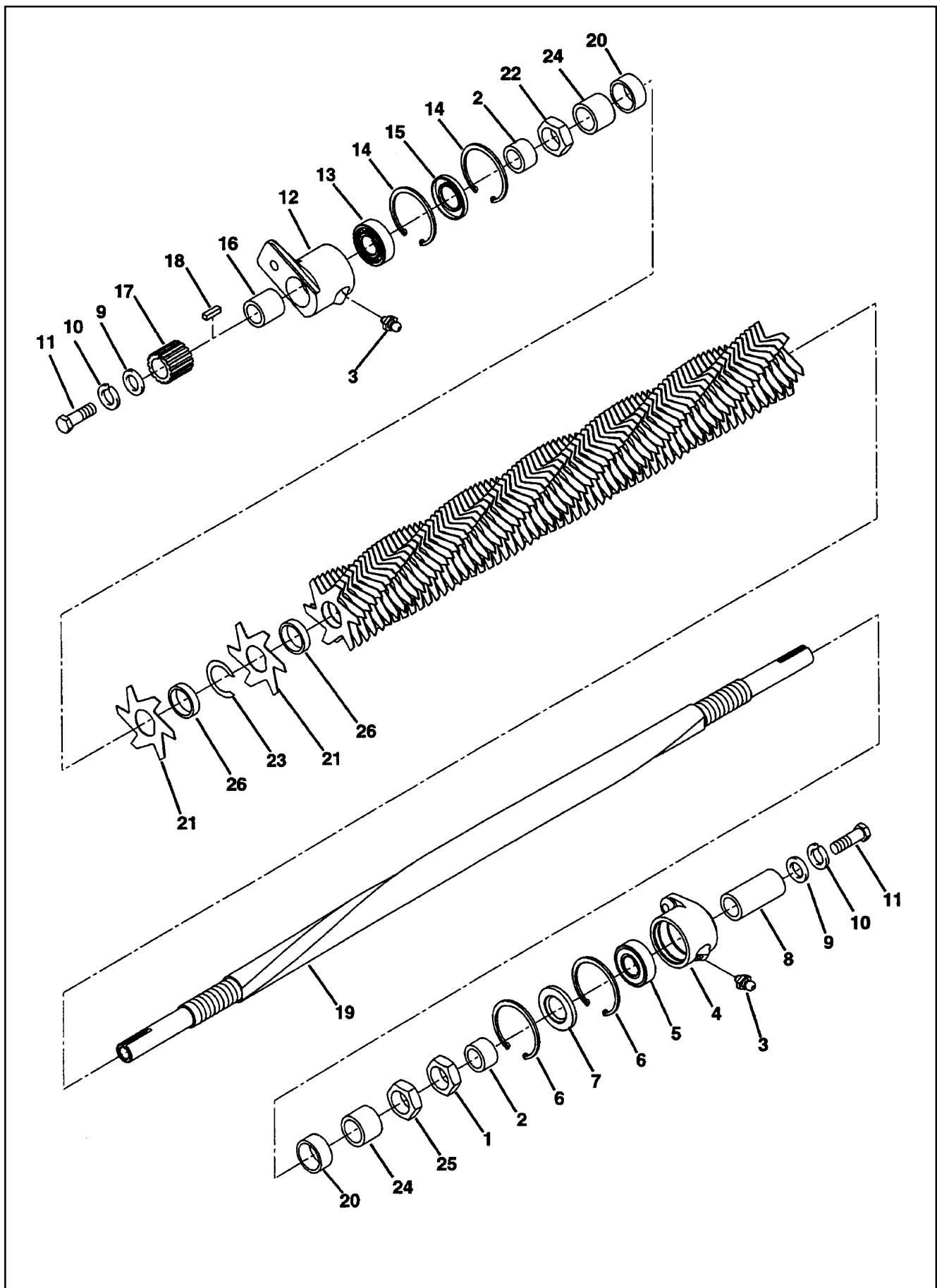


42 TURF GROOMER DRIVEN ASSEMBLY
LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	3010708	Bracket, groomer roller	1	See parts breakdown
2	338748	Bracket, groomer mounting	1	
3	400186	Screw, 5/16-18 x 7/8"	1	
4	365233	Link, roller adjusting	1	
5	444718	Locknut, 5/16-18, center	2	
6	453009	Washer, 5/16"	1	
7	364061	Bracket, adjusting pivot	1	
8	447212	Lockwasher	2	
9	2000088	Block, pivot	1	
10	365247	Rod end	1	
11	434032	Bolt, 5/16-18 x 1 3/4" socket head	1	
12	365270	Bolt, micro adjusting	1	
13	465006	Ball, 5/16 dia., steel	1	
14	365291	Spring	1	
15	323016	Plug, pipe, 1/8 NPT, 905	1	
16	422502	Screw, set, 1/4-20 x 1/4"	1	
17	3005108	Knob, micro adjuster	1	
18	445667	Nut, 1/2-20, hex nyloc	1	
19	3003969	Pin, pivot	1	
20	434024	Screw, 5/16-18 x 3/4" socket head	1	
21	367166	Cam	1	
22	400118	Screw, 1/4-20 x 1 3/4" socket head	2	
23		Quick height adjuster	1	

* Not Illustrated

43 TURF GROOMER BLADE ASSEMBLY



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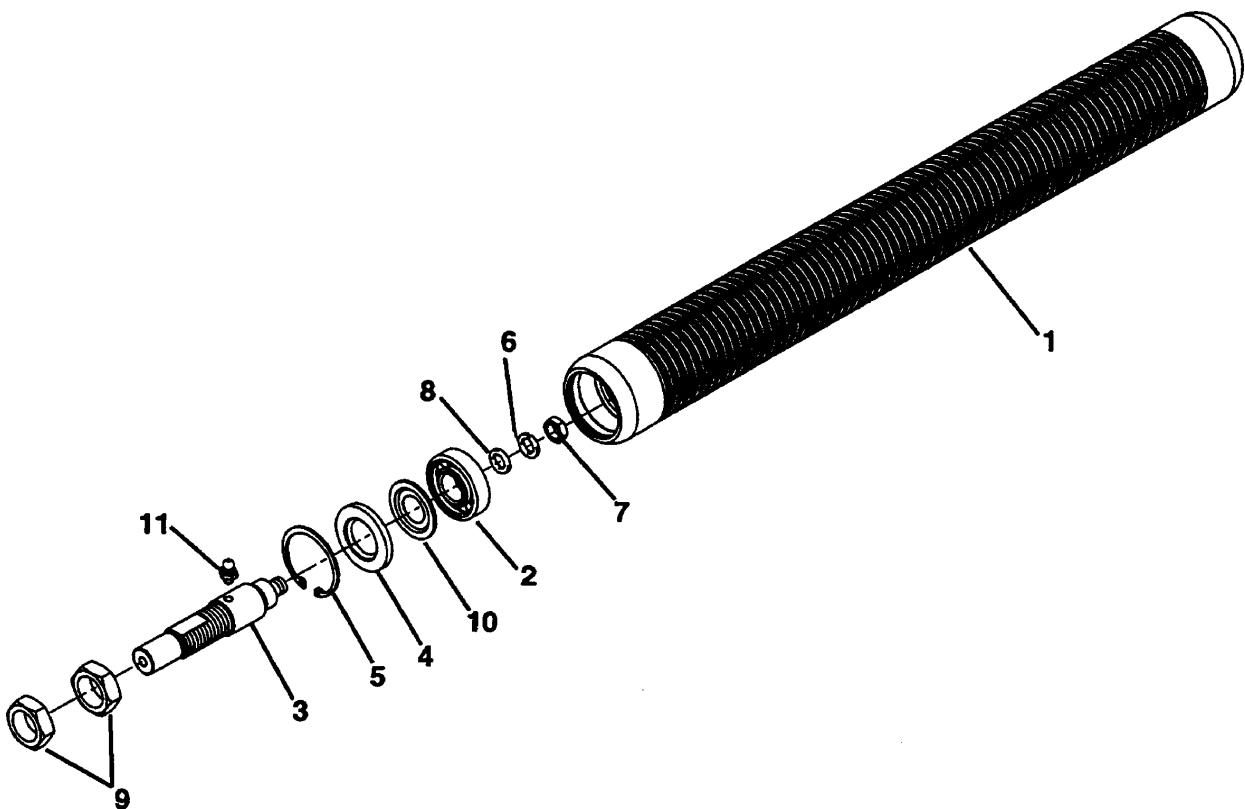
43 TURF GROOMER BLADE ASSEMBLY

LIST OF PARTS

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	367029	Locknut, 3/4-16, hex nyloc	1	
2	367165	Spacer, 7/8 x 17/32"	2	
3	471214	Fitting, grease, 1/4-28	1	
	132211	Housing, driven bearing	1	
4	241808	• Housing, bearing	1	
5	365229	• Bearing, ball	1	
6	458461	• Snap ring	2	
7	336962	• Seal, grease	1	
8	367164	Spacer, 7/8 x 1 13/16"	1	
9	453011	Washer, 3/8"	2	
10	446142	Lockwasher, 3/8"	2	
11	400298	Screw, 3/8-24 x 1"	2	
	132210	Housing, drive bearing	1	
12	241807	• Housing, bearing	1	
13	365229	• Bearing, ball	1	
14	458461	• Snap ring	2	
15	336962	• Seal, grease	1	
16	367163	Spacer, 7/8 x 7/8"	1	
17	365227	Pulley, 16 groove	1	
18	345556	Key, 1/8 x 1/8 x 31/32"	1	
	132215	Groomer shaft assembly, 1/4" spacing	1	Product No. 067871
	132213	Groomer shaft assembly, 1/2" spacing	1	Product No. 067873
19	390857	• Shaft, groomer	1	
20	365234	• Spacer, 1 1/16 x 15/32"	2	
21	365230	• Blade (1/4" spacing)	71	365230 is a package of
	365230	• Blade (1/2" spacing)	40	50 Blades
22	367029	• Locknut, 3/4-16, hex nyloc	1	
23	364040	• Shim, groomer shaft	As Req'd	
24	367161	• Spacer, 1 x 3/4"	2	
25	443832	• Nut, 3/4-16, jam	1	
26	365236	• Spacer, 1/4" spacing	70	Product No. 067871
26	365234	• Spacer, 1/2" spacing	39	Product No. 067873

* Not Illustrated

44 TURF GROOMER ROLLER ASSEMBLY

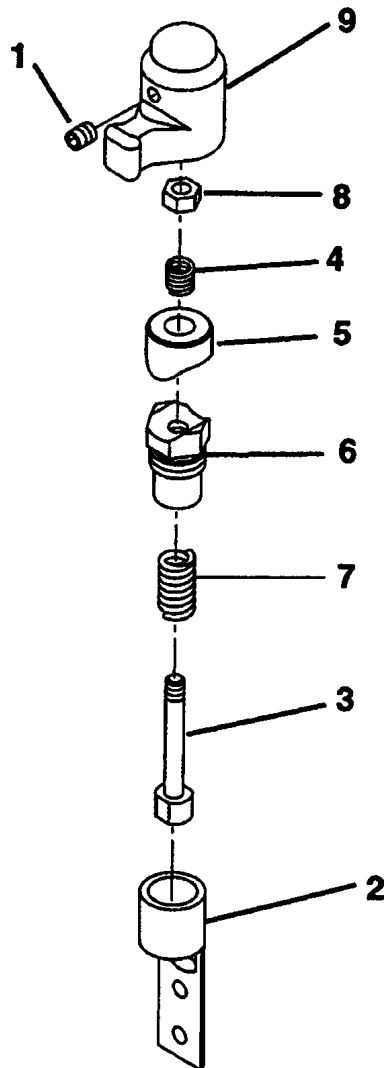


44 TURF GROOMER ROLLER ASSEMBLY**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	390899	Tube, roller, 1/4" spacing	1	Product No. 067871
1	390900	Tube, roller, 1/2" spacing	1	Product No. 067873
2	365330	Bearing, ball	2	
3	338772	Shaft, roller	2	
4	338773	Seal, grease	2	
5	458113	Snap ring	2	
6	446148	Lockwasher, 7/16"	2	
7	443186	Nut, 7/16-20, jam	2	
8	452008	Washer, 7/16"	2	
9	443836	Nut, 7/8-14, jam	4	
10	365345	Ring, nylos	2	
11	471214	Fitting, grease, 1/4-28	2	

* Not Illustrated

45 TURF GROOMER QUICK HEIGHT ADJUSTER



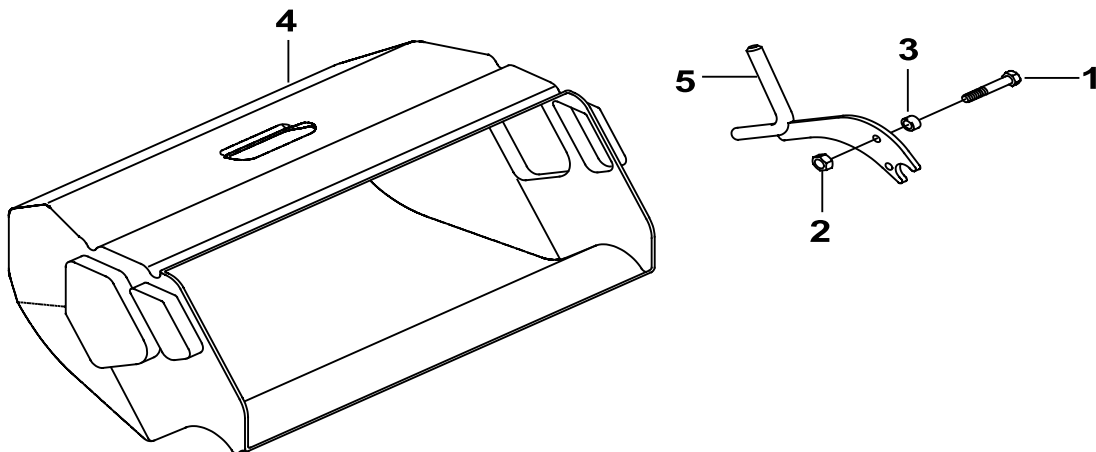
45 TURF GROOMER QUICK HEIGHT ADJUSTER**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	422502	Screw, set, 1/4-20 x 1/4"	1	
2	365265	Link, adjusting	1	
	163761	Knob assembly	1	
3	365271	• Bolt	1	
4	365268	• Spring	1	
5	365267	• Plunger	1	
6	365266	• Bolt, adjusting	1	
7	365269	• Spring	1	
8	444708	• Locknut, 1/4-20, center	1	
9	271919	Knob, quick adjuster	1	

* Not Illustrated

46 GRASS CATCHER

**GRASS CATCHER
PART NO. 892006**



46 GRASS CATCHER**LIST OF PARTS**

ITEM	RANSOMES PART NO	DESCRIPTION	QTY	REMARKS
1	302600	GRASSCATCHER		
2	800619	Screw, 318-16 x1 1/2"	2	
3	822474	Nut, 3/8-16 (nylon insert)	2	
4	839072	Spacer	2	
5	892007	Catcher, grass	1	
		Bracket, catcher	2	

* Not Illustrated

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PART NO	DESCRIPTION	PAGE	ITEM
001921740	Hose, fuel, 30"	19	8
001925160	Clamp, hose	19	9
001925400	Clamp, hose	23	21
001925570	Clamp, hose	21	20
002540080	Tee, branch	29	23
002989380	Weather seal	23	19
008950200	Mounting block, oil cooler	23	22
009039640	Decal - Choke	55	17
009114340	Decal - Diesel	55	2
0840352	Element, air filter	11	9
1000480	Housing, bearing	73	19
1000480	Bearing Housing	69	21
1000770	Roller, Rear	71	17
1000997	Decal	77	25
1000997	Decal, Warning	69	3
1002225	Bolt, roller mounting	77	16
1002228	Bolt, roller mounting	77	16
1002560	Vertical mower	73	24
1002767	Brace, shield	77	27
1002768	Brace, shield	77	28
1003467	Seal	73	10
1004756	Housing, bearing	73	5
1004756	Bearing Housing	69	5
102024	Scraper, front roller	75	11
102024	Scraper blade assembly	81	7
102030	Shaft, front roller assembly	81	2
131161	Assembly, shaft and collar	73	25
131426	Roller, smooth (steel)	81	1
132214	Cover, belt housing	85	7
148231	Fitting, 3/16, elbow	15	50
15531-72-403	Bottle, overflow	9	25
158056-02	Tee, run	31	22
158059-03	Fitting, adaptor, 45	27	14
158059-03	Fitting, adaptor, 45	29	14
158122	Tubing, polyurethane,	13	20
162916	Roller, Rear	71	26
162916	Roller, rear	75	1
162917	Roller, front	75	20
163776	Pulley assembly	83	23
163892	seal	69	29
16676-72-061	Radiator	9	26
198057	Seat	53	1
198059	Arm Rest (left)	53	13
198066	Arm Rest (right)	53	14
2000065	Casting, counterweight	75	8
2000065	Casting, Counterweight	71	6
2000088	Block, pivot	87	9
2188147	Brake, complete, LEFT	51	29
2188147-01	Bracket	51	30
2188147-02	Brake pad-cam	51	31
2188147-03	Pad-support	51	32
2188147-04	Spring-lever retainer	51	33
2188147-05	Housing	51	34
2188147-06	Cam, LEFT	51	35
2188147-07	Pin, pivot	51	36
2188147-08	Brake pad-carrier side	51	37
2188147-09	Pad-support	51	38
2196054	Arm Rest Set (accessory)	53	12
220302	Housing, belt	85	2
2208047	Valve, 4 way 3 position	27	28
2208099	Switch	47	2
2208099	Switch	61	41
2208099	Switch	63	41
2208146	Valve, reel drive	27	29
2208146	Valve, reel drive	29	29
241807	Housing, bearing	89	12
241808	Housing, bearing	89	4
241817	Knob, clutch	83	28
2701710	Motor, reel drive	33	38
2701711	Pump, hydraulic	27	24
2701711	Pump, hydraulic	29	24
2701736	Engine, Briggs & Stratton	7	36

PART NO	DESCRIPTION	PAGE	ITEM
2701768.8	Tailpipe	7	7
2701808	Throttle Control & Cable	7	8
2702239	Housing, Coupler & Adaptor	7	11
2702384	Seal, Cooler	7	12
2702424	Hose, hydraulic, 3/4" x 62"	23	6
2702425	Hose, hydraulic, 1/2" x 41"	23	7
271919	Knob, quick adjuster	93	9
2810043	Shield, Reel	71	9
3000010	Adapter, seal	79	6
3000012	Shaft, rear roller	79	1
3000013	Roller, grooved (steel)	79	2
3000026	Seal, grease	79	5
3000394	Roller, grooved (aluminum)	79	2
3000543	Adapter, seal	79	6
3000698	Washer	71	25
3001654	Shaft, Roller	71	18
3001655	ube, Roller	71	19
3001656	Seal	71	20
3001762	Sleeve	71	23
3003969	Pin, pivot	85	16
3003969	Pin, pivot	87	19
3004410	Spacer, medium	77	38
3005108	Knob, micro adjuster	85	22
3005108	Knob, micro adjuster	87	17
3005373.6	Shield, rear grass	75	38
3005515	Spacer, driven assembly .02"	83	22
3005692	Knob, front roller adjusting	75	27
3005692	Knob, Front Roller Adjusting	71	2
3005970	Spacer, long	77	34
3005971	Spacer, short	77	24
3007975	Bracket, bearing housing	77	1
3008039	Nut, eccentric adjusting	77	15
3008438	Bracket, roller	75	32
3008438	Roller Bracket, Right Side	71	15
3008439	Bracket, roller	75	33
3008439	Roller Bracket, Left Side	71	16
3009138	Screw, 1/4-20 x 1/2" Flat Head	69	16
300983	Seal	71	22
3009922.6	Shield, front grass	75	37
3010293	Stop, Mower	69	11
3010293	Stop, mower	73	14
3010708	Bracket, groomer roller	85	1
3010708	Bracket, groomer roller	87	1
303558	Bearing	71	30
303558	Bearing	75	5
303558	Bearing	75	24
303558	Bearing	81	4
305114	Shaft	75	22
305115	Seal	71	31
305115	Seal	75	6
305115	Seal	75	25
305115	Seal	81	5
315298	Bolt, wheel	79	2
323016	Plug, pipe, 1/8 NPT, 905	87	15
335449	Blade	73	26
336962	Seal, grease	73	7
336962	Seal, grease	73	21
336962	Seal, grease	89	7
336962	Seal, grease	89	15
336962	Seal, Grease	69	7
336962	Seal, Grease	69	23
337370	Coupling, drive	73	36
338748	Bracket, groomer mounting	87	2
338752	Seal, oil	85	8
338758	Pulley, reel shaft	77	18
338763	Seal	77	5
338768	Seal, grease	83	24
338772	Shaft, roller	91	3
338773	Seal, grease	91	4
340780	Brush replacement	77	13A
340836	Pulley, brush shaft	77	10
343616	Stud	75	19

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PART NO	DESCRIPTION	PAGE	ITEM
343616	Stud	71	13
345369	Shaft, Roller	71	28
345369	Shaft	75	3
345556	Key, 1/8 x 1/8 x 31/32"	89	18
351520	Clip	75	10
351521	Rod	75	35
351522	Scraper	75	39
351526	Retainer, scraper	75	40
351738	Decal, caution	73	3
352221	Spacer, blade	73	27
352437	Nut, blade clamp	73	28
361877	Decal, danger	73	2
361877	Decal, Danger	69	2
363016	Key, 1/8 x 1/8 x 1/2", parallel	77	11
363818	Spring	77	7
363841	Washer	83	29
364040	Shim, groomer shaft	89	23
364061	Bracket, adjusting pivot	85	27
364061	Bracket, adjusting pivot	87	7
364120	Belt	77	23
364124	Bracket	77	37
364135	Bearing, double row	79	1
364900	Nut, Reel	69	27
365226	Plate, cover	83	1
365227	Pulley, 16 groove	89	17
365228	Pulley, 28 groove	83	2
365229	Bearing w/seal	77	4
365229	Bearing, ball	83	3
365229	Bearing, ball	89	5
365229	Bearing, ball	89	13
365230	Blade (1/4" spacing)	89	21
365232	Spacer	83	5
365233	Link, roller adjusting	85	30
365233	Link, roller adjusting	87	4
365234	Spacer, 1 1/16 x 15/32"	89	20
365234	Spacer, 1/2" spacing	89	26
365235	Belt, drive	83	37
365236	Spacer, 1/4" spacing	89	26
365237	Spacer, grass catcher	83	10
365239	Key, 1/8 x 1/8 x 7/16"	83	7
365240	Decal, turf groomer	83	18
365246	Bolt, Shoulder	69	33
365246	Bolt, shoulder	73	31
365246	Bolt, 3/8-16, nyloc shoulder	83	15
365247	End, rod	85	12
365247	Rod end	87	10
365254	Shaft, stub	83	27
365256	Spacer, pulley	83	6
365257	Bolt	83	31
365258	Pin	83	26
365260	Link, belt adjusting	85	3
365265	Link, adjusting	93	2
365266	Bolt, adjusting	93	6
365267	Plunger	93	5
365268	Spring	93	4
365269	Spring	93	7
365270	Bolt, micro adjusting	85	15
365270	Bolt, micro adjusting	87	12
365271	Bolt	93	3
365272	Spring	83	25
365291	Spring	85	18
365291	Spring	87	14
365293	Spacer, 9/64" long	77	14
365294	Spacer, 1 1/8" long	77	12
365295	Spacer, 27/32" long	77	22
365302	Spacer, pulley	77	22
365330	Bearing, ball	91	2
365341	Washer, special	83	16
365343	Guide, wheel	83	19
365344	Clamp, housing retaining	85	28
365345	Ring, nylos	91	10
365409	Spacer, roller	83	21

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367161	• Spacer, 1 x 3/4"	89	24
367162	Eccentric, belt adjusting	85	4
367163	Spacer, 7/8 x 7/8"	89	16
367164	Spacer, 7/8 x 1 13/16"	89	8
367164	Spacer	69	13
367165	Spacer, 7/8 x 17/32"	89	2
367166	Cam	85	23
367166	Cam	87	21
379050522	Trim, push-on, 12' (3.6M)	23	17
390857	Shaft, groomer	89	19
390899	Tube, roller, 1/4" spacing	91	1
390900	Tube, roller, 1/2" spacing	91	1
4115061	Pedal, direction control	47	30
4115431	Motor, hydraulic HOS	35	29
4116522	Pawl Latch	51	40
4117098	Muffler	7	6
4118010	Wear Plate	51	39
4119002	Crinkle Washer, M12	51	44
4121789	Valve, Bi-directional, Relief	31	27
4123550	Angle, Cover	23	4
4123563	Angle, screen	23	5
4123564	Rear Engine Bracket	7	4
4123565	Cover, air intake	23	2
4123566	Engine Mount Plate	7	5
4123644	Spacer	5	5
4123645	Bracket, instrument	57	28
4123645	Bracket, instrument	59	28
4123646	Muffler Bracket	5	19
4123664	Housing, oil cooler	23	3
4123676	Heat Shield	7	13
4123773	Muffler Shield	7	9
4123903	Harness, Complete	59	42*
4123904	Harness,	59	42.1*
4123905	Harness,	59	42.2*
4123912	Decal - G-Plex III with Swoosh	55	16
4123940	Panel, instrument (GASOLINE)	59	30
4123970	Clamp	7	29
4124005	Decal, Steering Wheel.	39	17
4124005	Decal - Jacobsen	55	22
4124007	Decal - Jacobsen	55	3
4124157	Wire, red, battery to starter	59	39
4124159	Wire, black ground chassis	59	36
4124161	Starter Solenoid	63	12
4124172	Hose, hydraulic	29	27
4124173	Tube	29	19
4124175	Muffler Guard	5	18
4124180	Manifold	5	1
4124181	Muffler	5	12
4124182	Decal - Jacobsen	55	23
4124190	Decal - G-plex III	55	7
4124217	Panel, instrument (DIESEL)	57	30
4124349	Adaptor, elbow, 90	29	15
4124496	Gasket	5	6
4124765	Wire, black ground engine	57	36
4124765	Wire, black ground engine	59	41
4125159	Seal Kit	31	*
4126343	Neutral Stop	25	21
4136798	Filter, hydraulic	27	6
4136798	Filter, hydraulic	29	6
4136798	Filter, hydraulic oil	35	8
471240	Fitting, vent	73	23
471240	Vent Fitting	69	25
471514	Fitting, grease, 1/4-28	77	2
48310	Bushing	15	51
5000415	Bedknife Backing	69	14
5000625	Bearing	71	21
5001067	Shield, belt	77	26
5001099	9 Blade Reel 67038 Only	69	4
5001101	11 Blade Reel 67024 Only	69	4
5001182	Filter, fuel	17	10
5002151	Spring, Compression	69	26
5002463	Brush assembly	77	13

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PART NO	DESCRIPTION	PAGE	ITEM
5002577	Frame, reel	73	1
5002771	Bedknife, Fairway	69	15
5002814	Tube, Roller	71	27
5002814	Tube, roller	75	2
5003053	7 Blade Reel 67037 Only	69	4
5003577	Frame, Reel	69	1
500534	Bearing, cup and cone	73	6
500534	Bearing, cup and cone	73	20
500534	Bearing, Cup and Cone	69	6
500534	Bearing, Cup and Cone	69	22
503378	Bearing, ball, cup and cone	79	3
515268	Bushing	49	5
517163	Spacer, rubber	43	11
522840	Washer, thrust	43	13
523126	Bumper, rubber	41	12
523126	Bumper, rubber	43	14
523213	Clip	9	10
523221	Spacer	49	6
523224	Bumper, rubber	53	3
523253	End, control rod	25	15
523253	End	51	10
523356	Adjuster, seat wihandle (left)	53	4
523357	Adjuster seat (right)	53	5
523409	Knob	25	16
523492	Bushing	25	37
523768	Adapter, elbow 90	21	19
523768	Adapter, elbow 90°	23	12
523768	Adaptor, elbow, 90°	35	11
523930	Foam	9	33
524215	Bushing,turf guard	43	15
547610	Cable, control (throttle)	5	31
547818	Head, hydraulic filter	27	7
547818	Head, hydraulic filter	29	7
547818	Head,filter	35	12
590002786	Bushing	41	11
590002786	Bushing	43	12
64061-26	Pin, spirol, 1/4"	41	9
64061-26	Pin,spirol,1/4" x 1 3/4"	43	10
64220-01	Wheel Bolt 1/2"	65	20*
680001941	Tie,cable	33	3
680001941	Tie,cable,	37	6
800810	Ring, internal retaining	33	47
800810	Ring, retaining, internal	67	1
810149	Bumper, rubber	9	18
810152	Cover, footpedal	51	17
810722	Yoke	51	18
814065	Choke Cable (152cm)	7	30
814499	Spring, compression	41	20
814924	Clamp, hose	33	9
815058	Clamp	9	12
817320	Clamp	17	20
820529	Spacer	13	27
821893	Trim, push-on, 12' (3.6M) As	9	14
821893	Trim, push—on, 12'(3.7 M)	13	18
822474	Spacer	95	3
823332	Bushing	51	19
823332	Spacer	51	41
823332	Bushing	53	9
826000	Fuse, 20 amp	57	50
826000	Fuse, 20 amp	59	50
826000	Fuse, 20 amp	61	2
826000	Fuse, 20 amp	63	2
826218	Mount, motor	5	17
826218	Motor Mount	7	33
827320	Arm, spring retainer	25	41
827821	Knob, ball	5	33
827821	Ball Knob	7	34
829500	Spring, extension	49	15
829726	Trim, push on, 12'	51	20
829954	Gasket	17	11
829954	Gasket	19	4
830355	Weatherseal, 35' (1 0.6M). As	9	15

PART NO	DESCRIPTION	PAGE	ITEM
831518	Ball Joint	25	22
831518	Ball Joint	47	27
831586	Ball Joint	25	23
831877	Bushing	37	11
832499	Bearing, ball, 1" ID 2" OD	43	27
833038	Fuse, 30 amp	57	51
833038	Fuse, 30 amp	59	51
833038	Fuse, 30 amp	61	7
833038	Fuse, 30 amp	63	7
833851	Seal	53	10
834037	Connector, hose	19	14
835039	Fastener, snap	23	20
835805	Hose, overflow 4' (1 .2M) . As	9	17
836206	Clamp	15	52
836621	Seal, oil	65	8
836719	Nut, bearing adj	65	9
836852	Breather	13	32
837298	Spacer	61	11
837298	Spacer	63	11
837462	Boot, battery terminal	61	39
837462	Boot, battery terminal	63	39
837735	Plate,twinweld	33	10
837735	Plate, twin weld, M8	35	14
837736	Plate, clamp cover	31	11
837736	Plate, clamp cover	33	11
837736	Plate,clamp cover	35	15
837737	Set, clamp, hydraulic	35	16
837753	Adaptor, elbow, 90°	35	17
838093	Rod, threaded, 5/16-24 x 2 1/2" ..	25	24
838154	Bracket,fuelpumpmount	17	12
838225	Clip	13	33
838363	Decal - Throttle	55	13
838367	Decal - Parking Brake 'P'	55	14
838476	Latch, draw	43	28
838491	Cap, fuel line	19	7
839063	Bearing, ball, 5/8" ID 1 3/8" OD	43	29
839072	Catcher, grass	95	4
839181	Pin, rodconnecting,threaded	41	22
839391	Clamp, battery	3	20
839388	Bracket, pivot mounting	47	29
839410	Bushing, spring stop	43	30
839556	Fitting, adaptor, straight	27	12
839556	Fitting, adaptor, straight	29	12
839557	Fitting, adaptor, 90	27	13
839557	Fitting, adaptor, 90	29	13
839557	Fitting, adaptor, elbow, 90°	35	19
839721	Cover, steering unit, lower	39	11
839807	Adapter, straight	21	21
839807	Adapter, straight	23	23
839814	Hose, hyd. 1/2" i.d. x 38"	33	13
839820	Adaptor, elbow, 90	27	16
839820	Adaptor, elbow, 90	29	16
839821	Adaptor, elbow 90°	23	24
839837	Hose, hydr. 1/4" i.d. x 10 1/2"	31	15
839841	Hose, hydraulic, 1/4" i.d. x 70"	37	17
839842	Hose, hydraulic, 1/4" i.d. x 77"	37	18
839846	Fitting, adaptor, 45°	37	19
839860.06	Bracket,mountingcover	39	13
839876	Bushing	13	35
839953	Hose, radiator, bottom	9	20
839973.07	Panel, screen	9	21
839975.06	Bracket, mounting, fuel filter	17	13
840002-1	Timer, Fuel shut off	57	47
840003	Tread, control pedal	47	10
840017	Cover,steeringwheel	39	16
840062.07	Panel, radiator	9	22
840065	Decal - Speed Ctrl	55	4
840085.06	Stop, reel	43	31
840161	Element, fuel filter	17	19
840170.07	Box, tool/step	3	21
840171.07	Cover,box	3	22
840172	Hinge, box	3	23

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840192	Sleeve, nylon 3" x 16"	37	20	843910	Hose, hyd. 1/4" i.d. x 49"	33	19
840344	Bushing	43	32	843911	Hose, hyd. 1/4" i.d. x 47 1/2"	33	20
840346	Adaptor, gauge	11	5	843912	Hose, hydraulic, 3/8" i.d. x 22"	37	23
840347	Hood, inlet	11	6	843913	Hose, hyd. 1/4" i.d. x 76"	33	21
840420	Plate, latch	51	22	843914	Hose, hydraulic, 3/4" i.d. x 17"	35	21
840476	Spring	25	42	843915	Union, bhead450	33	22
840507	Pin, lift cylinder pivot	41	23	843916	Hose, hydraulic 3/8 ID x 39"	31	20
841160.06	Bracket, radiator	9	1	843917	Hose, hydraulic 3/8 ID x 39"	31	21
841203	Pin, rod connecting	41	24	843919	Hose, hydraulic, 1/4" i.d. x 72 1"	37	25
841466.06	Bracket, bumper-front	41	25	843920	Hose, hydraulic, 1/4" i.d. x 60 5/	37	26
841487	Angle, lockout link	49	16	843921	Hose, hyd. 1/2" i.d. x 47 1/2"	33	23
841522	Disk, orifice	31	17	843922	Hose, hyd. 1/2" i.d. x 43 1/4"	33	24
841673	Hose, hyd. 1/2" i.d. x 34"	33	15	843923	Hose, hyd. 1/2" i.d. x 28"	27	20
841676	Hose, hydraulic, 1/4" i.d. x 30"	37	21	843923	Hose, hyd. 1/2" i.d. x 28"	29	20
841700	Adaptor, elbow, 90°	31	18	843925	Hose, hydraulic, 1/2" id x 53"	21	26
841741	Cap, pivotshaft	41	26	843926	Hose, hydraulic, 1/2" i.d. x 16 3"	35	22
841741	Cap	43	33	843927	Hose, hydraulic, 1/2" i.d. x 18 1/	35	23
841895	Cover, Battery Terminal	57	26	843928	Hose, hydraulic, 3/4" i.d. x 22 1/	35	24
841895	Cover, Battery Terminal	59	26	843930	Hose, hydraulic, 3/4" id x 66"	21	25
842401	Latch	41	38	843931	Hose, hyd. 1" i.d. x 15"	27	21
842401	Latch	45	48	843931	Hose, hyd. 1" i.d. x 15"	29	21
842402	Rivet	41	39	843932	Hose, hyd. 1" i.d. x 26 1/2"	27	22
842402	Rivet	45	49	843932	Hose, hyd. 1" i.d. x 26 1/2"	29	22
842403	Handle	41	40	843933	Hose, hydraulic, 1" i.d. x 12 3/4"	35	25
842403	Handle	45	50	843989	Union, male	33	25
842471	Rod, Threaded, 3/8 - 24	41	28	843991	Elbow, male	33	26
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