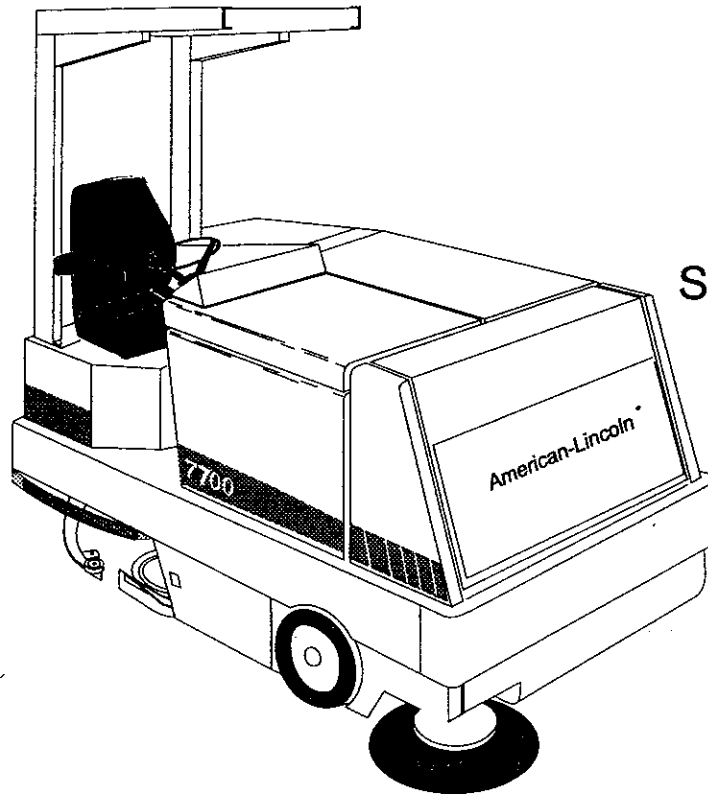


AMERICAN-LINCOLN TECHNOLOGY

Operator's Manual Instruction Book and Parts List

Model 7700
Sweeper/scrubber



Beginning with Serial No. 751382

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. you must have training in the operation of this machine before using it. If you or your operator (s) cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hacen explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator's position at the rear of the machine.

For new books, write to: Alto U.S., Inc., 1100 Haskins Road, Bowling Green, Ohio 43402

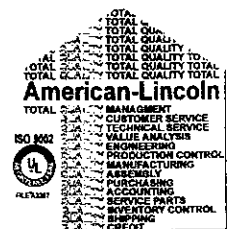


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DIMENSIONS

Length	101.5 Inches - 257.8 cm.
Width	59.0 Inches - 149.9 cm.
Height	61.5 Inches - 156.2 cm.
Wheel Base	56.4 Inches - 143.2 cm.
Height With Guard	85.5 Inches - 217.2 cm.

DRIVES

Propelling	Variable Displacement Pump - Hydraulic Drive Motor
Sweeping	(1) Hydraulic Motor
Scrubbing	(3) Hydraulic Motors
Vacuum - Water Pick Up	(1) Hydraulic Motor

HYDRAULIC CONTROL

Single foot pedal controls forward, neutral, reverse & dynamic braking.
All electro-hydraulic controls to both sweeping and scrubbing functions.

MECHANICAL SYSTEM

Steering	Power Steering with Rack and Pinion Gear.
Brakes	Parking/Foot Operated and Locked Disc Brakes
Brooms	Lift and Height Adjustment

SWEEPING SYSTEM

Type	Direct Throw
Hopper	1200 Lbs. - 544 Kg. (Variable and Low Dump)
Main Broom	50 Inches Long X 14 Inch Diameter - 127 cm. X 35.6 cm. 3.25 Inch Bristle Length - 8.3 cm. Features Broom Lift and Adjustable Broom Height for wear Compensation, Standard Poly-Fiber Broom, Quick Change System.

BRUSHES & SQUEEGEE

Brush	(3) 17 Inch (43.2 Cm.) Diameter Poly-Fiber Discs
Squeegees	(1) 53 Inch (134.6 Cm.) Wide Contoured Rear Squeegee with (2) 29 Inch (73.7 Cm.) Floating Squeegees, One On Either Side of the Scrubbing Compartment

TANK CAPACITY (Standard)

100 Gallon (378.5 Liters) Solution Tank
100 Gallon (375.5 Liters) Recovery Tank

TANK CAPACITY (Camel System)

Interconnected Tanks Provide A Total Camel System Capacity of 190 Gallons (719 Liters) Along With 5 Gallons (18.9 Liters) Of Detergent.

FUEL SYSTEM

Engine Cooling System	Radiator And Hoses (Approximately) 3 Quarts (2.8 Liters)
Gas/LP System Total	6.75 Quarts - 6.4 Liters
Diesel System Total	6.6 Quarts - 6.2 Liters
Gas, Diesel Fuel Tank	9.7 Gallons - 36.71 Liters
LPG Tank	33 Pounds
Engine Oil System	
Gas And LPG	4 Quarts - 3.8 Liters
Diesel	5 Quarts - 4.7 Liters
Hydraulic System	
Total System	11 Gallons - 41.6 Liters

SPECIFICATIONS

SWEEPING WIDTH

50 Inch (125.0 Cm.) Sweeping
60 Inch (152.4 Cm.) Sweeping with Side Broom

SPEEDS

Maximum Travel 7 Mph - 11.3 Km./Hr.

Recommended Maximum
Sweeping And
Scrubbing Speed 4.0 Mph - 6.4 Km./Hr.

TURNING RADIUS

Left 82 Inches - 208.3 cm.
Right 82 Inches - 208.3 cm.
Minimum Aisle Width For 180° Turn 120 Inches - 305 Cm.
Scrubbing Width 50 Inches (127 cm.) Provided by (3) 17 Inch (43.2 cm.)
Diameter Disc Brushes

WEIGHTS

7700

Net
Shipping W/ Crate

Variable Dump

4150 Lbs. - 1882 Kg.
4600 Lbs. - 2087 Kg.

Manual Dump

3700 Lbs. - 1678 Kg.
4150 Lbs. - 1882 Kg.

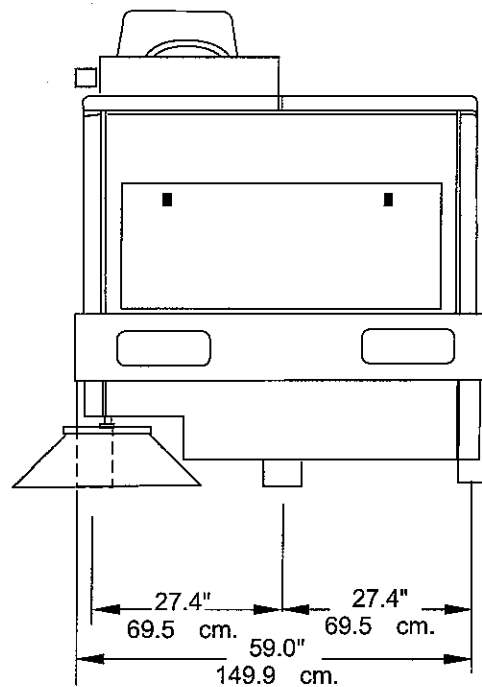
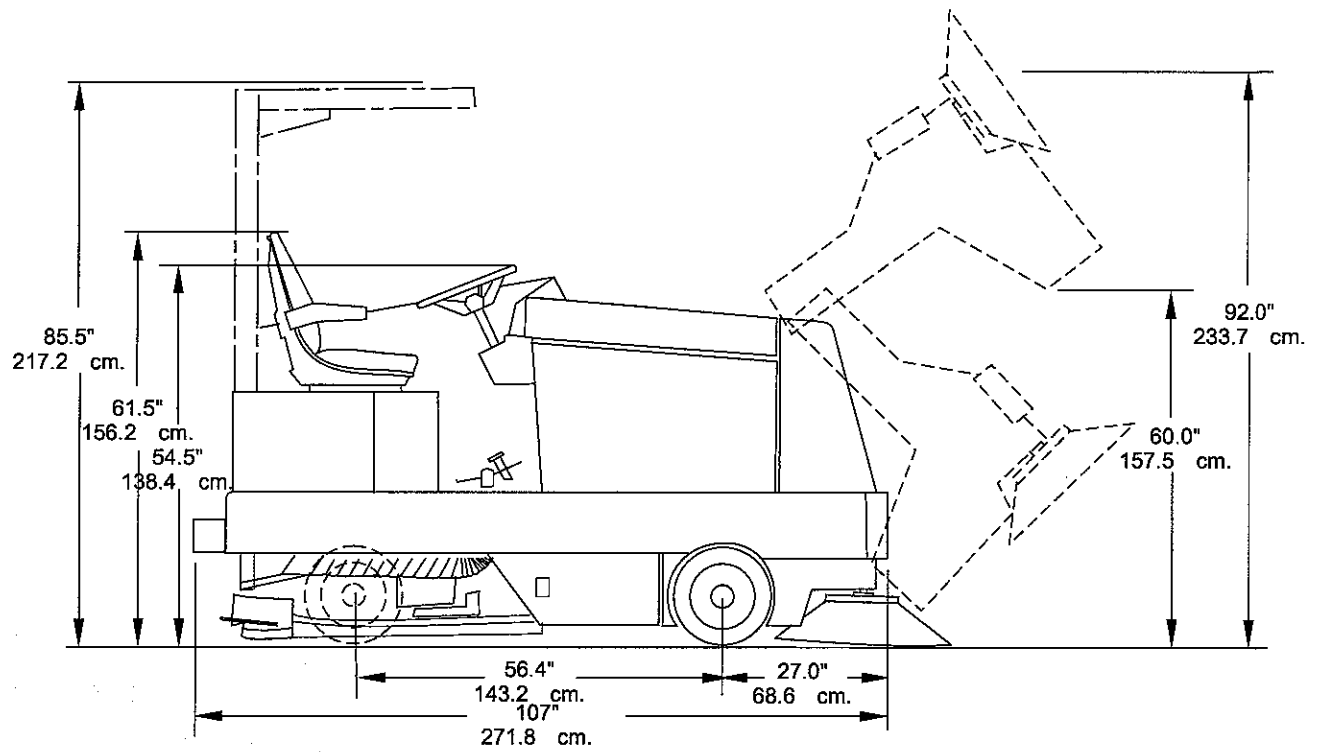
ENGINE DATA

Ford LSG - 423

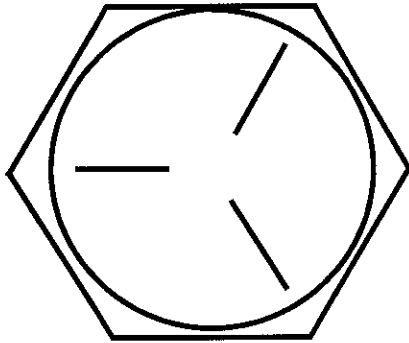
Bore And Stroke 3.78 X 3.126 In. - 9.60 X 7.94 Cm.
Oil Capacity 4 Quarts - 3.8 Liters
Displacement 4 Cylinders - 2.3 Liters (140 Cid)
Fuel "Regular" Unleaded Gasoline

Perkins 104.19

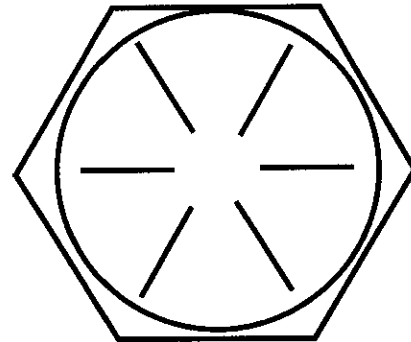
Bore And Stroke 8.307" X 3.543 (8.4 Cm X 9.0 Cm)
Oil Capacity 6.5 Qts. (6.2 Liters)
Displacement 4 Cylinders (2 Liters) (122 Cid)
Fuel Oil Minimum Cetane Number 40



BOLT IDENTIFICATION



SAE - Grade 5



SAE - Grade 8

Screw Size	Grade 5 Plated		Grade 8 Plated		410H Stainless		Brass	Type F & T & BT		Type B, AB
	C	F	C	F	C	F		C	F	
*6	14	15	-	-	18	20	5	20	23	21
*8	27	28	-	-	33	35	9	37	41	34
*10	39	43	-	-	47	54	13	49	64	49
*1/4	86	108	130	151	114	132	32	120	156	120
5/16	15	17	22	24	19	22	6	-	-	-
3/8	28	31	40	44	34	39	10	-	-	-
7/16	44	49	63	70	55	62	16	-	-	-
1/2	68	76	95	108	85	95	-	-	-	-
9/16	98	110	138	155	-	-	-	-	-	-
5/8	135	153	191	216	-	-	-	-	-	-
3/4	239	267	338	378	-	-	-	-	-	-
7/8	387	-	545	-	-	-	-	-	-	-
1	579	-	818	-	-	-	-	-	-	-

C = Coarse Thread

F = Fine Thread

* = Torque values for #6 through 1/4 are lb./in. All others are lb./ft.

NOTE

Decrease the torque by 20% when using thread lubricant
The torque tolerance is $\pm$ on torque values.

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C2000/9905

HYDRAULIC TORQUE REQUIREMENTS

HYDRAULIC TORQUE REQUIREMENTS

Refer to the following chart for torque values on all hydraulic hoses and fittings.

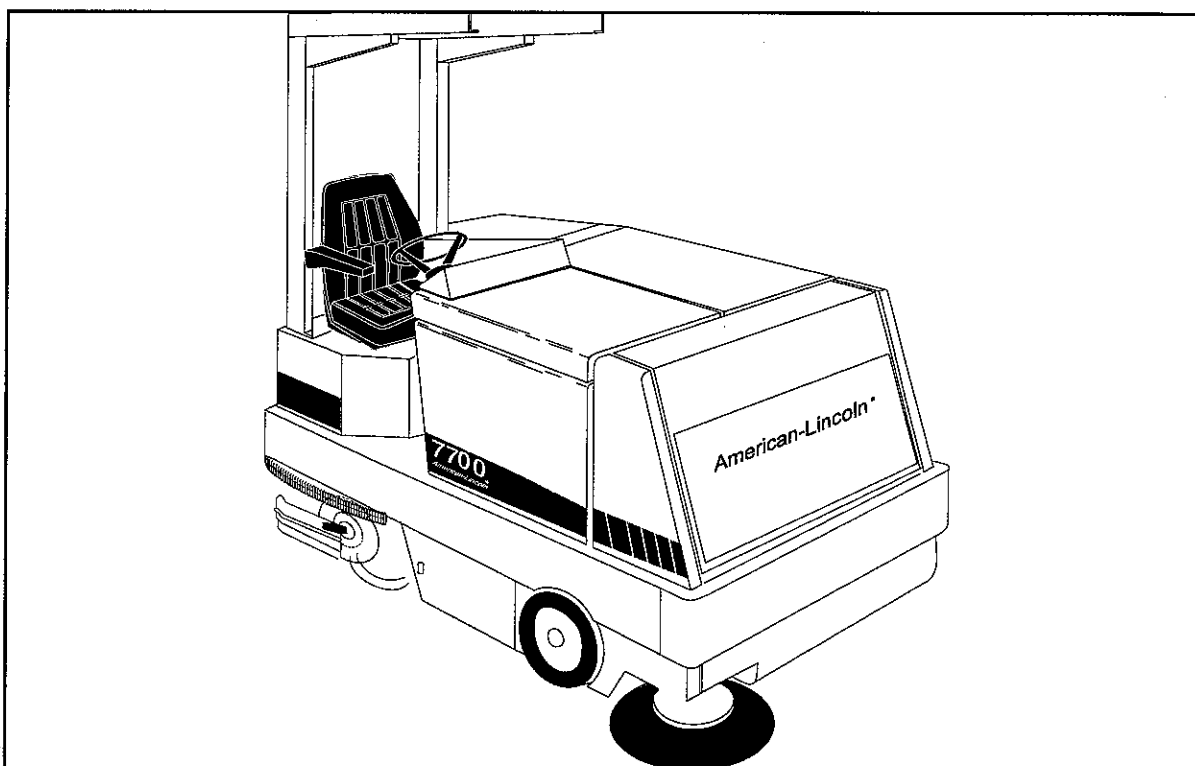
Nominal SAE Dash Size	O-Ring Face Seal End		SAE O-Ring Boss End	
	Thread Size Inch	Swivel Nut Torque	Thread Size Inch	Str. Fitting or Locknut Torque
		LB-FT		LB-FT
-3	*	*	3/8-24	8-10
-4	9/16-18	10-12	7/16-20	14-16
-5	*	*	1/2-20	18-20
-6	11/16-16	18-20	9/16-18	24-25
-8	13/16-16	32-35	3/4-16	50-60
-10	1-14	46-50	7/8-14	72-80
-12	1 3/16-12	65-70	1 1/16-12	125-135
-14	1 3/16-12	65-70	1 3/16-12	160-180
-16	1 7/16-12	92-100	1 5/16-12	200-220
-20	1 11/16-12	125-140	1 5/8-12	210-280
-24	2-12	150-165	1 7/8-12	270-360
* O-Ring face seal type end not defined for this tube size.				
NOTE				
Parts must be lightly oiled with hydraulic fluid.				

C-2002

DECIMAL-METRIC CONVERSION TABLE

FRACTION	DECIMAL	MILLIMETER	FRACTION	DECIMAL	MILLIMETER
$\frac{1}{64}$	0.015625	0.3969	$\frac{33}{64}$	0.515625	13.0969
$\frac{1}{32}$	0.03125	0.7938	$\frac{17}{32}$	0.53125	13.4938
$\frac{3}{64}$	0.046875	1.1906	$\frac{35}{64}$	0.546875	13.8906
$\frac{1}{16}$	0.0625	1.5875	$\frac{9}{16}$	0.5625	14.2875
$\frac{5}{64}$	0.078125	1.9844	$\frac{37}{64}$	0.578125	14.6844
$\frac{3}{32}$	0.09375	2.3813	$\frac{19}{32}$	0.59375	15.0813
$\frac{7}{64}$	0.109375	2.7781	$\frac{39}{64}$	0.609375	15.4781
$\frac{1}{8}$	0.125	3.1750	$\frac{5}{8}$	0.625	15.8750
$\frac{9}{64}$	0.140625	3.5719	$\frac{41}{64}$	0.640625	16.2719
$\frac{5}{32}$	0.15625	3.9688	$\frac{21}{32}$	0.65625	16.6688
$\frac{11}{64}$	0.171875	4.3656	$\frac{43}{64}$	0.671875	17.0656
$\frac{3}{16}$	0.1875	4.7625	$\frac{11}{16}$	0.6875	17.4625
$\frac{13}{64}$	0.203125	5.1594	$\frac{45}{64}$	0.703125	17.8594
$\frac{7}{32}$	0.21875	5.5563	$\frac{23}{32}$	0.71875	18.2563
$\frac{15}{64}$	0.234375	5.9531	$\frac{47}{64}$	0.734375	18.6531
$\frac{1}{4}$	0.25	6.3500	$\frac{3}{4}$	0.75	19.0500
$\frac{17}{64}$	0.265625	6.7469	$\frac{49}{64}$	0.765625	19.4469
$\frac{9}{32}$	0.28125	7.1438	$\frac{25}{32}$	0.78125	19.8438
$\frac{19}{64}$	0.296875	7.5406	$\frac{51}{64}$	0.796875	20.2406
$\frac{5}{16}$	0.3125	7.9375	$\frac{13}{16}$	0.8125	20.6375
$\frac{21}{64}$	0.328125	8.3344	$\frac{53}{64}$	0.828125	21.0344
$\frac{11}{32}$	0.34375	8.7313	$\frac{27}{32}$	0.84375	21.4313
$\frac{23}{64}$	0.359375	9.1281	$\frac{55}{64}$	0.859375	21.8281
$\frac{3}{8}$	0.375	9.5250	$\frac{7}{8}$	0.875	22.2250
$\frac{25}{64}$	0.390625	9.9219	$\frac{57}{64}$	0.890625	22.6219
$\frac{13}{32}$	0.40625	10.3188	$\frac{29}{32}$	0.90625	23.0188
$\frac{27}{64}$	0.421875	10.7156	$\frac{59}{64}$	0.921875	23.4156
$\frac{7}{16}$	0.4375	11.1125	$\frac{15}{16}$	0.9375	23.8125
$\frac{29}{64}$	0.453125	11.5094	$\frac{61}{64}$	0.953125	24.2094
$\frac{15}{32}$	0.46875	11.9063	$\frac{31}{32}$	0.96875	24.6063
$\frac{31}{64}$	0.484375	12.3031	$\frac{63}{64}$	0.984375	25.0031
$\frac{1}{2}$	0.5	12.7000	$\frac{1}{1}$	1.0000	25.4000

C-2001/8907



P4723

FIGURE 1

YOUR 7700 MACHINE HAS BEEN SHIPPED COMPLETE, BUT DO NOT ATTEMPT TO OPERATE WITHOUT FOLLOWING THESE INSTRUCTIONS.

PREPARING THE MACHINE FOR OPERATION

1. Connect and tighten battery cables.
2. Fill the tank with REGULAR GRADE gasoline. (Diesel fuel if equipped with diesel engine.)



WARNING

Never fill tank while engine is running. Always be sure gasoline container and sweeper are electrically connected before pouring gasoline. This can easily be done by providing an insulated wire (permanently attached to container) with battery clip on the other end.

3. Check engine crankcase oil level. Although properly lubricated at factory, check before starting engine. No special break in oil is used and recommended number of operating hours before the initial oil change is the same as normal. See Maintenance.
4. Check radiator coolant level. Permanent type antifreeze is added at the factory to provide protection to approximately -35° F (37° C). To retain this protection level, always add 1/2 part water to 1/2 part antifreeze.
5. Check oil level in the hydraulic reservoir located at center of machine beside the engine. Oil fill level should be two (2) inches (5 cm.) below filler neck assembly. If oil is required, add HYDRAULIC FLUID ONLY, automatic transmission fluid FORD type "F". After the first 50 operating hours, service must be performed on your engine to insure future high performance and trouble free operation. See Maintenance.

SAFETY PRECAUTIONS

FOR SAFETY, OBSERVE THE FOLLOWING WARNINGS. FAILURE TO COMPLY MAY CREATE A SERIOUS RISK OF INJURY TO YOURSELF AND OTHERS. THIS MACHINE SHOULD NOT BE USED IN HAZARDOUS LOCATIONS INCLUDING AREAS OF VOLATILE DUST OR VAPOR CONCENTRATIONS.



WARNING

Operators must be trained, qualified and understand the operator's manual before starting.

Use caution when mounting or dismounting the machine particularly on wet slippery surfaces.

Operate only from the designated operators position. Keep inside the body of the machine. Keep hands and feet on the designated controls. Always operate in well lighted areas.

Do not dump the hopper over an open pit or dock. Do not dump the hopper when positioned on a grade (ramp). The machine must be level (horizontal).

The operator must exhibit extreme caution when negotiating, turning and traveling across grades or ramps.

Start, stop, change direction, travel and brake smoothly. Slow down when turning. Avoid uneven surfaces and loose materials.

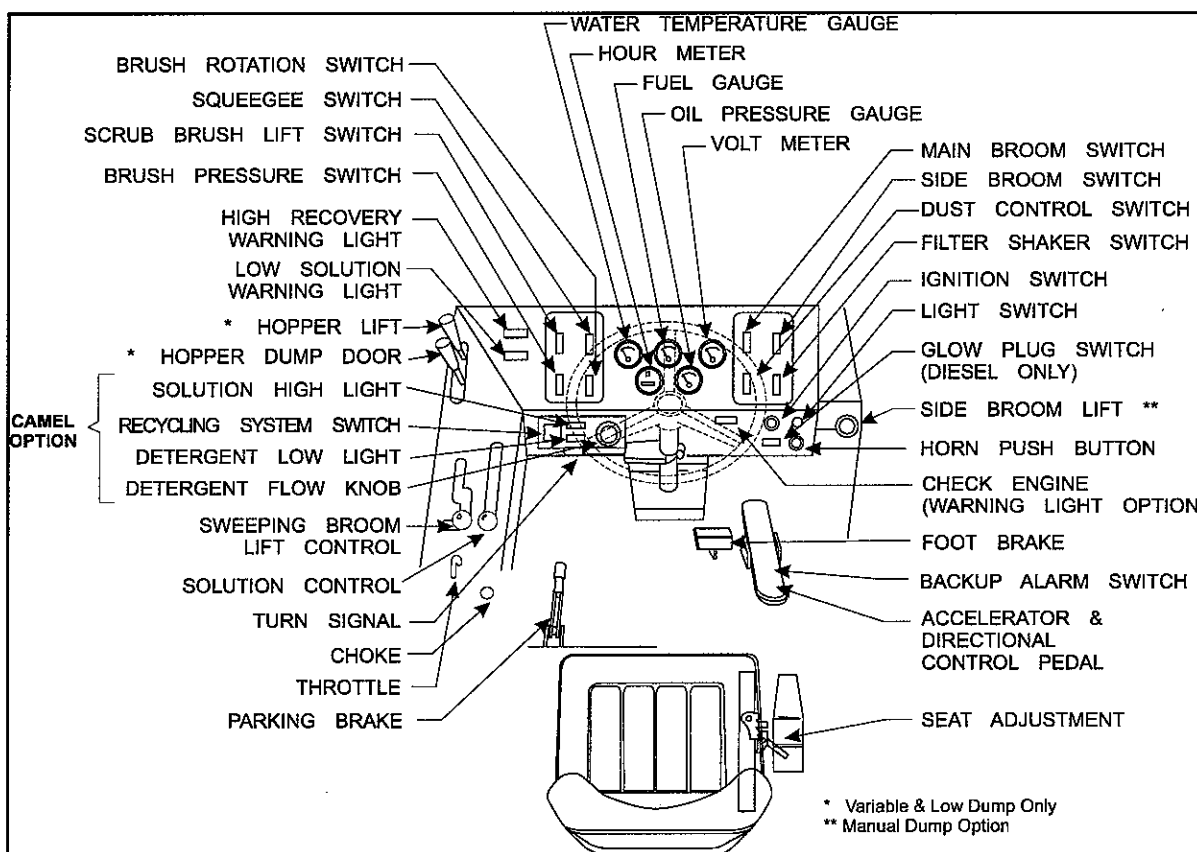
Watch out for obstructions, especially overhead.

Carry no passengers of the machine.

Set parking brake when leaving the machine. Chock (block) the wheels if the machine is to be parked on a grade (ramp), or is to be worked on.

Never leave the operator's seat with the engine running.

Report damage or faulty operation immediately. Do not operate the machine until repairs have been completed.



P4728

FIGURE 2

IGNITION SWITCH

The keyed ignition switch is located to the right of the steering column on the front face of the instrument console. It has four positions.

1. The key turned to the center "OFF" position will shut off the engine. The following items can be activated in the "OFF" position.
 - (A.) Horn
 - (B.) Light Options
2. The key turned to the left "ACCESSORY" position will allow the following additional items to be activated:
 - (A.) Turn Signals
 - (B.) Instrument Gauges
3. The key turned to the right "IGN/ON" position will allow all the items listed above to be activated. This position will not start the engine.
4. The key turned to the far right "START" position will start the engine. This position is a momentary position. The key will revert to the "IGN/ON" position when it is released.

LIGHT SWITCH

The light switch is located above the horn button to the right of the steering wheel. It will work various light options that are available for this machine, such as:

- * HEAD LIGHTS
- * TAIL LIGHTS
- * INSTRUMENT LIGHTS

All gauges, with the exception of the hour meter can have an optional internal instrument light.

OPERATION OF CONTROLS AND GAUGES

GLOW PLUG SWITCH (Diesel)

It should be noted that in no circumstances should either or any other unauthorized starting aids be used at the same time as Glow Plugs. The Glow Plug Switch is located to the right of the steering column on the front face of the instrument console. To operate the following procedure should be adopted.

1. Before operating the starter motor, press the "GLOW PLUG" button for 20 to 30 seconds.
2. With the "GLOW PLUG" button still depressed, engage the starter motor until the engine starts.
3. Continue to press the "GLOW PLUG" button for a few seconds after the engine has started until even running has been obtained.
4. If the engine does not start, disengage the starter motor, but keep the "GLOW PLUG" button depressed for a further 10 to 15 seconds, when a further attempt should be made to start the engine, keeping the Glow Plugs energized while starting and for a few seconds after the engine has fired until it is running smoothly.

HORN PUSH BUTTON

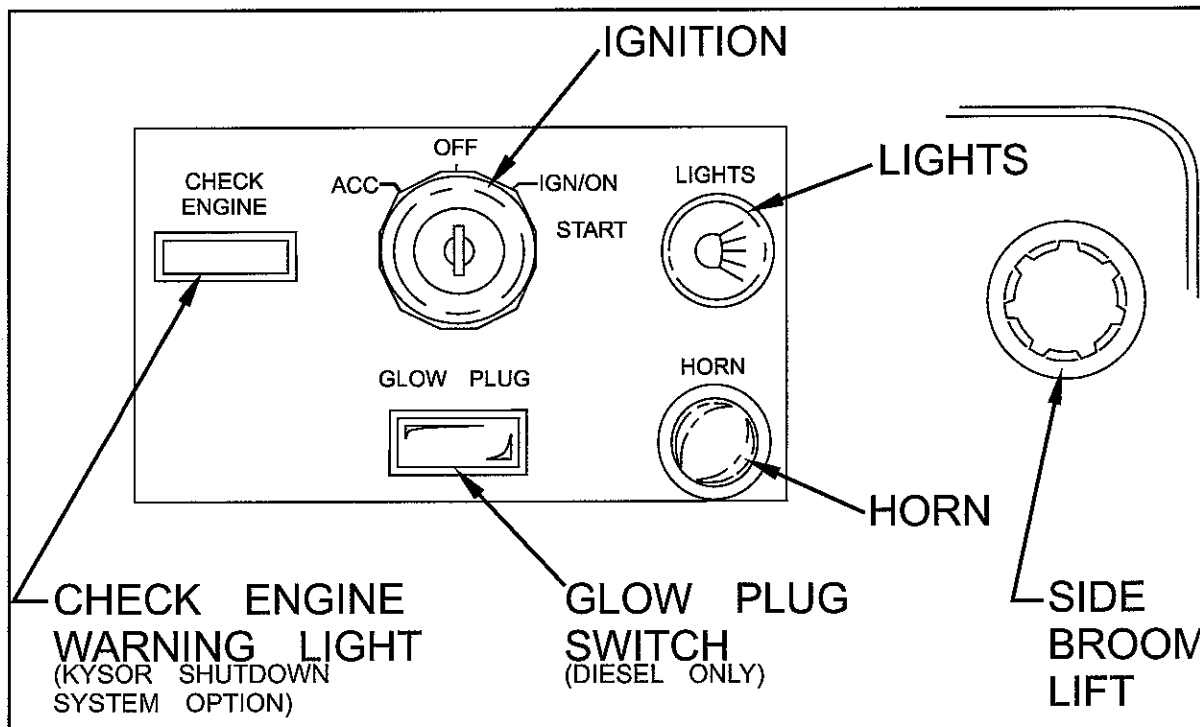
The horn button is located to the right of the steering column on the front face of instrument console. The horn button is always active. Push the horn button to sound the horn.

CHECK ENGINE (WARNING LIGHT OPTION)

This engine has a low oil pressure and low water shutdown option. If the engine oil pressure or the water level drops too low, the engine will shut down. Add engine oil until the oil is brought up to the correct level, or water to the radiator to the correct level.

SIDE BROOM LIFT (OPTIONAL FOR MANUAL DUMP)

The Side Broom Lift Lever is located to the right of the instrument console. The handle pulled back and turned to the right will raise the side broom and lock it in position.



P4853

FIGURE 3

MAIN BROOM SWITCH

The Main Broom Switch is located on the console to the right of the steering wheel in the SWEEPING section. This switch will activate the Main Broom. This switch has two positions "ON" and "OFF". See Sweeping Broom Lift Control.

SIDE BROOM SWITCH (Option For Manual Dump Machines)

The Side Broom Switch is located on the console to the right of the steering wheel in the SWEEPING section. This switch will activate the Side Broom. This switch has two positions "ON" and "OFF". See Side Broom Lift Control.

DUST CONTROL SWITCH (Wet Sweep Bypass Option - Option for Manual Dump Machine)

The Dust Control Switch is located on the console to the right of the steering wheel in the SWEEPING section. This switch will activate the dust control system.

FILTER SHAKER SWITCH (Variable and Low Dump Machines Only)

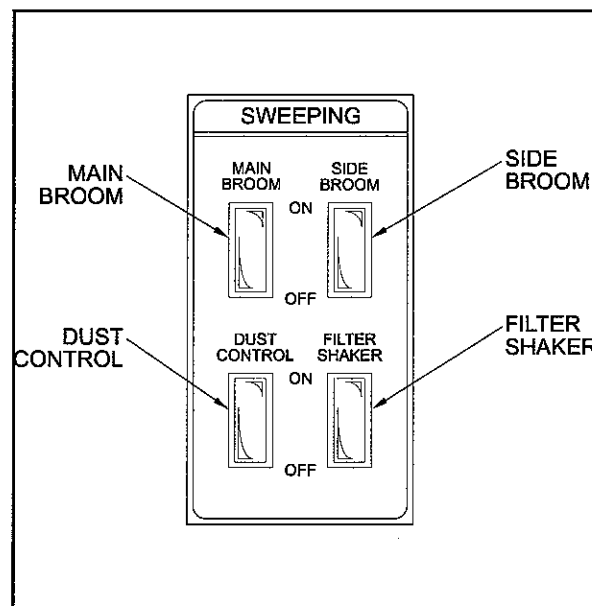
The Filter Shaker Switch is located on the console to the right of the steering wheel in the SWEEPING section.

NOTE - (Variable and Low Dump Machines Only)

MAIN BROOM DRIVE LEVER MUST ALWAYS BE PLACED IN OFF POSITION BEFORE SHAKING FILTER. FAILURE TO DO SO WILL RESULT IN DUST REMAINING ON THE SURFACE OF THE FILTER ENVELOPES INSTEAD OF DROPPING INTO THE HOPPER.

The button can be used when the ignition key is in the "ignition" position. The filter shaker control button is used during the sweeping cycle and the hopper unloading cycle. Use the filter shaker control button to remove dust from the filter. Use the following procedures to operate the filter shaker control button.

1. After the machine has made a long sweeping run, turn the broom switch to the "OFF" position.
2. Push the filter shaker control button for 5 to 15 seconds to allow the filter to unload.
3. Turn the broom switch to the "ON" position. Repeat this procedure after each long sweeping run.



NOTE - (Variable and Low Dump Machines Only)

The main broom, side broom, dust control and filter shaker turn off automatically when the hopper is dumping and/or the dump door is in a closed position. SEE HOPPER LIFT and HOPPER DUMP DOOR.

OPERATION OF CONTROLS AND GAUGES

WATER TEMPERATURE GAUGE

The Water Temperature Gauge is located on the console panel above the steering wheel in the gauge cluster. The gauge is mechanical and activated by a sender in the engine. It displays the engine coolant temperature in F.

HOURL METER

The Hour Meter is located on the console panel above the steering wheel in the gauge cluster. This meter is activated when the key switch is in the "ignition" position. The meter indicates actual "run" time of the machine. The meter is used to indicate when maintenance should be done to the machine.

FUEL GAUGE

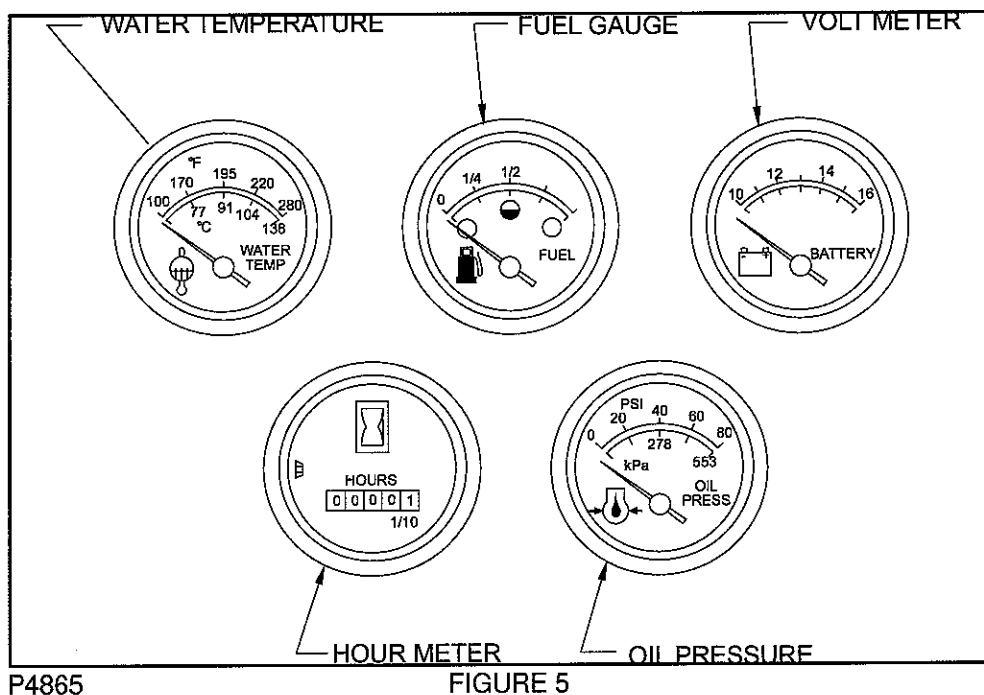
The Fuel Gauge is located on the console panel above the steering wheel in the gauge cluster. This gauge indicates the level of fuel contained in the fuel tank.

OIL PRESSURE GAUGE

The Oil Pressure Gauge is located on the console panel above the steering wheel in the gauge cluster. The gauge is mechanical and activated by a sender in the engine. It displays the engine oil pressure in PSI.

VOLT METER

The Volt Meter is located on the console panel above the steering wheel in the gauge cluster. The gauge indicates the charging or discharging of the battery.



P4865

FIGURE 5

SCRUB BRUSHES SWITCH

The Brushes Switch is located on the console to the left of the steering wheel in the "SCRUBBING" section. This switch in the position marked "LOWER" will lower the scrub brush deck and activate the three scrub brushes. The Brush Rotation Switch and The Brush Pressure switch can not be activated unless this switch is in the "LOWER" position. This switch in the "RAISE" position will stop the brushes from rotating and raise the scrub brush deck.

BRUSH ROTATION SWITCH

The Brush Rotation Switch is located on the console to the left of the steering wheel in the "SCRUBBING" section. This switch reverses the rotation of the scrub brushes. This switch has two positions "NORMAL" and "REVERSED". This switch can not be activated unless the Scrub Brush Lift Switch is in the "LOWER" position, the switch will light when activated.

BRUSH PRESSURE SWITCH

The Brush Pressure Switch is located on the console to the left of the steering wheel in the "SCRUBBING" section. This switch applies additional downward pressure to the scrub brushes. This switch has two positions "NORMAL" and "HEAVY". This switch can not be activated unless the Scrub Brush Lift Switch is in the "LOWER" position, the switch will light when the switch can be activated.

SQUEEGEE BLADE SWITCH

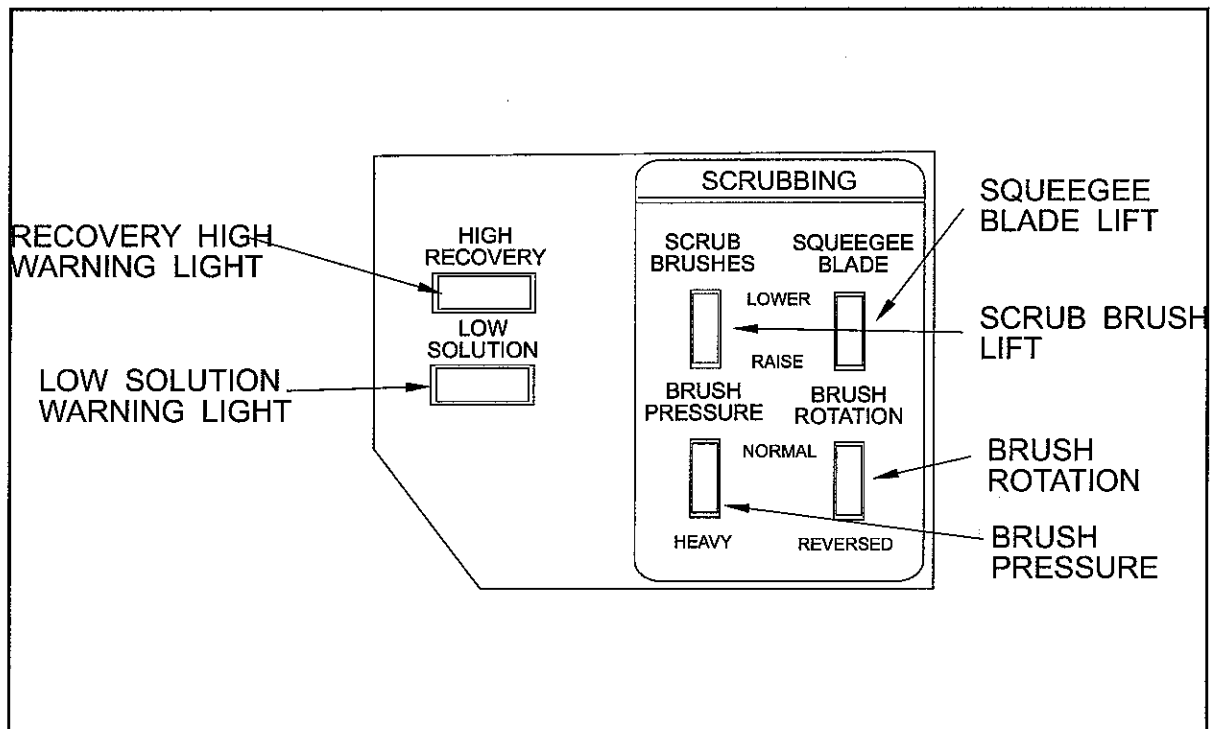
The Squeegee Blade Switch is located on the console to the left of the steering wheel in the "SCRUBBING" section. This switch in the position marked "LOWER" will lower the squeegee and activate the squeegee vacuum. This switch in the "RAISE" position will stop the squeegee vacuum and raise the squeegee. A switch activated by the forward-reverse foot pedal will automatically raise the squeegee if it is in the lowered position and the machine is in reverse.

HIGH RECOVERY WARNING LIGHT

The High Recovery Warning Light is located on the console to the left of the steering wheel beside the "SCRUBBING" section. The recovery warning light will illuminate approximately 5 minutes before the recovery tank is full, giving ample time to complete the scrubbing cycle before the mechanical float shuts off the vacuum to the recovery tank.

LOW SOLUTION WARNING LIGHT

The Low Solution Warning Light is located on the console to the left of the steering wheel beside the "SCRUBBING" section. The Solution Warning Light will illuminate when the solution tank is empty, marking the end of the scrubbing cycle.



P4854

FIGURE 6

OPERATION OF CONTROLS AND GAUGES

HOPPER LIFT - (Variable and Low Dump Machines Only)

The Hopper Lift Lever is located to the left of the steering wheel on the left side of the drivers compartment. This lever, which is marked "HOPPER", raises and lowers the debris hopper to facilitate unloading. .

HOPPER DUMP DOOR - (Variable and Low Dump Machines Only)

The Hopper Dump Door Lever is located to the left of the steering wheel on the left of the drivers compartment. This lever opens and closes the hopper door. This lever is located below the Hopper Lift Door and is marked "DUMP DOOR".

MANUAL DUMP HOPPER - (Manual Dump Hopper Only)

The Manual Dump Hopper Lever is located under the front bumper. To Dump debris, pull the Manual dump lever all the way to the position marked open. Leave the handle in the dump position and back the machine off the pile of debris. When clear of the debris, pull the manual dump lever to the position marked closed.

SOLUTION CONTROL

To apply solution to the scrubbing brushes, push the solution control lever forward until the desired setting is reached. The solution rate is continuously variable from off to approximately 1-3/4 GPM at low and 3-1/2 GPM at high. To stop application of solution, pull back on the lever until it stops at the "off" position.

NOTE

For best results, discontinue application of solution 10 feet before making a 90 and 180 turn or stopping the machine.

The solution warning light will illuminate when the solution tank is empty, marking the end of the scrubbing cycle.

SWEEPING BROOM LIFT CONTROL

The main broom lift control is located to the left of the drivers seat.

To lower the main broom, grasp the lever and pull back to clear the locking notch. Move the lever forward to the first or second notch in the elongated slot. The first notch, "SWEEP", is for normal sweeping (2 to 3 inch [5 to 8 cm.] broom pattern). The second notch, "FLOAT", is for heavy sweeping (4 to 5 inch [10 to 13 cm.] broom pattern).

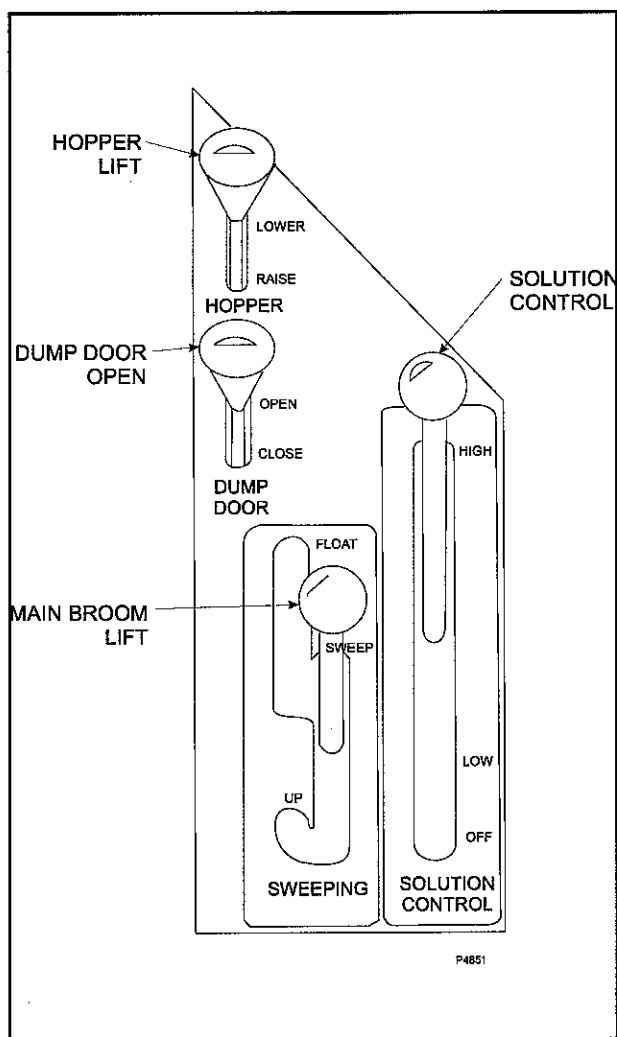
To raise the main broom, pull the lever back and slide into the locking notch. You may operate the main broom in either the "SWEEP" or "FLOAT" position. However, the "SWEEP" position should be used for normal sweeping and will result in increased broom life. The "FLOAT" position should be used only when sweeping extremely uneven areas.

NOTE - (Variable Dump Machines Only)

A switch triggered by the hopper and dump door's position control the sweeping functions, main broom, side broom, dust control, and filter shaker. The hopper must be down and the dump door open before these functions will work.

TURN SIGNAL - 4 Way (Option)

The turn signal option is located on the steering column and works as automotive turn signals work, forward on the lever for right and back on the lever for left. The 4 way flasher will activate when the turn signal lever is pulled out.



P4851

FIGURE 7

THROTTLE

The throttle control is located on the steering column. Pull the knob out and twist to lock for full governed speed. The throttle will tend to return to idle if it is not twisted to lock in governed position. The engine must be operating at full governed speed of 2150 "no load" RPM (broom control off and machine sitting still), to maintain optimum machine travel speed, hopper loading and dust control. Before turning off the key and stopping the engine twist the knob to unlock and push it in.

CHOKE

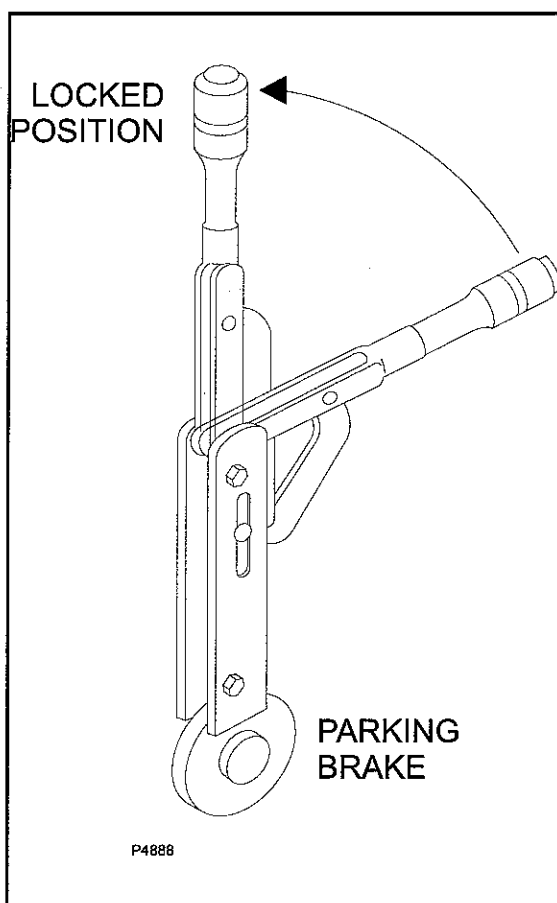
LP and Diesel powered engines do not have a choke. The choke is located on the steering column. The choke governs the mixture of air and fuel during the combustion cycle of the engine operation. The choke should be pulled out during the start of the engine and then gradually pushed back in after engine warm up.

PARKING BRAKE

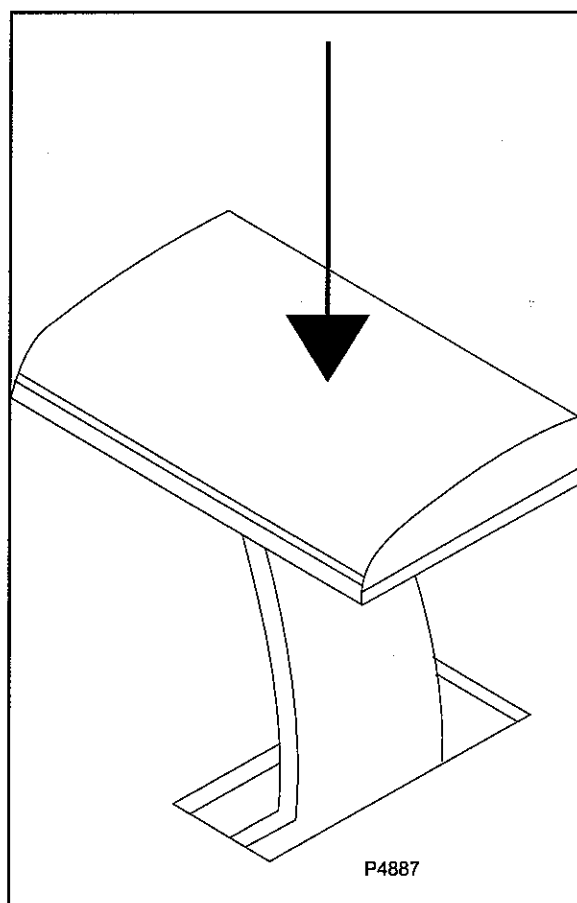
The parking brake lever is located in the left side of the driver compartment floor. This lever when raised to the upright position will "lock" the foot brake pedal in the down position.

FOOT BRAKE

The foot brake pedal is located to the right of the steering column on the floor of the driver compartment. The foot brake on front wheels is a mechanical system actuated by the brake pedal.



P4888 FIGURE 8



P4887 FIGURE 9

OPERATION OF CONTROLS AND GAUGES

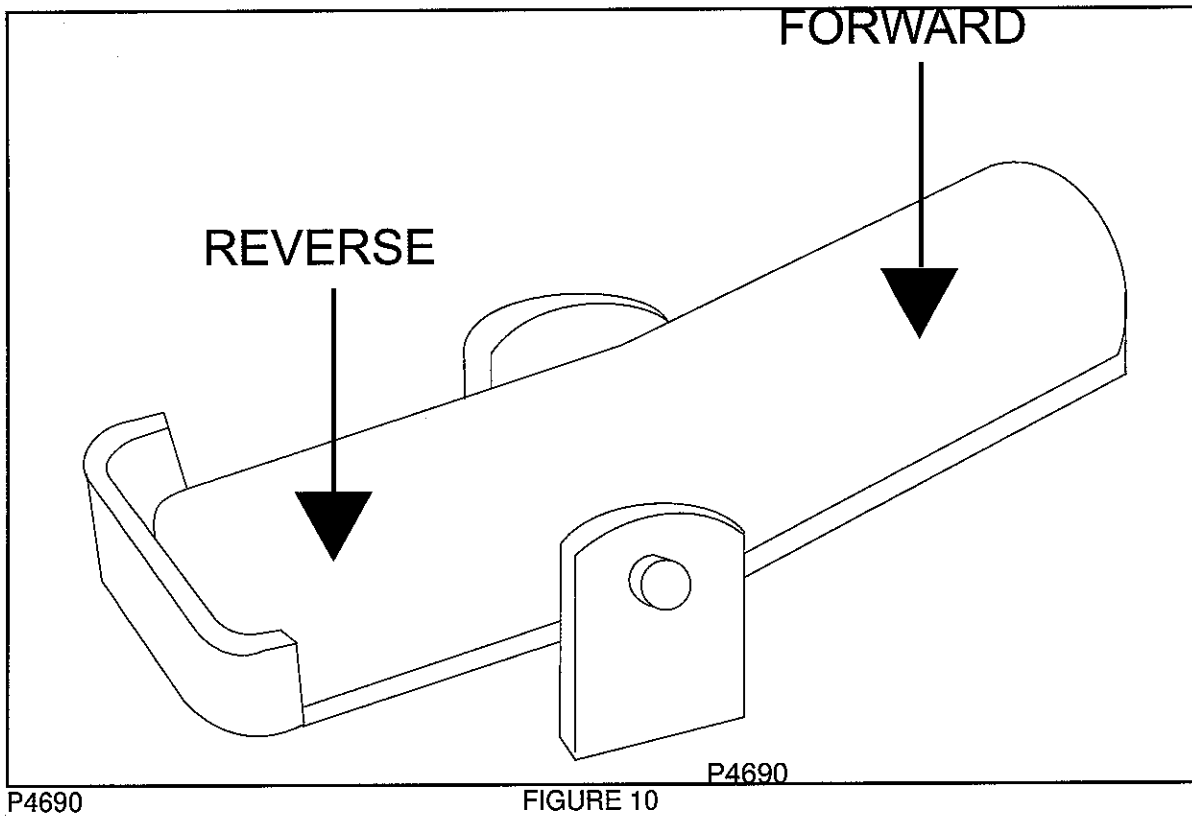


FIGURE 10

ACCELERATOR & DIRECTIONAL CONTROL PEDAL

The accelerator and directional control pedal is located on the floor of the operator's area, to the right of the brake pedal. The accelerator and directional control pedal controls the machine direction and travel speed.

1. Put foot pressure on the upper portion of the pedal. The machine will move forward.
2. Increase the foot pressure on the upper portion of the pedal to increase the forward speed.
3. Put foot pressure on the lower portion of the pedal. The machine will move in reverse.
4. Increase the foot pressure on the lower portion of the pedal to increase the reverse speed.
4. To stop the machine, put light foot pressure on the opposite end of the accelerator and directional control pedal. If the machine is moving forward, put light foot pressure on the lower portion of the pedal. If the machine is moving in reverse, put light foot pressure on the upper portion of the pedal.

BACKUP ALARM SWITCH

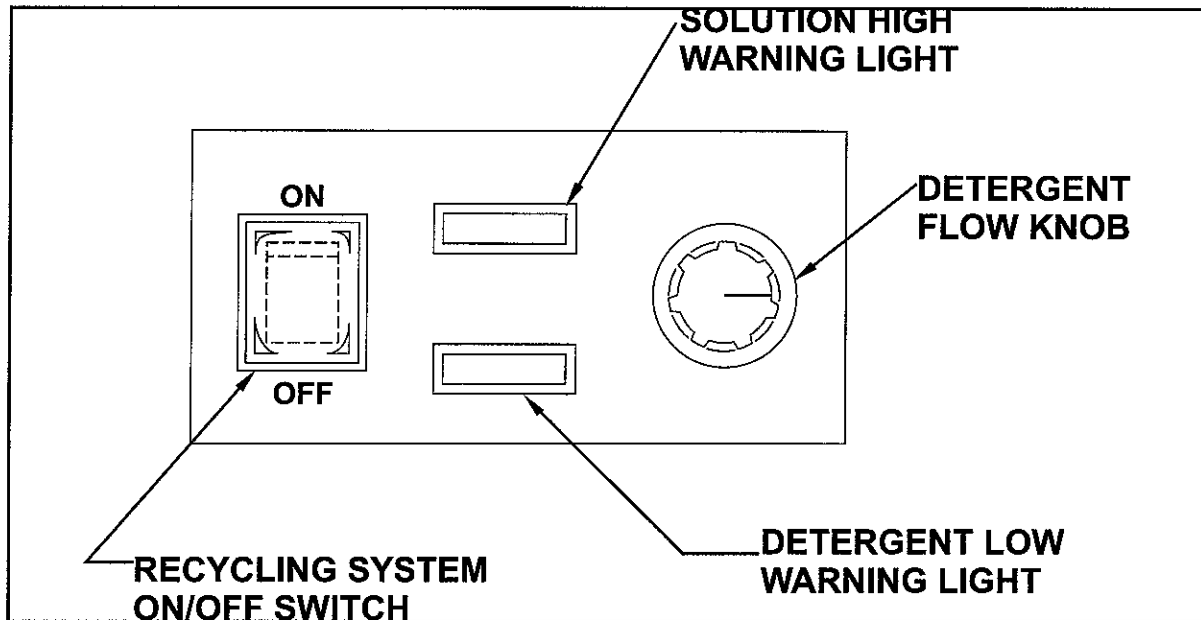
A switch that is located under the lower section of the Accelerator and directional control pedal operates the back up alarm. The alarm makes a loud audible noise when the machine is being driven in reverse.

SEAT ADJUSTMENT

This lever is located on the right of the seat. This lever allows the seat to be adjusted forward or back when the lever is moved.

CAMEL SYSTEM OPERATING INSTRUCTIONS

THE CAMEL RECYCLING SYSTEM CONTROL PANEL



P4895

FIGURE 11

THE CAMEL RECYCLING SYSTEM ON/OFF SWITCH

This switch turns the camel recycling system on and off.

SOLUTION HIGH WARNING LIGHT

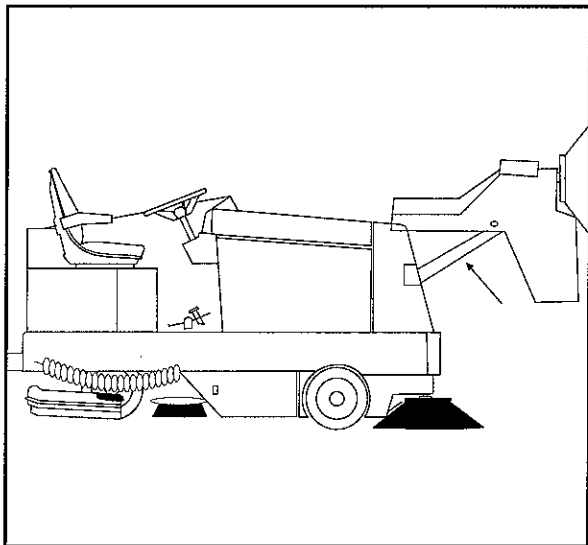
The solution high warning light will come on if the solution tank is too full of water from the recycling system.

DETERGENT LOW WARNING LIGHT

The detergent light will illuminate when the detergent tank is low, warning the operator to add detergent.

DETERGENT FLOW KNOB

This rotary knob controls the detergent flow into the scrubbing solution. The operator may choose from any detergent setting, for light to heavy cleaning applications. The detergent light will illuminate when the detergent tank is low, warning the operator to add detergent.



P4928

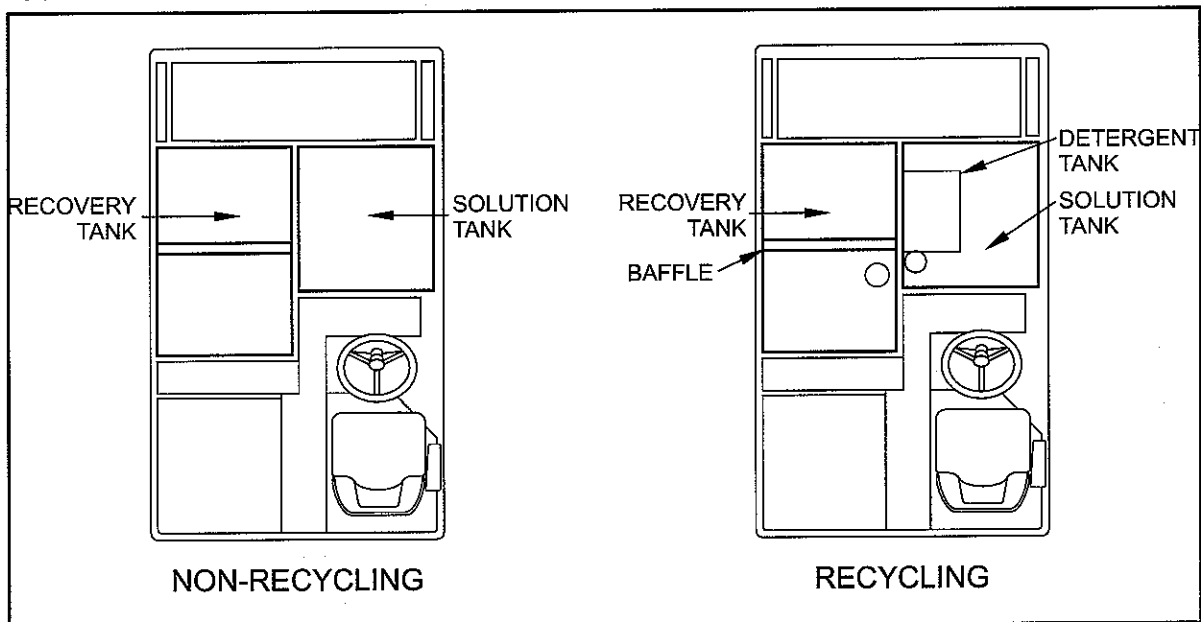
FIGURE 12

HOPPER SAFETY LOCK ARM (Variable Dump Only)

The Hopper Safety Lock Arm is located under the hopper assembly. When the hopper is raised, the Safety Arm must be engaged before any work can be done under the hopper. After the work is complete the safety arm must be disengaged.

CAMEL SYSTEM OPERATING INSTRUCTIONS

THE SCRUBBING SYSTEM - HOW IT WORKS



P4795

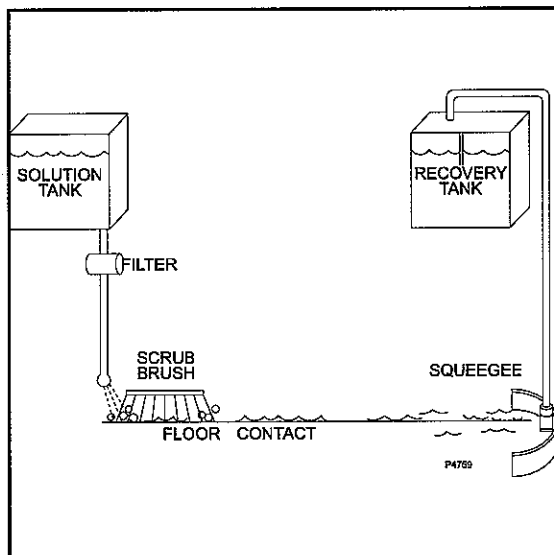
FIGURE 13

There are two scrubbing systems available for the 7700 machine, the non-recycling or standard scrubbing system and the recycling or camel scrubbing system.

THE NON-RECYCLING OR STANDARD SCRUBBING SYSTEM - HOW IT WORKS

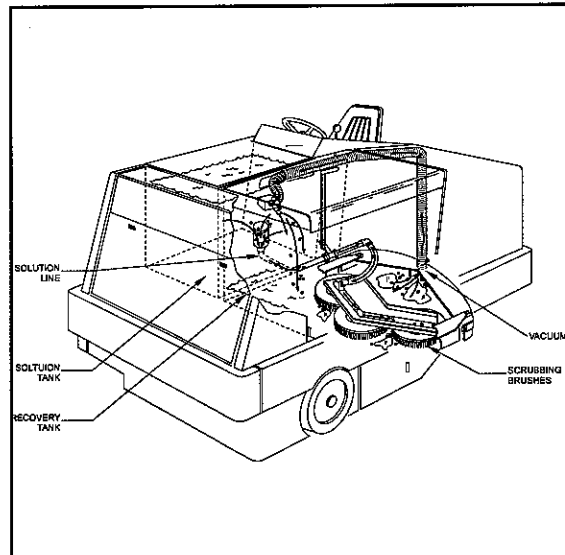
During the scrubbing process (shown in Figure 14), detergent solution water from the solution tank is fed to the solution line, where it is fed to the floor where three disc scrubbing brushes aggressively work to dislodge soilage.

After scrubbing, the dirty solution is vacuumed from the floor and discharged into the containment chamber in the forward portion of the recovery tank, where a system of baffles helps to clarify the solution. Sensors in each tank will indicate by lights on the control panel when the water in the solution tank is too low or when the water in the recovery tank is too high.



P4759

FIGURE 14



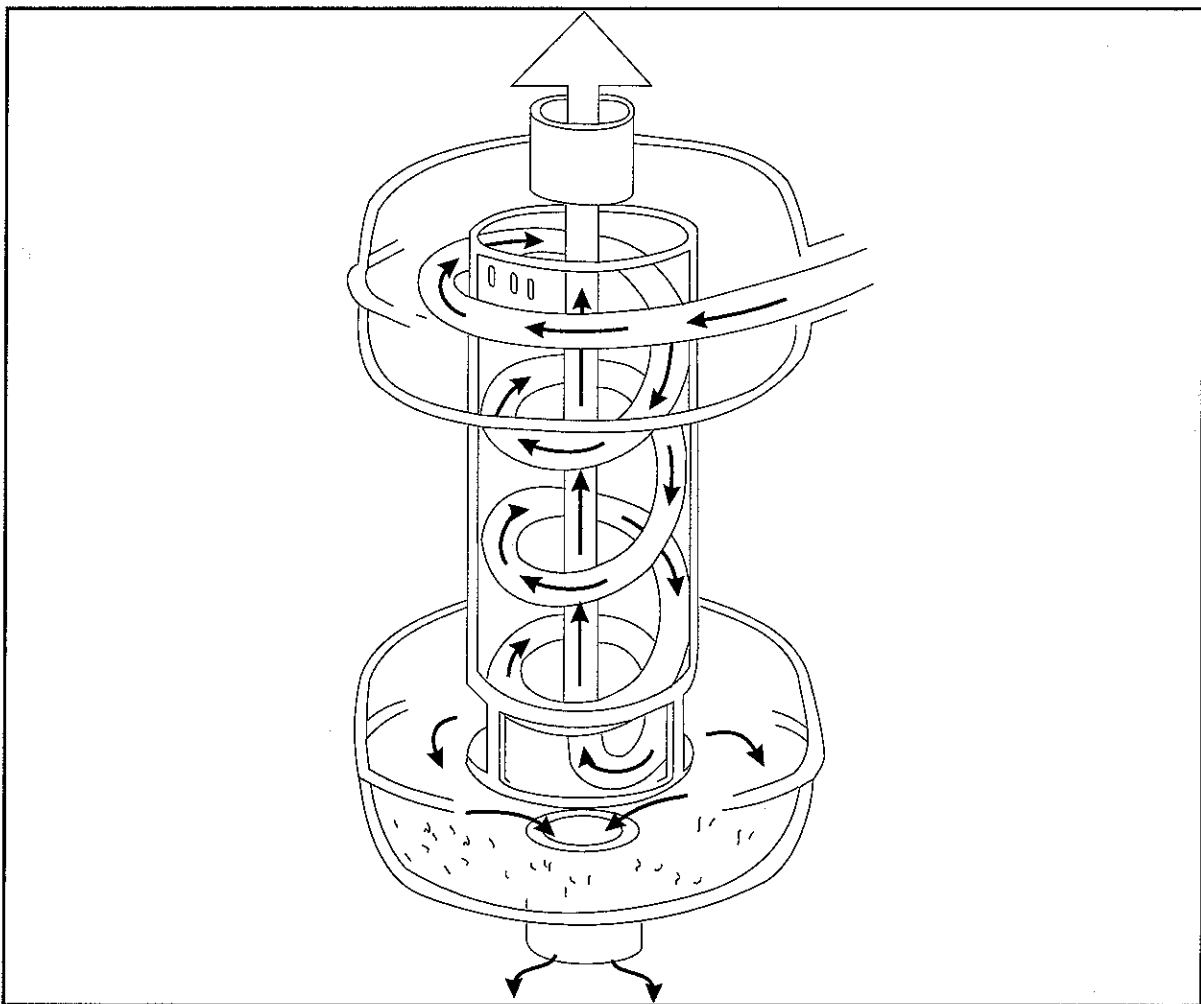
P5103

FIGURE 15

THE RECOVERY OR CAMEL SYSTEM - HOW IT WORKS

During the scrubbing process (shown in Figure 17), filtered water from the solution tank is fed to the solution line, where it combines with detergent from the metering pump. This mixture is then fed to the floor where three disc scrubbing brushes aggressively work to dislodge soilage.

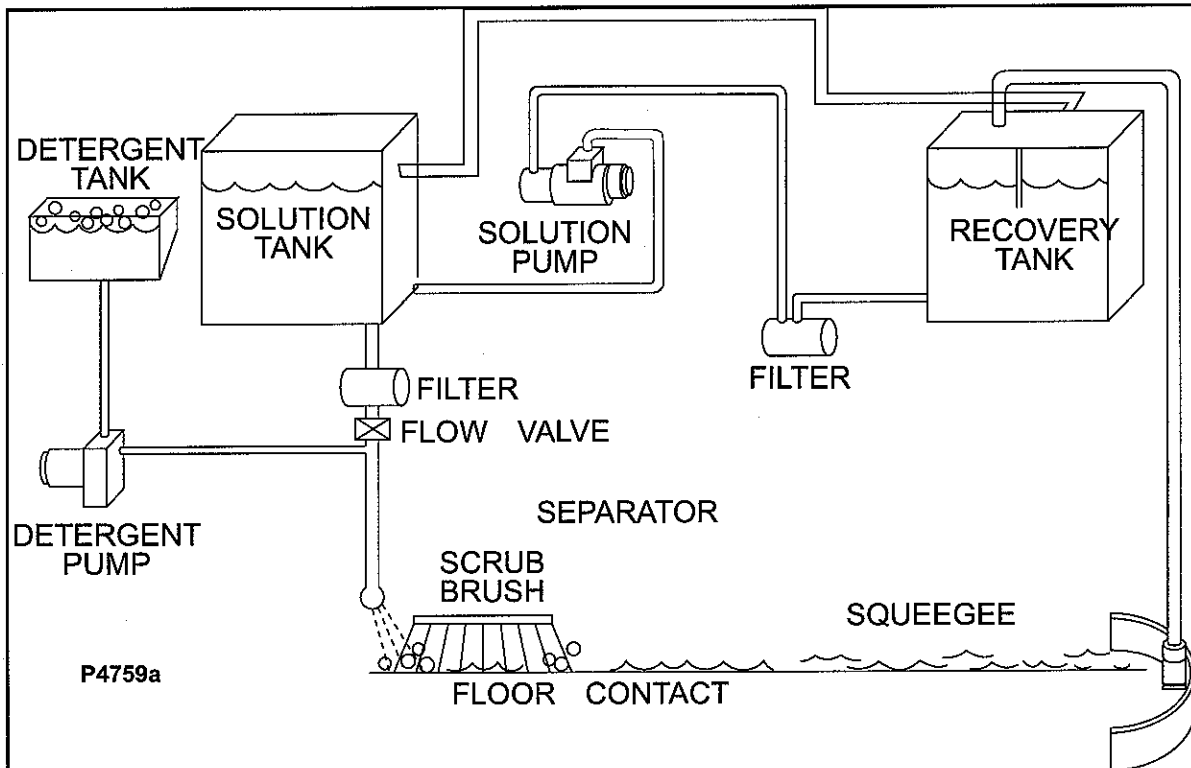
After scrubbing, the dirty solution is vacuumed from the floor and discharged into the containment chamber in the forward portion of the recovery tank, where a system of baffles helps to clarify the solution on its way to the pumping chamber in the rear of the recovery tank. At intervals, a system of sensors activates the recycling pump, which sends filtered solution from the pumping chamber on its way to the centrifugal separator which aids in clarifying the solution for reuse. In the separator, (shown in Figure 16), solids in the solution are centrifugal forced to the perimeter of the separation chamber on their way to the collection chamber where they lose their velocity and are purged into the containment chamber. The solids free solution is now drawn to the separator's vortex and up through the separator's outlet routed to the solution tank. Here, it is ready to be mixed with fresh, metered detergent and repeat the cycle.



P4177

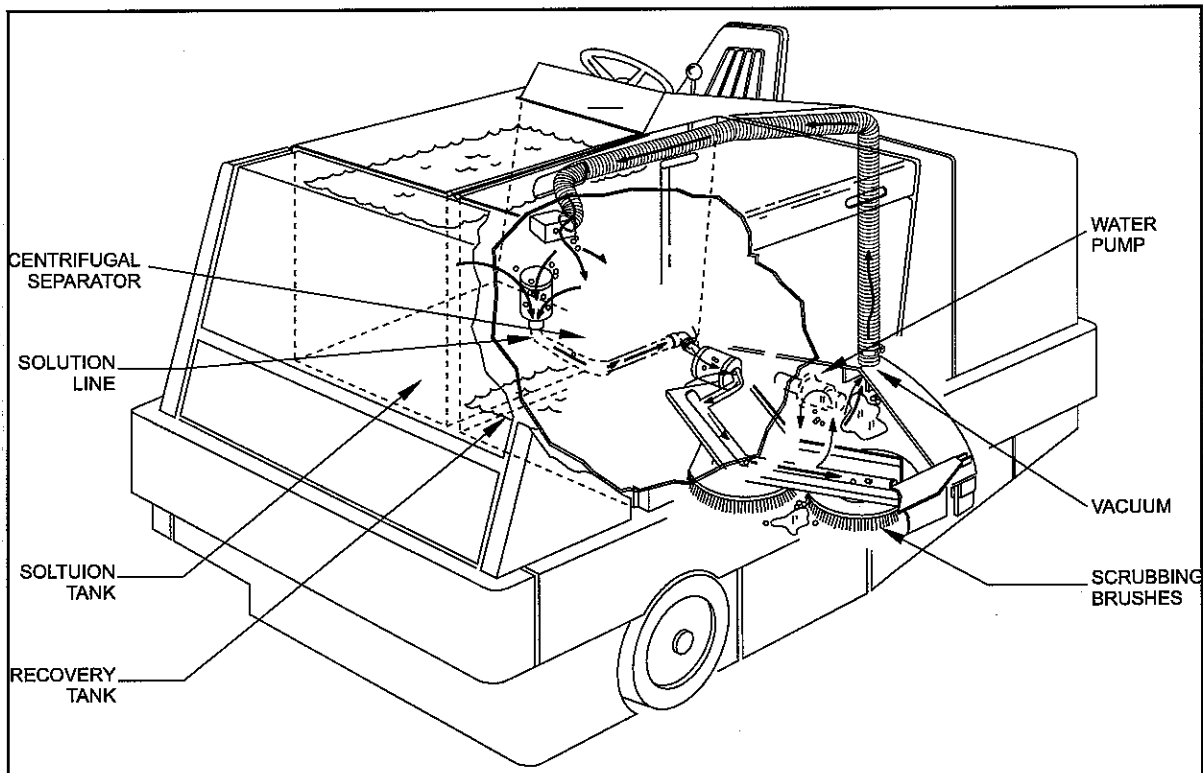
FIGURE 16

CAMEL SYSTEM OPERATING INSTRUCTIONS



P4759a

FIGURE 17

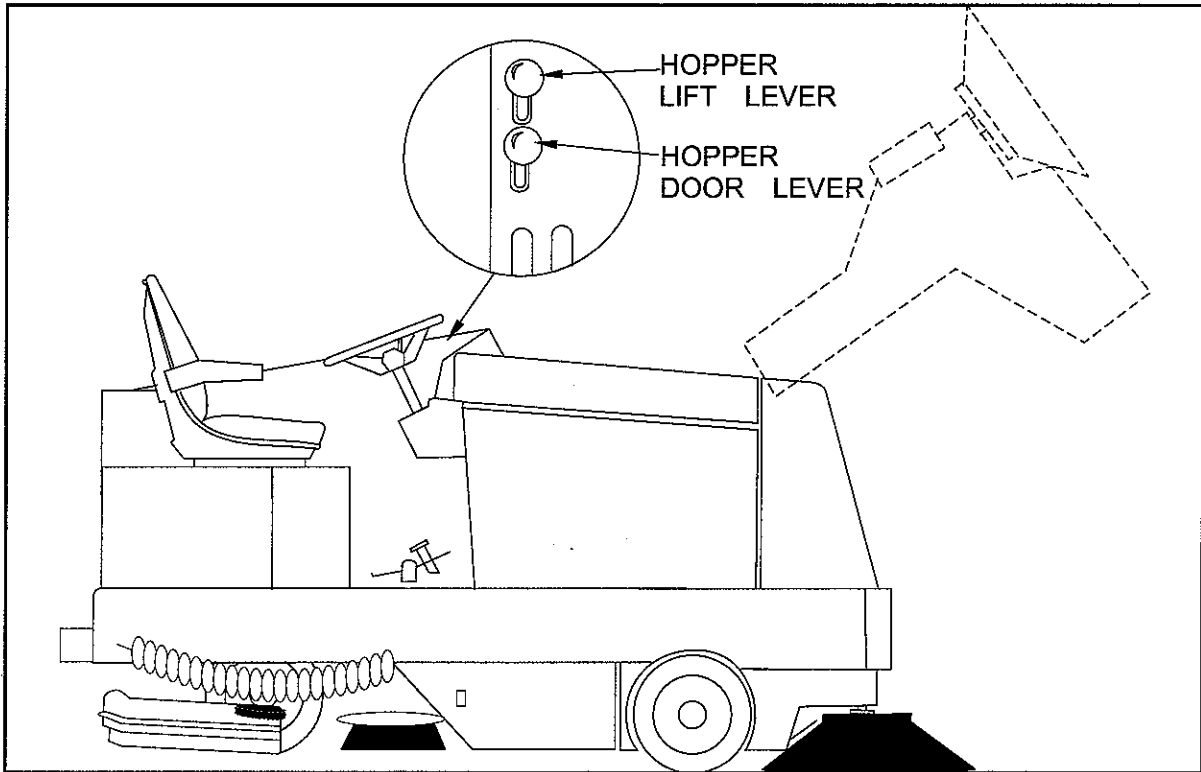


P4754

FIGURE 18

THE VARIABLE DUMP SWEEPING AND DUST CONTROL SYSTEMS - HOW THEY WORK

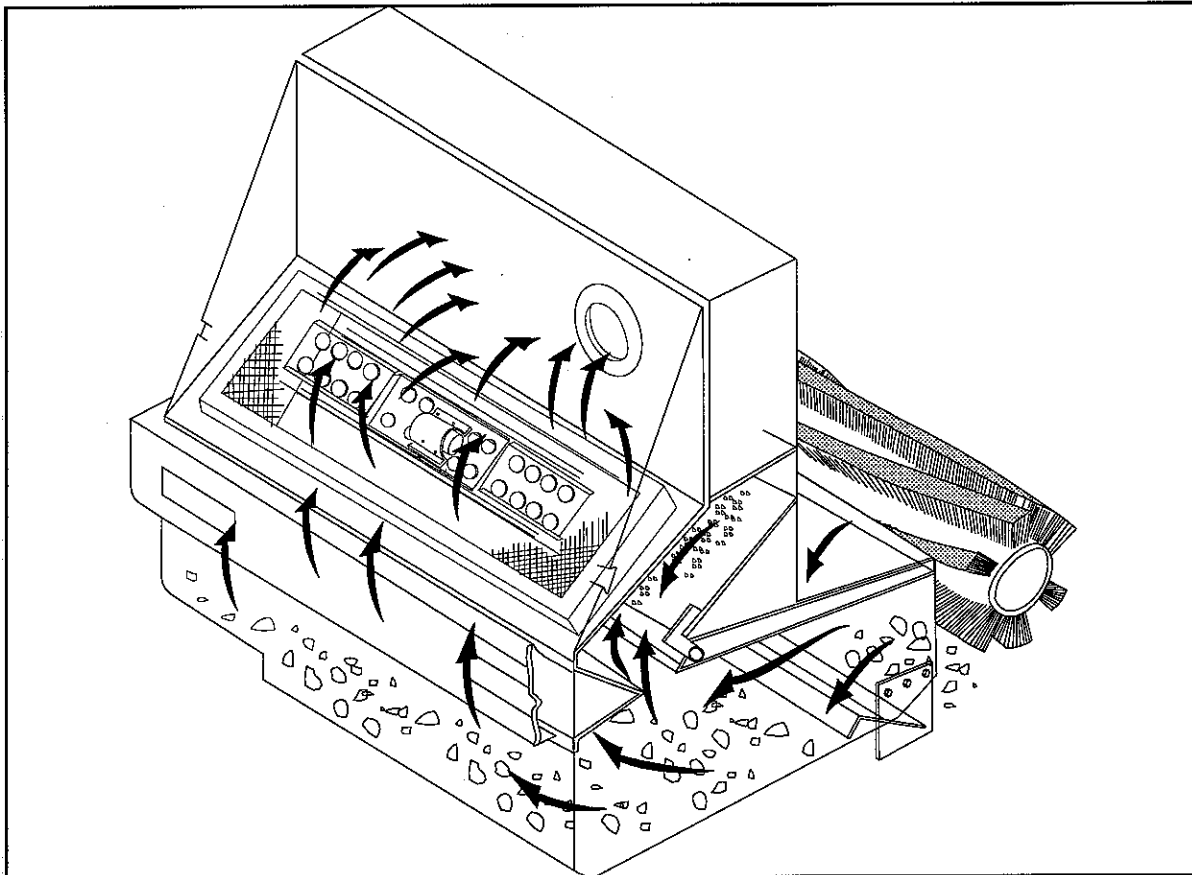
Variable Dump 7700 machines are equipped with a sweeping and dust control system. The sweeping system has two versions, the variable dump system and the low dump system. These systems relate to what level the debris hopper can be emptied. Figure 19 shows the low dump position and the highest position for the variable dump.



P5104

FIGURE 19

CAMEL SYSTEM OPERATING INSTRUCTIONS



P5105

FIGURE 20

The debris from sweeping is thrown into the hopper (Figure 20). The baffle system that is built into the variable dump debris hopper is designed to minimize dust in the air while the machine is sweeping. The impeller vacuum fan pulls the lighter dust up and through a baffle system. The Pre-Clean Flap separates the heavier dust particles to an area below the filters. The dust filters capture the lighter dust particles. This allows the dust filters to remain cleaner and need less shaking to remove dust. When the dust filters become clogged the filter shaker switch should be pushed to start the dust shaker cycle. This will extend the life of the filters.

FILLING THE SOLUTION TANK

NON-RECYCLING or Standard Scrubbing System

1. Make sure the solution control lever is in the "Off" (rear) position.
2. Open the solution tank cover of the solution (right hand) tank.
3. Fill the tank with 100 gallons of water and the correct mixture of AMERICAN-LINCOLN #100 Industrial Cleaner for the job on hand.
4. Close the solution tank cover of the solution (right hand) tank.

RECYCLING or Camel System

1. Make sure the solution control lever is in the "Off" (rear) position.
2. Open the solution tank cover of the solution (right hand) tank.
3. Fill the solution tank as outlined above with 100 gallons of pure water.
4. Fill the detergent tank with 5 gallons of AMERICAN-LINCOLN #100 Industrial Cleaner.
5. Close the solution tank cover of the solution (right hand) tank.



WARNING

To prevent oversudsing and machine damage, use only AMERICAN-LINCOLN Industrial Cleaning Solution # 100.



WARNING

DO NOT put gasoline, combustible or flammable material in the solution, recovery or detergent tanks.

NOTE

Before starting the engine, perform the pre-start checks.

PRE-START CHECKLIST

1. Clean engine air filter element
2. Check engine oil level
3. Check radiator coolant level
4. Check hydraulic fluid level
5. Check fuel level
6. Check all systems for leaks
7. Check brakes and controls for proper operation

BEFORE STARTING ENGINE

1. Set parking brake
2. Make sure all controls are in the "Off" position

TO START ENGINE

1. Be sure accelerator and directional control pedal is in neutral.
2. Pull choke if engine is cold (Gas engine only). If machine is stored in extremely cold temperatures under, 32° f. (0° C.), pull choke and hold throttle open approximately halfway when starting engine.
3. Turn key to "On" position and hold it until the engine starts. Push choke in when engine starts.
4. If engine fails to start after following the above procedures, refer to Engine Manual Section.

OPERATING INSTRUCTIONS



WARNING

It is not advisable to store the machine in below freezing temperatures unless all fluids have been drained from the detergent solution and recovery tanks and associated systems. When machine has been stored in below freezing temperatures, run engine at not over 1/2 throttle with machine standing still for 5-10 minutes to warm engine and hydraulic oil.

POST START CHECKLIST (Engine Running)

1. Check broom pattern.
2. Check squeegee deflection.

TO TRANSPORT MACHINE (No scrubbing or sweeping)

1. Be sure the sweeping broom, brushes and squeegee are in the "Up" position with all other controls in the "Off" position.
2. Release parking brake.
3. Pull throttle control full out and twist to lock.
4. Push forward on the directional control pedal to place the machine in motion.
5. Vary your foot pressure on the directional control pedal to obtain desired travel speed.
6. To stop, allow directional control pedal to return to neutral (centered) position. (Pedal will automatically return to neutral when foot pressure is released). FOR NORMAL OPERATION, DEPRESS DIRECTIONAL CONTROL PEDAL WITH HEEL INTO NEUTRAL.
7. Push engine throttle down. Turn key to "Off".
8. Set parking brake.

TO BEGIN THE CLEANING OPERATION

1. Choose the mode of operation (recycling CAMEL or non-recycling STANDARD) as dictated by the machine fill or machine type.
2. Bring engine to full RPM.
3. Lower the main broom.
4. Lower the side broom.
5. Turn on the main and side brooms.
6. Sweep for the length of the machine.
7. Move recovery switch to the "On" position.
8. Lower the scrub brushes.
9. Lower squeegee to the "Lower" position.
10. Move solution control lever to the desired setting.
11. Turn on the Recovery Switch for the Camel Recycling system, if applicable.
12. Begin scrubbing operation.

Single sweep and scrub the average floor with light to medium soilage. In this operation the cleaning is accomplished in one pass, with simultaneous solution feed, sweeping, scrubbing and dirty water pick up. The rate of solution feed and the speed of travel required will vary with floor condition. This knowledge will come with operator experience.

TO STOP THE CLEANING OPERATION

Discontinue the cleaning operation whenever a solution or recovery warning or stop light is illuminated.

The solution light will illuminate when the solution tank is empty. At this time, discontinue the scrubbing cycle, put all controls in position for transport and drive to the drain area. See Transport Machine Section Page 31.

The recovery warning light will illuminate approximately 5 minutes before loss of vacuum to the recovery tank. This warning period should give ample time to complete the scrubbing cycle and transport or scrub to the drain area.

NOTE

After stopping the engine, perform these post operation checks.

POST OPERATION CHECKLIST

1. Clean debris hopper.
2. Check sweeping broom for wear or damage.
3. Check all flaps for wear, damage and adjustment.
4. Drain and clean solution tank (CAMEL system)
5. Clean solution filter screen (CAMEL system)
6. Drain and clean recovery tank.
7. Clean recovery tank screen and float.
8. Check manifold and vacuum hoses for debris or obstructions, back flush if necessary.
9. Check scrub brushes for wear or damage.
10. Check rear and side squeegees for wear, damage and adjustment.
11. Fill fuel tank.
12. Check all systems for leaks.

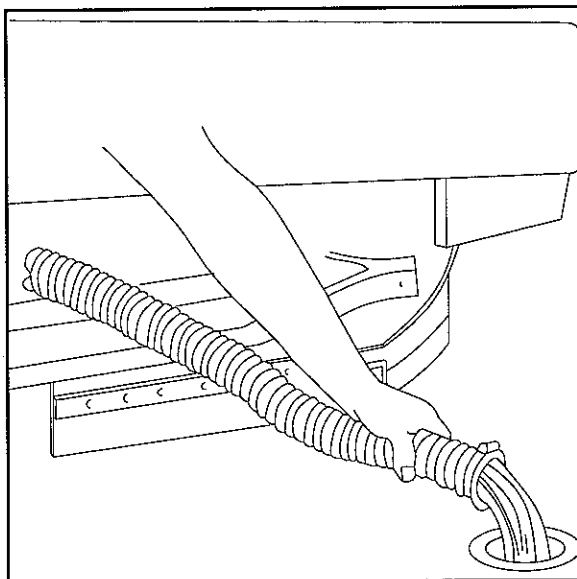
TO DRAIN SOLUTION TANK (RECYCLING OPERATION) (Camel System)

Draining the solution tank is accomplished by a 3 foot (92 cm.) long drain hose located behind the right hand brush chamber door. To drain the tank, completely open the brush chamber door so that it comes to rest against the machine, lower the hose, remove the plug and place in a suitable floor drain. When the draining operation is completed, clean the solution tank as outlined below.

TO CLEAN SOLUTION TANK (RECYCLING OPERATION) (Camel System)

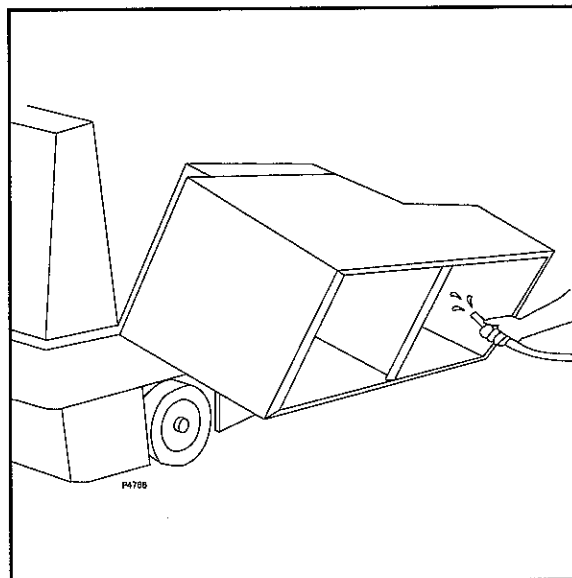
The large access cover facilitates cleaning the solution tank. Flush all deposits from the tank, also flush all probes and the solution line strainer to remove any deposits, remove strainer if necessary. When the cleaning operation is completed, plug and replace the hose. Close and secure door and covers.

OPERATING INSTRUCTIONS



P3903a

FIGURE 21



P4766

FIGURE 22

TO DRAIN RECOVERY TANKS

A 3 foot long drain hose for the recovery tank is located behind the left hand brush chamber door. To drain the tank, completely open the brush chamber door so that it comes to rest against the machine, lower the hose, remove the plug and place in a suitable floor drain. Open the recovery tank and remove the drain plug. When the draining operation is completed, flush and clean recovery tank as outlined below.

TO CLEAN RECOVERY TANK

Clean out of the recovery tank is facilitated by the large access cover and tip out tank.

With the recovery tank in the tipped out position, flush all sand, sludge, debris, etc. out of the tank, then replace the tank and flush the manifold, ball float screen and level switch to remove any deposits.



WARNING

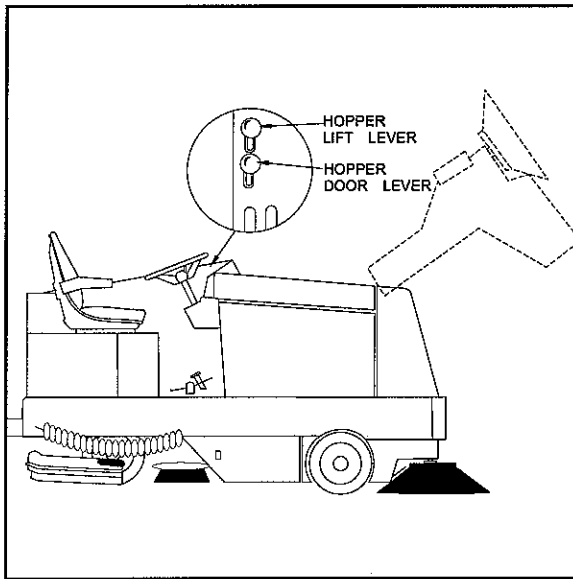
Do not attempt to flush large amounts of tank debris through the drain hose, this will cause clogging and hamper future drainage. Always flush the recovery tank with clean water at the end of each cleaning cycle. Never let debris accumulate, settle and harden in the tank or on associated hardware.

DOUBLE LID RECOVERY TANK

The Recovery Lid is a double lid. Removing the four hex head bolts, located in handle holes on the lid can open the lid. The oil cooler and recovery tank vacuum pump are located in the lid.

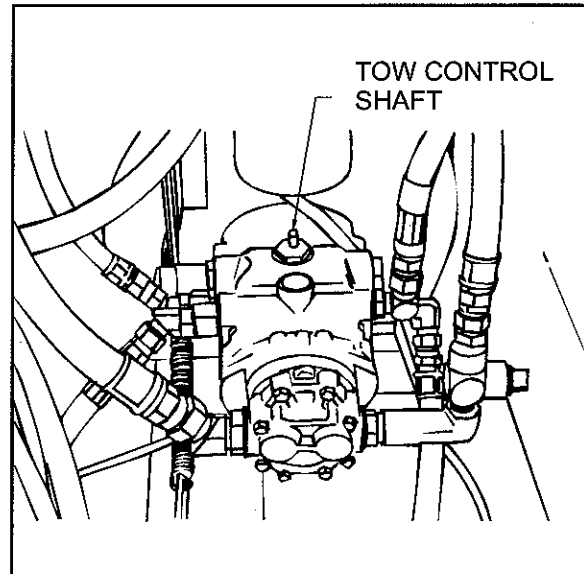
OIL COOLER

The oil cooler is located in the recovery tank double lid.



P5104

FIGURE 23



P4183

FIGURE 24

TO EMPTY DEBRIS HOPPER

1. Transport or sweep and scrub to the dump site.
2. Close the hopper dump door with the hopper dump lever.
3. Raise the hopper with the hopper lift lever to the desired level.
4. Move the machine forward, over the dumpster, if necessary.
5. Open the hopper dump door with the hopper dump lever.
6. Lower the hopper with the hopper lift lever to the normal operation position.

NOTE (Variable and Low Dump Only)

The sweep functions - main broom, side broom, dust fan, and filter shakers - only work when the hopper is down and the dump door is open.

TOWING INSTRUCTIONS (See Figure 24)

1. Locate tow control shaft extension as shown in Figure 24. (see arrow)
2. To open hydraulic circuit to wheel drive motor, turn shaft 90 so that the flats on the shaft are parallel to the front axle.
3. After towing, turn shaft 90 so that the flats on the shaft are parallel to the pump centerline.

SERVICE CHART

For service assistance, consult the yellow pages under power sweepers and scrubbers. For best performance, replace worn parts with genuine AMERICAN-LINCOLN parts.

EVERY 8 HOURS or DAILY operation check and clean/adjust if necessary:

1. Inspect panel filters for damage and clean.
2. Check engine oil level.
3. Hydraulic fluid level.
4. Check radiator core for blockage.
5. Check all flaps for wear or damage.
6. Check brooms for wear or damage, adjust as required.
7. Panel filters (clean side) for leakage.
8. Check brake pedal and parking brake.
9. Check for LPG odor at connections. LPG
10. Check water separator. Diesel
11. Check engine air cleaner.
12. Check hydraulic oil filter.
13. Check coolant level.

50 HOUR (WEEKLY) MAINTENANCE CHECKLIST

14. Solution tank (recycling or CAMEL system).
15. Solution filter screen (recycling or CAMEL system).
16. Recovery tank.
17. Recovery tank screens and filters.
18. Scrub brushes for wear or damage.
19. Rear and side squeegees for wear or damage.
20. Check tension on all belts.
21. Check battery electrolyte level. (Unless Maintenance Free Battery)
22. Check all hydraulic hoses for wear or cuts.
23. Rotate main brush (end for end).
24. Clean or replace panel filters.

Perform recommended engine maintenance (see engine manual if applicable).

100 HOUR MAINTENANCE CHECKLIST

25. Change crankcase oil.
26. Change engine oil filter.
27. Lubricate drive wheel swivel wheel bearings and steering rack guide (engine side above rear wheel).
28. Lubricate front wheel bearings.
29. Lubricate all moving joints.
30. Check brake pads for wear and adjust accordingly.
31. Lubricate all 6 DANHOUSER Bushings with NAPA #765-1363 or equivalent anti-seize lubricant. The bushings are located on the steering, scrub deck lift, squeegee lift, main broom lift, both threaded ends of the throttle cable and variable dump door cylinders. Perform recommended engine maintenance (see engine manual if applicable).

250 HOUR MAINTENANCE CHECKLIST

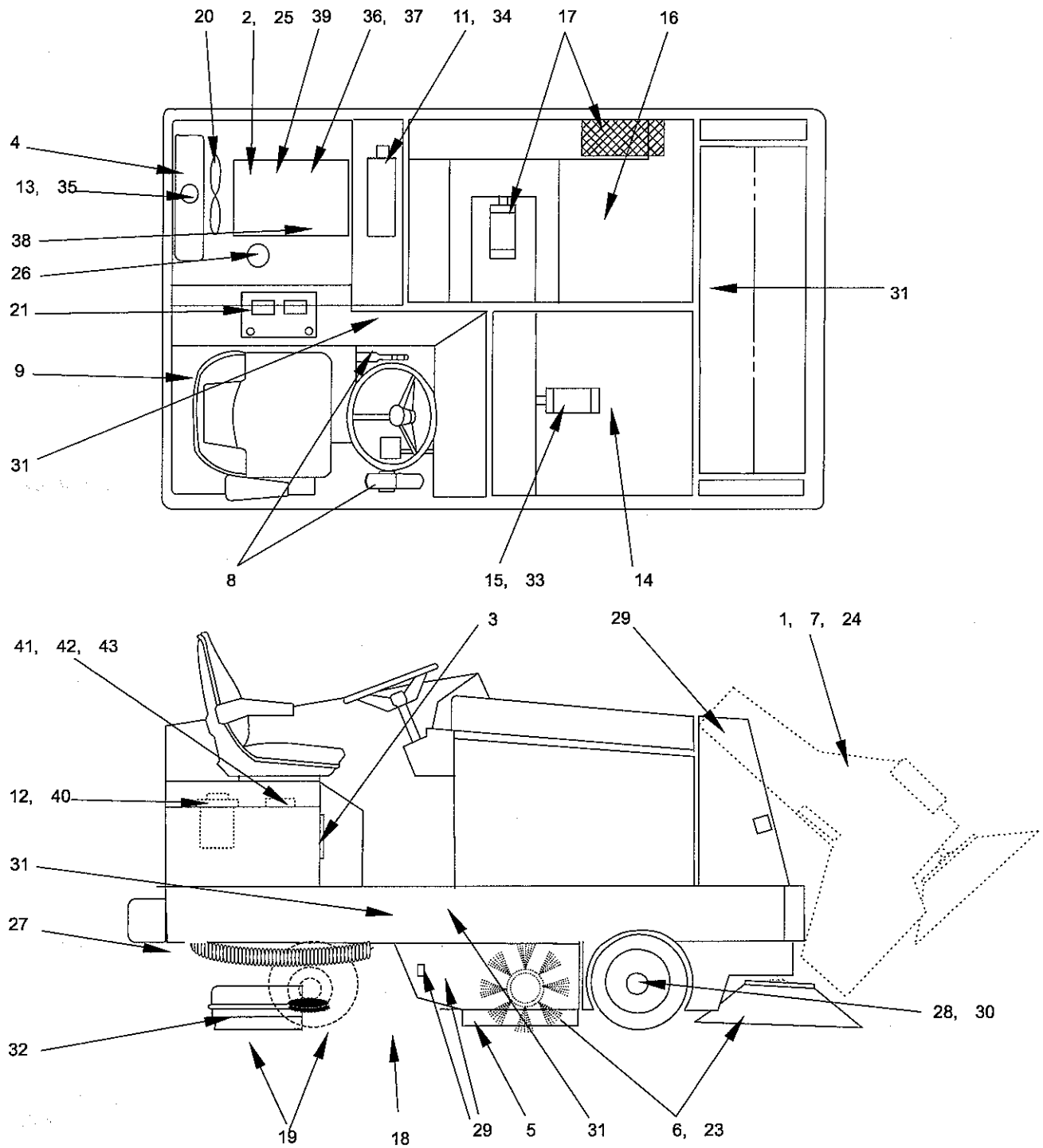
32. Lubricate squeegee casters.
33. Clean solution tank and filter screen.
34. Replace engine air filter element.
35. Flush radiator coolant system.
36. Remove spark plug - clean or replace. LPG, Gas
37. Check distributor and points - service or replace. LPG, Gas
38. Clean and lubricate governor & choke linkage. LPG, Gas
39. Replace fuel filter.
40. Replace hydraulic filter element.

Perform recommended engine maintenance (see engine manual if applicable).

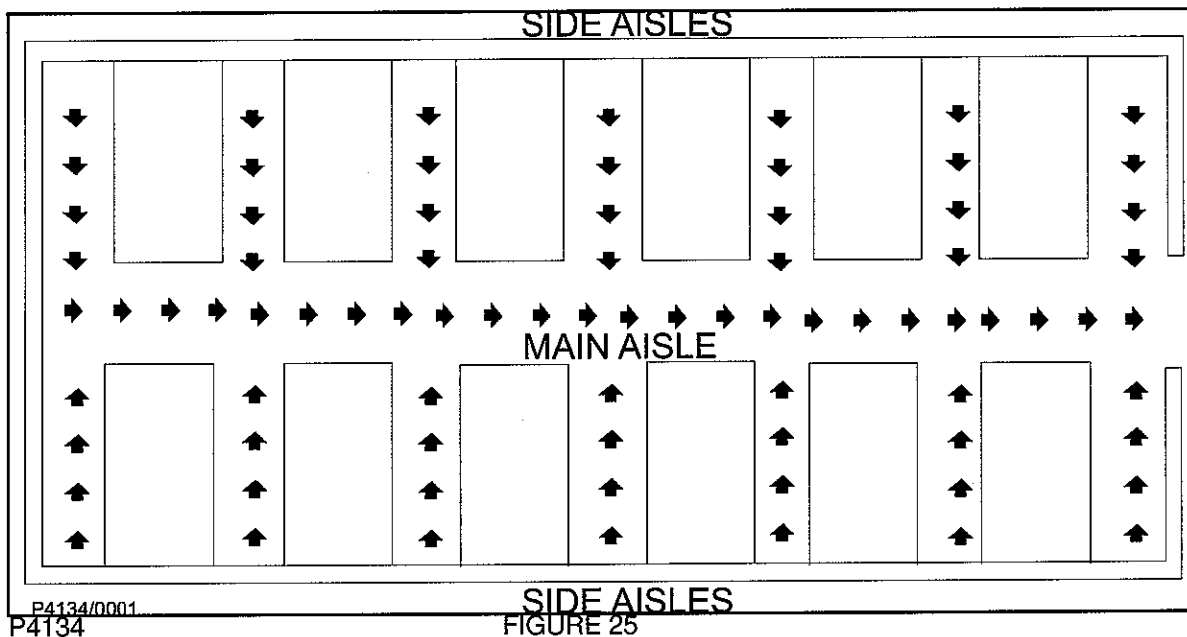
400 HOUR MAINTENANCE CHECKLIST

41. Clean hydraulic reservoir.
42. Clean hydraulic intake strainer.
43. Change hydraulic fluid.

Perform recommended engine maintenance (see engine manual if applicable).



HELPFUL HINTS FOR CLEANING OPERATION



WARNING

Do not turn the steering wheel sharply when the machine is in motion. The sweeper is very responsive to movement of the steering wheel. Do not make sudden turns.

Scrub in straight paths. Do not bump posts. Do not scrape the sides of the machine.

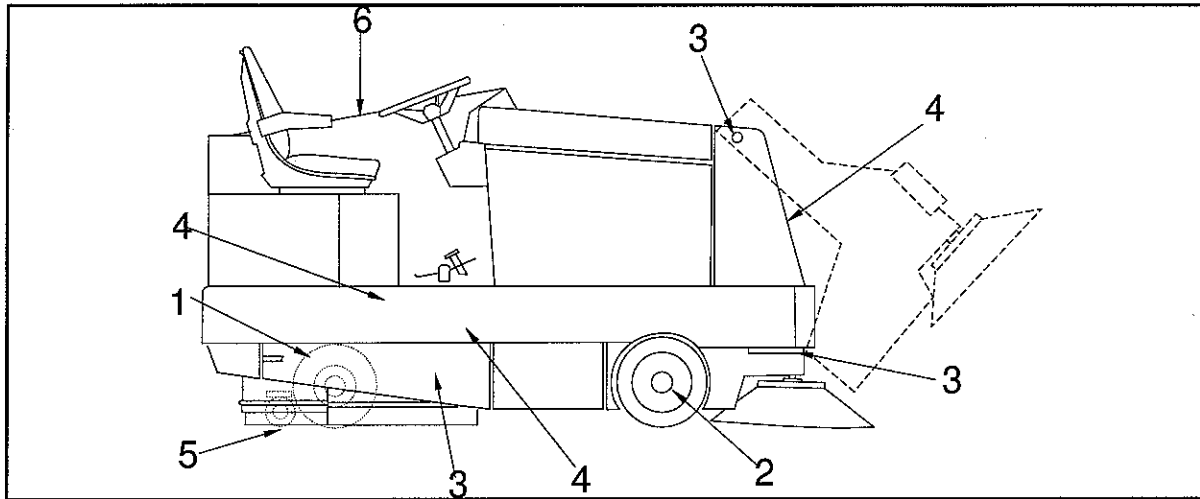
When the machine is in motion, do not push the directional/speed control pedal all the way forward. This is the same as starting in "High" and will put a strain on the motor and drive system.

1. Plan your sweeping and scrubbing in advance. Try to arrange long runs with minimum stopping and starting. Sweep debris from narrow aisles out into main aisle ahead of time. Do an entire floor, or section at one time.
2. Pick up oversize debris before sweeping.
3. Allow a few inches of overlap of sweep and scrub paths. This will eliminate leaving dirty patches.
4. Don't turn steering wheel too sharply when machine is in motion. The machine is very responsive to movement of the steering wheel - so avoid sudden turns.
5. Try to follow as straight a path as possible. Avoid bumping into posts or scraping the sides of the machine.
6. When placing the machine in motion, avoid slamming the directional control pedal all the way forward suddenly. This is equivalent to starting out in "HIGH" and puts needless strain on the engine and drive system.
7. Always allow the machine to warm up before operating in cold temperatures.
8. Periodically turn the sweeping broom end for end to prevent the bristles from "setting" in one direction.

NOTE

Replace sweeping broom when bristles are worn to 3 inch (8 cm.) length. To order replacement brooms, see page 209. Replace disc brushes when bristles are reduced to 1/2 inch (1.3 cm.) in length. To order replacement brushes, see page 210. Replace squeegee rubbers when all usable edges have become rounded with wear, impairing the wiping action.

LUBRICATION



P4727

FIGURE 26

100 Hour Lubrication

1. Lubricate drive wheel swivel, wheel bearings and steering rack guide.
2. Lubricate front wheel bearings.
3. Lubricate all moving joints.
4. Lubricate all 6 DANHOUSER Bushings with NAPA #765-1363 or equivalent anti-seize lubricant. The bushings are located on the steering, scrub deck lift, squeegee lift, main broom lift, both threaded ends of the throttle cable and the variable dump door cylinders.

250 Hour Lubrication

5. Lubricate squeegee casters.
6. Lubricate governor & choke linkage.

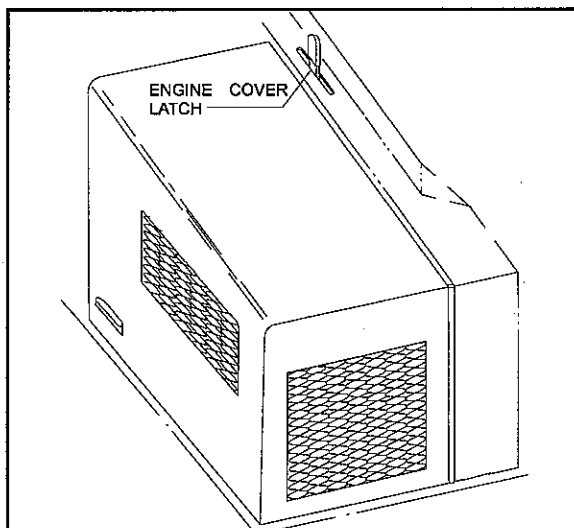
Use a good grade multipurpose grease. Avoid use of too much grease.



WARNING

Only grease these units while they are in the raised position. Application of grease while the squeegee and the scrub deck are lowered will fill an empty cavity. Avoid too much grease.

All other moving joints should receive a few drops of #10 oil every 100 hours to keep them from rusting and/or binding.



P5107

FIGURE 27

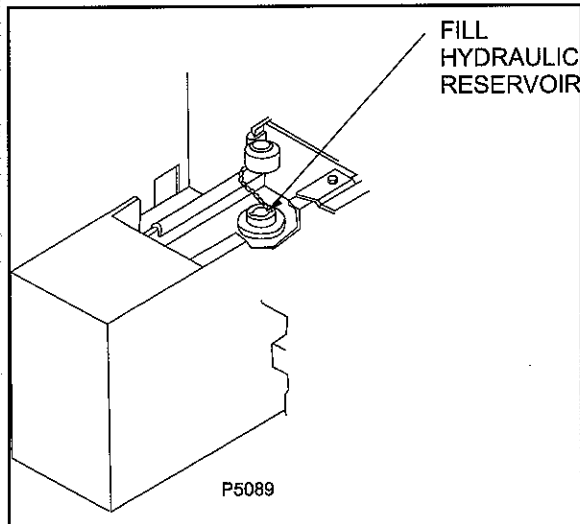
HOW TO OPEN THE ENGINE COVER

The engine cover encloses the entire engine, radiator and hydraulic reservoir assembly. The cover can be swung open to completely clear the assembly and allow easy access to the engine.

1. Release the engine cover latch.
2. Lift the cover slightly to clear the engine cover stop.
3. Swing the cover open.

GENERAL MACHINE MAINTENANCE

HYDRAULICS



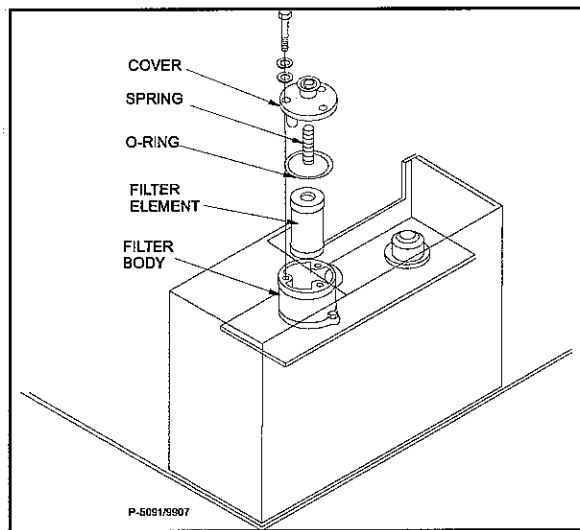
P5089 FIGURE 28

HOW TO FILL THE HYDRAULIC RESERVOIR

1. Access to the hydraulic reservoir is located beneath the driver's seat.
2. Open the hydraulic reservoir breather filter cap.
3. Remove any debris that is in the breather filter cap screen.
4. Fill the reservoir until the fluid shows at the "FULL" line on hydraulic fluid sight gauge. The sight gauge is located on the front of the hydraulic reservoir.
5. Close the hydraulic reservoir breather filler cap.
6. Put the driver's seat back into position.

HOW TO CLEAN THE HYDRAULIC SYSTEM

1. Put a drop cloth on the floor.
2. Drive the machine on to the drop cloth.
3. Set the parking brake.
4. Tip the seat to the side.
5. Put a container under the reservoir drain to catch the reservoir fluid.
6. Remove the drain plug. The reservoir fluid will drain. Do not use the drained reservoir fluid to refill the hydraulic reservoir. Dispose of the used fluid.
7. Flush the interior of the hydraulic reservoir with clean fluid.
8. Put the reservoir plug, removed in step six, back in the hydraulic tank drain and tighten. A pipe thread sealer is required on the plug.
9. Open the breather filter cap.
10. Fill the reservoir with new FORD type "F" automotive transmission fluid. The capacity of the tank is 10 gallons. Fill to the "FULL" line on hydraulic fluid sight gauge.
11. Close the breather filter cap.
12. Tip the seat back to its original position.



P5091 FIGURE 29

HOW TO REPLACE THE RETURN FILTER ELEMENT

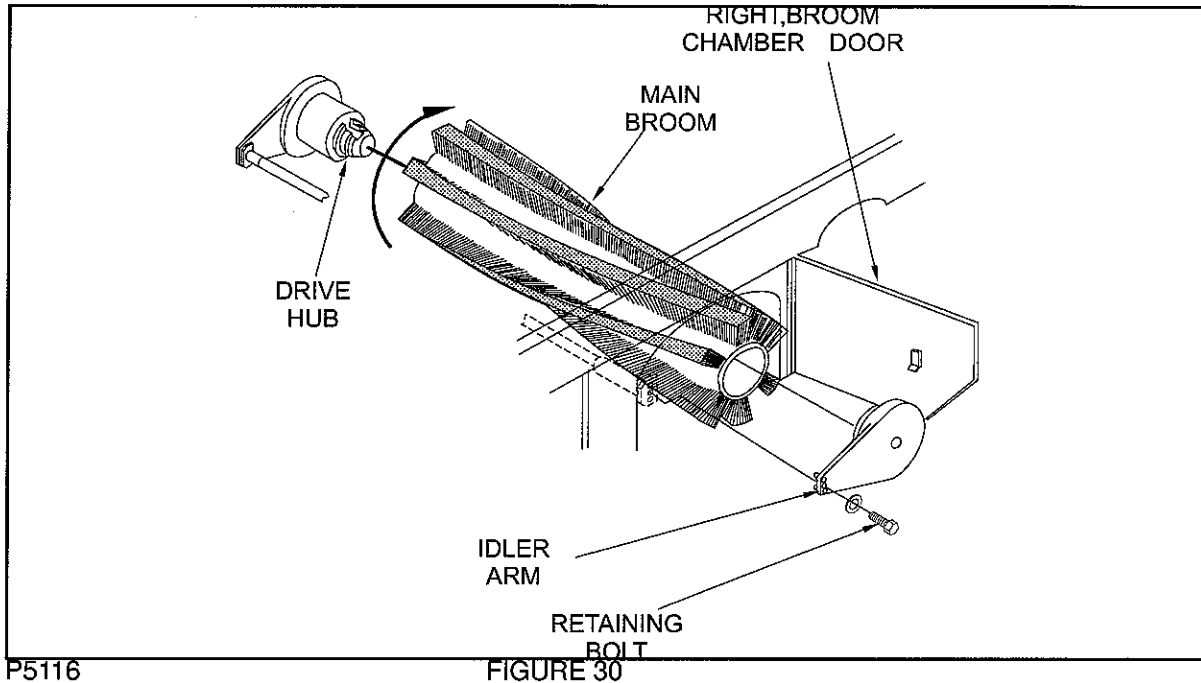
1. Replace the return filter after 250 hours of machine run time.
2. Unscrew the fasteners from the filter assembly cover and retain.
3. Remove the cover and the compression spring and retain.
4. Discard old filter element.
5. Position new filter element inside the filter body.
6. Put the compression spring in position. Wipe the cover magnet free of any metal filings or debris.
7. Place O-ring (Moisten with clean hydraulic fluid) and cover into position.
8. Reattach fasteners to filter cover.
9. Wipe clean any hydraulic reservoir fluid spills. The fluid can damage painted surfaces of the machine.

HYDRAULIC SCHEMATIC - VARIABLE DUMP, P4882a

HYDRAULIC SCHEMATIC - LOW DUMP, P5113

ENGINE

Read and follow all the instructions in the Engine Manual Section. Due to the nature of work being done by the machine extra care must be taken to protect the engine from these elements. Check the oil each day before starting operations. Be sure to check and clean the air cleaner as conditions demand. Do not let the engine become coated with dust and dirt.



P5116

FIGURE 30

TO REMOVE MAIN SWEEPING BROOM

1. Open the left broom chamber door.
2. Put the main broom control in the "SWEEP" position.
3. Remove the retaining bolt.
4. Remove the idler arm assembly.
5. Remove the main broom and discard.
6. Put a new main broom in the broom chamber.
7. Rotate the new broom to the right on the drive hub until it engages the drive hub broom tabs.
8. Put the idler arm assembly in place.
9. Put the retaining bolt in place and tighten.
10. Close the broom chamber door.
11. Start the engine.
12. Put the broom lever in the "SWEEP" position.
13. Let the broom sweep in place for 30 seconds.
14. Put the broom lever in the "UP" position.
15. Back the machine off the test spot.
16. Inspect the polished area where the broom swept, for broom bristle contact with the floor. The area of broom bristle contact with the floor should be 2 to 3 inches (5 to 8 cm.) wide.

GENERAL MACHINE MAINTENANCE

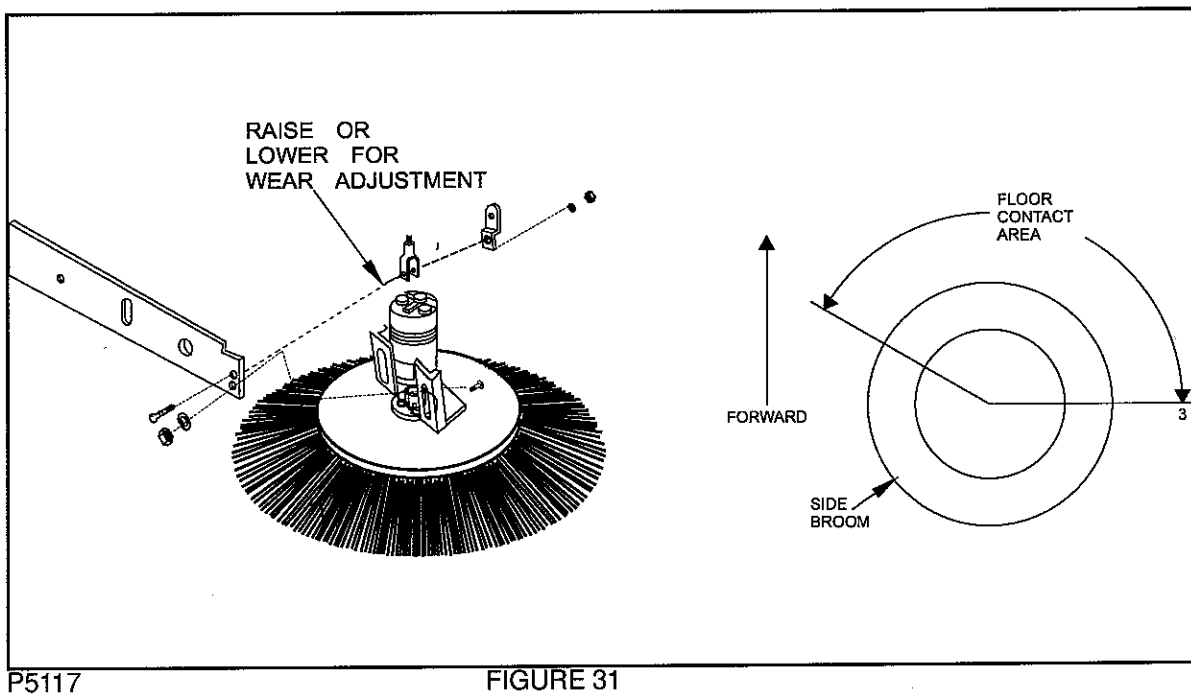
MAIN BROOM LEVEL ADJUSTMENT

The main broom level is factory set and should not need adjustment, if the level gets out of adjustment and the broom bristle contact pattern is not an even 2" to 3" (5 to 8 cm.) wide, the broom arm lift frame (page 89, part number 7-03-04098) will have to be adjusted. The frame is supported by two flange bearings (part number 2-00-03997). These bearings are located inside the broom doors. The carriage bolts (part number 2-00-00196) on the two end flanges will have to be loosened. The frame can then be leveled and the bolts tightened.

HOW TO ADJUST MAIN BROOM WEAR PATTERN

When the bristles of the broom begin to wear out the following adjustments may be made to keep a 2 inch (5 cm.) broom pattern.

1. Loosen the nut located in the engine compartment (See page 90, key number 8).
2. Set the broom lever to the "Sweep" position and adjust the lock nut (key number 8) to obtain a 2 inch (5 cm.) broom pattern. The lock nut will move the linkage rod (key number 3) that adjusts the sweeping pattern of the broom for wear.



P5117

FIGURE 31

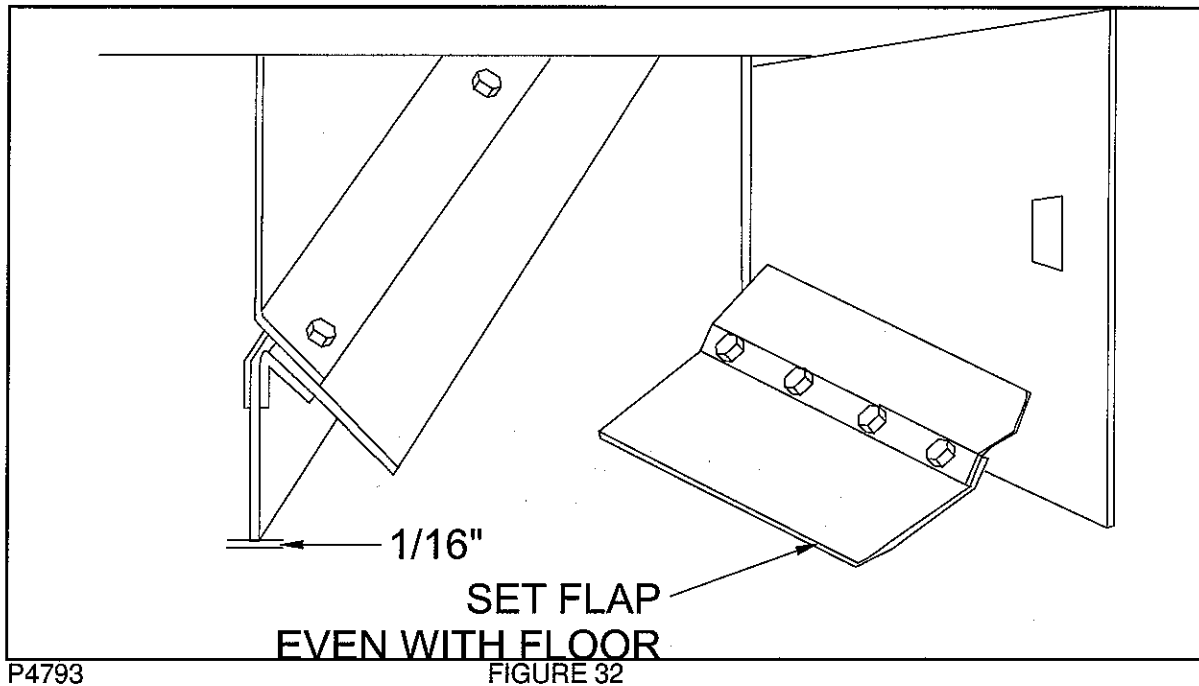
SIDE BROOM LEVEL ADJUSTMENT

As the side broom wears, simply loosen the two wear adjusting bolt and slide the broom-motor assembly into a position so that the broom contacts the floor at a 3 degree angle when lowered as shown in Figure 31.

SIDE BROOM REPLACEMENT

Put the side broom lift control in the "UP" position. Remove the retaining screw in the bottom middle of the side broom (Key #13 on page 92. Remove the side broom. Transfer the side broom flange spacer and screws to the replacement side broom (Keys #13, 14, 15, and 16. Put the replacement side broom on the shaft. Put the retaining screw (Key # 13) in position and tighten.

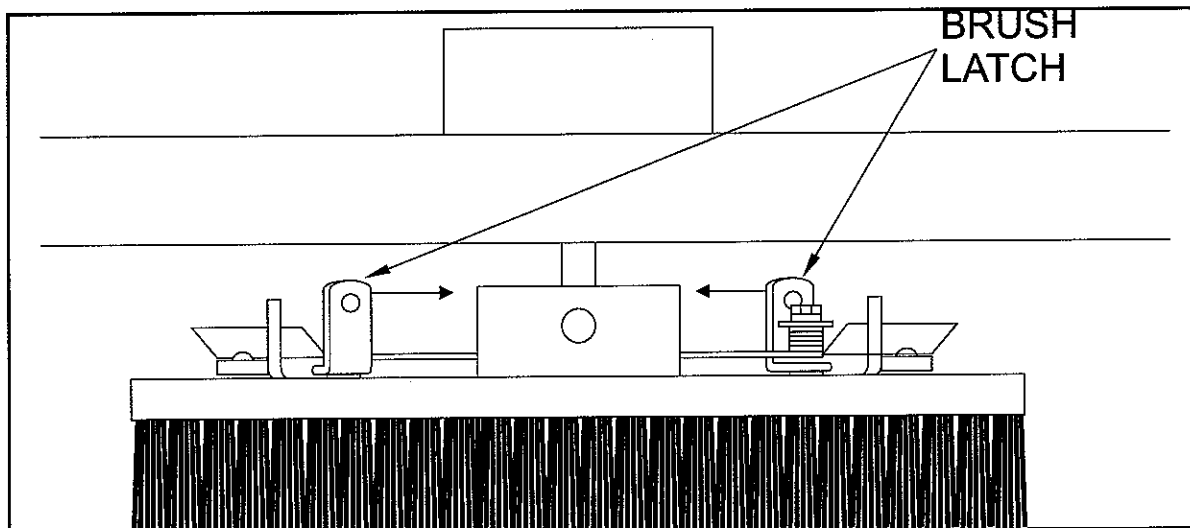
FLAPS



The urethane and rubber flaps are susceptible to damage and should be inspected regularly and maintained in good condition. The side flaps are adjustable and should be maintained at approximately $1/16''$ (16 mm.) above the floor. The front and rear flaps have no provision for adjustment.

All flaps should be replaced when worn or damaged to such an extent that they cannot perform their function.

GENERAL MACHINE MAINTENANCE



P4762

FIGURE 33

SCRUB BRUSH REPLACEMENT

1. Raise the scrub brush deck by pressing the "Scrub Brush" Switch on the instrument panel.
2. Press the brush latches inward to release the scrub brushes.
3. Remove old scrub brush.
4. Snap new brush into place.

SPLASH SKIRTS

The splash skirts for the brush drive frame may be adjusted as required by loosening the attachment screws. Correct adjustment is just in contact with the floor.

COVERS AND LATCHES

The covers have been designed to allow access, either by hinge or removal to all areas of the machine. No maintenance is required. For lubrication of latches see Lubrication Section.

SOLUTION WARNING LIGHT

The solution warning light will illuminate when the solution tank is empty. This part of the level control system requires no maintenance. If the system fails to operate, consult the Electrical Troubleshooting Guide.

RECOVERY WARNING LIGHT

The recovery warning will illuminate approximately 5 minutes before loss of vacuum to the recovery tank. This part of the level control system requires no maintenance, except for daily cleaning of the tank level switch. If the system fails to operate, consult the Electrical Troubleshooting Guide.

SOLUTION CONTROL(Non-Recycling or Standard)

The solution control lever controls the amount of solution applied to the scrubbing brushes. Except for a few drops of oil applied to the lever pivot every 100 hours, the system should require no major maintenance.

The solution control should shut off completely with the lever in the (rear) "off" position. If complete shut off does not occur, the control cable should be adjusted.

SOLUTION CONTROL (RECYCLING or Camel System)

In the recycling mode, the solution control lever is also used to activate the detergent pump. If the detergent pump fails to operate (engine running) when the solution control lever is moved into the low to high range, first check the circuit by manually activating the switch. If the detergent pump does not operate at this time, a further electrical or mechanical check is indicated. (See Electrical Troubleshooting Guide or Detergent Pump Troubleshooting).

RECYCLING PUMP & MOTOR Camel System

The recycling pump and motor are located directly behind the broom chamber the solution and recovery tanks. The pump is a progressive cavity pump which is coupled to a totally enclosed non-ventilated motor. This pump and motor combination require no regular maintenance, except for daily cleaning of the pump intake screens.

NOTE

Adjustment of the packing gland may be necessary upon startup due to leakage around the shaft. Adjustments may be made by using the following procedure:

- Tighten gland bolts against packing gland evenly to insure that the packing gland does not cock.
- * Tighten packing until only a slight leakage is noticed. (A slight leakage is required to help lubricate the shaft).

NOTE

Do not run pump dry. The unit depends on the liquid pumped for lubrication.

RECYCLING PUMP & MOTOR - STORAGE

NOTE

Always drain pump for extended storage, especially when freezing temperatures may be encountered.

SEPARATOR Camel System

The centrifugal separator, located in the containment chamber at the forward end of the recovery tank removes solids from liquids by its unique centrifugal action. The separator continuously removes solids from liquids without shutdowns for maintenance because of its self cleaning action in which debris are constantly removed from the separator by purging them into the containment chamber.

Should the purge orifice, located in the bottom of the separator become blocked due to excessive accumulation of sludge in the recovery tank, the purge orifice may be removed and the recycling system activated to clear the separator.

NOTE

Never let accumulated sludge harden and dry in the separator. Once hardened this sludge will be impossible to remove.

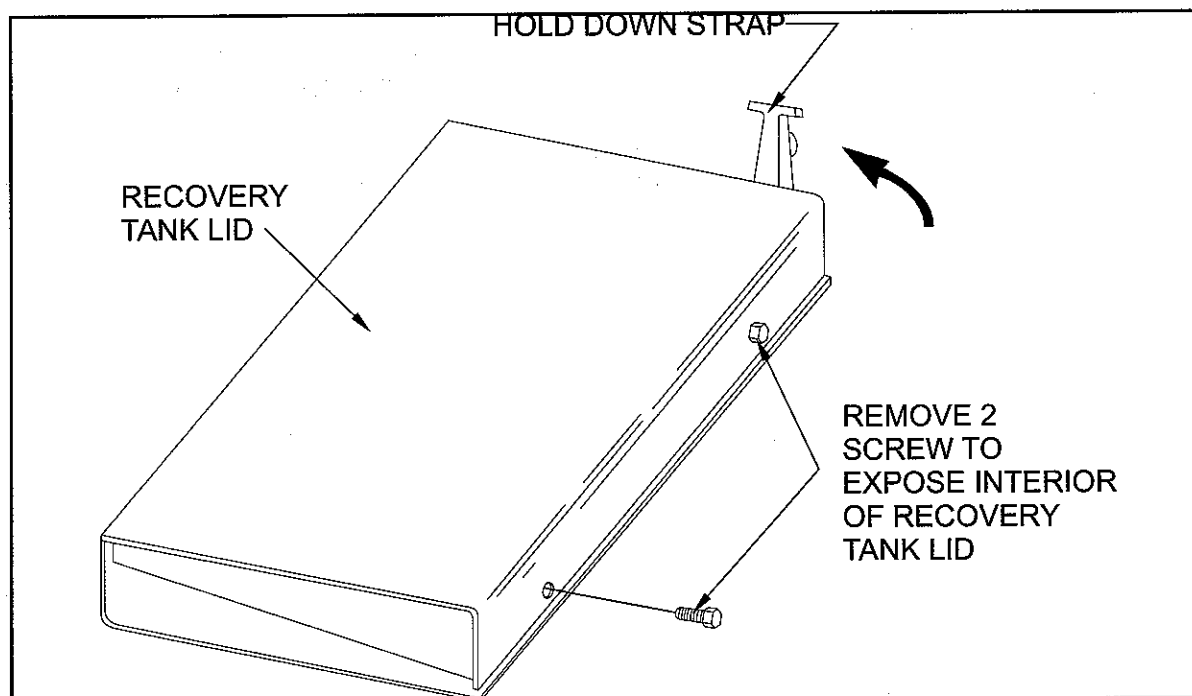
SQUEEGEE

The squeegee will require service when the inner edge of the blade becomes rounded with wear, impairing the wiping action. At this time, the outer blade should be removed and remounted with one of the other unworn edges in contact with the floor. Squeegee operating height is determined and maintained by adjusting the caster wheel stems up or down in the squeegee lift frame and locking with the jam nut.

RECOVERY TANK LID AND TANK ACCESS

Remove the two hex head screws to gain access to the inside of the recovery tank lid. The hydraulic oil cooler is located inside the lid. See figure 34. To gain access to the Recovery Tank, open the engine cover and loosen the hold down strap located on the side of the recovery tank.

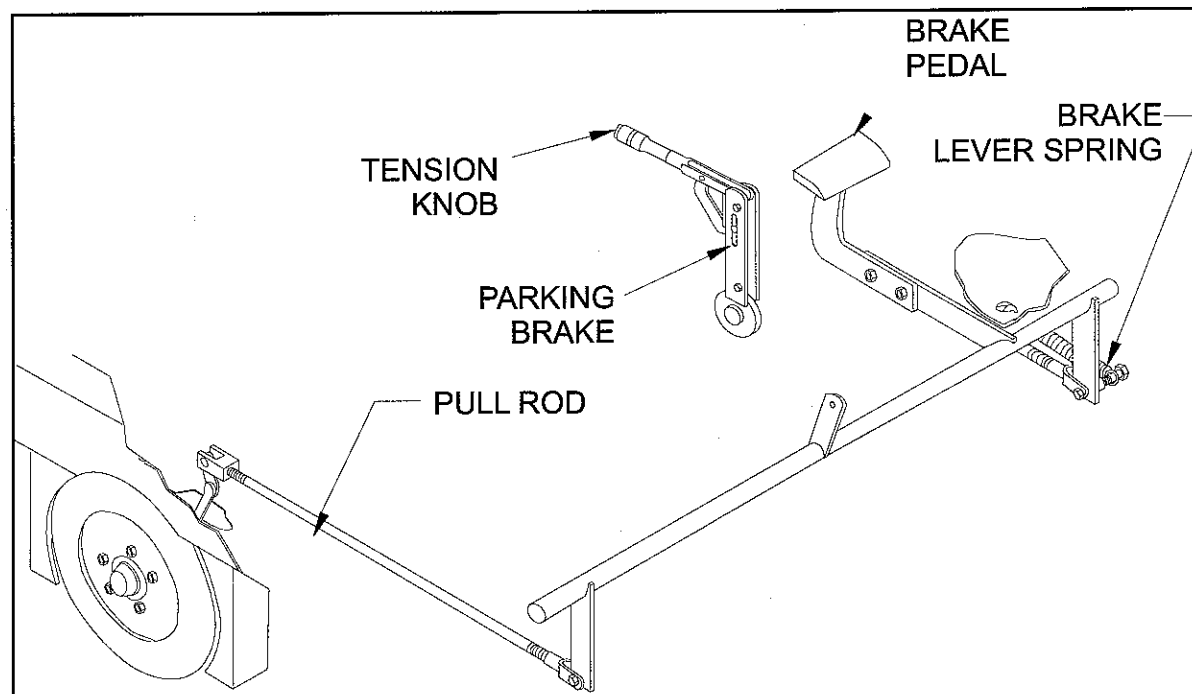
GENERAL MACHINE MAINTENANCE



P4898

FIGURE 34

BRAKE ADJUSTMENT



P4886

FIGURE 35

1. Connect pull rod, preset to 44.5 inch (113 cm.) clevis centerlines, to brake lever then adjust to fit with brake pedal full up and the spring attached.
2. Adjust tension knob on parking brake lever to hold machine on an 8 degree incline.

AIR INTAKE SYSTEM

NOTE

Monitor the air filter indicator daily

The importance of maintaining an air filter cannot be overemphasized. Dirt ingested through improperly installed, improperly serviced, or inadequate air filter elements wears out more engines than long hours of operation. Even a small amount of dirt will wear out a set of piston rings in just a few hours. Operating with a clogged air filter element also causes the fuel mixture to be richer, which can lead to formation of harmful sludge deposits in the engine. Always cover the air intake when the air filter is removed for servicing. Do not neglect servicing the air filter. Use only approved replacement parts. Keep all other air intake components such as hoses and clamps secure and in good condition to prevent entrance of unfiltered air.

Over maintenance can cause more damage than good. Removing the air filter element more often than is needed allows contaminants to enter the engine unnecessarily.

AIR FILTER

The engine air filter housing includes a dust cap and a dry cartridge type air filter element. The dust cap must be emptied of dirt daily. The air filter element must be replaced every 75 to 100 hours. The filter element must be replaced if it is damaged or has been cleaned three times.

Replace the engine air filter only when the Yellow Filter Service Indicator reaches the red band at the top of the indicator. The yellow indicator will stay at the red band when the engine is off. Reset the indicator by depressing the black button at the bottom of the indicator.

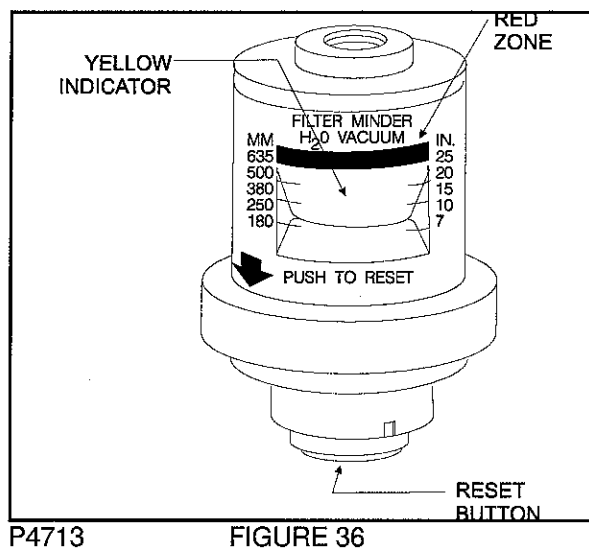


FIGURE 36

TO REPLACE AIR FILTER ELEMENT

1. Stop the engine and engage the machine parking brake.

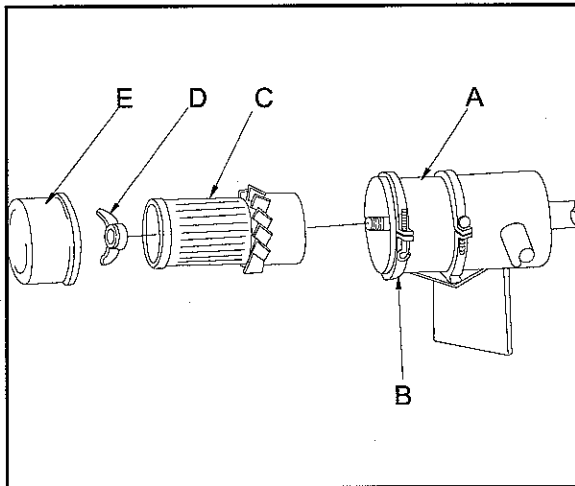


WARNING

Always park on a level surface, stop the engine, and engage parking brake before working on the machine to keep it from creeping or rolling.

2. Unscrew the clamp ring on the filter.
3. Remove the dust cap.
4. Empty the dust cap.
5. Remove the filter wing nut.
6. Gently pull the filter element out of the filter housing.

GENERAL MACHINE MAINTENANCE

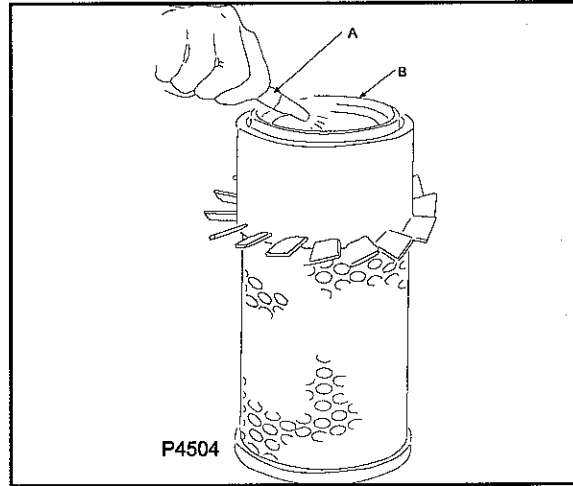


P4599a

FIGURE 37

REMOVING AIR FILTER ELEMENT

- A. Filter Housing
- B. Clamp Ring
- C. Filter Element
- D. Wing Nut
- E. Dust Cap



P4504

FIGURE 38

CLEANING AIR FILTER ELEMENT

- A. Air Hose
- B. Filter Element

7. Clean the interior of the air cleaner housing with a damp cloth. Clean the element housing sealing surfaces.
8. Using an air hose, direct dry, clean air maximum 30 PSI up and down pleats on the inside of the filter. Do not rap, tap, or pound dust out of the element.



WARNING

Wear approved eye protection when using air or water hoses to prevent eye injury.

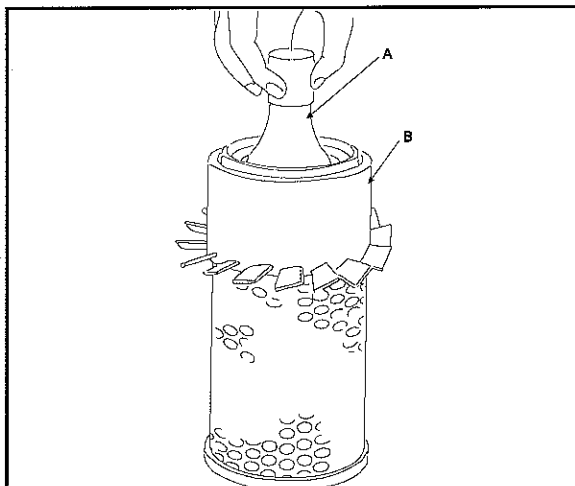
9. After cleaning the air filter element, inspect it for damage by placing a bright light inside. The slightest rupture requires replacement of the filter. Clean and inspect the ends of the element. They should be unbroken and flexible. Remember, the element must be re-placed after it has been cleaned three times.

INSPECTING AIR FILTER ELEMENT

- A. Bright Light
- B. Filter Element

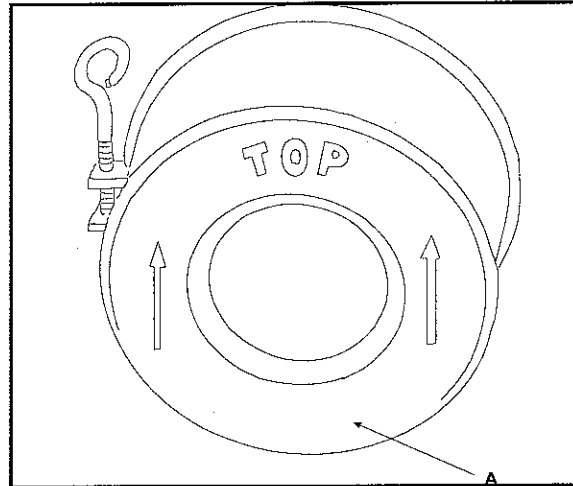
DUST CAP

- A. Dust Cap



P4503

FIGURE 39

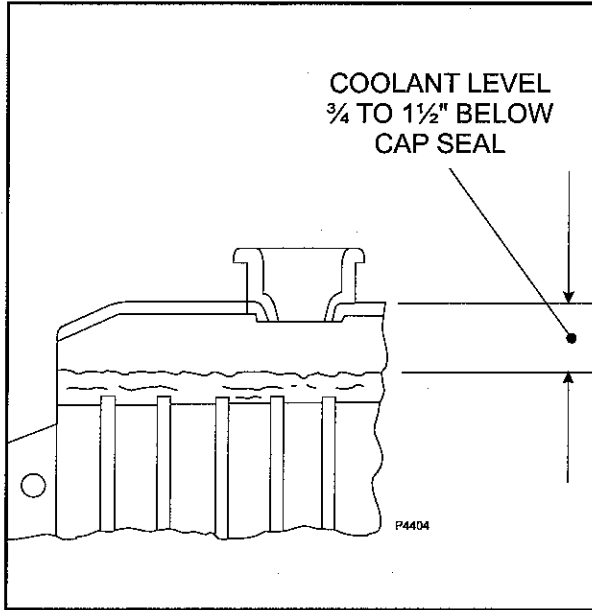


P4505

FIGURE 40

10. Install the new or cleaned filter element so that fins on the element are at the intake end of the air cleaner. Use care so the fins are not damaged. Tighten the wing nut attaching the element.
11. Install the dust cap with the arrows pointing up. Tighten the clamp ring to hold it in place. Check all intake hose connections for leaks or abrasion.
12. Reset filter monitor after any filter service.

COOLING SYSTEM



P4404

FIGURE 41

COOLANT LEVEL

Check the coolant level in the radiator daily, only when the engine is cool.

Maintain the coolant level at approximately 3/4 inches (1.9 cm.) below the filler neck seat on the radiator when the coolant is cold.

Whenever coolant level checks are made, check condition of radiator cap rubber seal. Make sure it is clean and free of any dirt particles. Rinse off with clean water if necessary. When replacing cap on radiator, also make sure radiator filler neck is clean.



WARNING

Never remove the radiator cap under any conditions while the engine is operating. Failure to follow these instructions could result in damage to the cooling system or engine and/or personal injury. To avoid having scalding hot coolant or steam blow out of the radiator, use extreme care when removing the cap from a hot radiator, if possible, wait until the engine has cooled, then wrap a thick cloth around the radiator cap and turn it slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap (still with a cloth), turn and remove it. Do not add coolant to an engine that has become overheated until the engine cools. Adding coolant to an extremely hot engine can result in a cracked block or cylinder head.

Use only a permanent type coolant that meets FORD specification ESE-M97B44-A such as FORD Cooling System Fluid. Refer to the coolant chart on the container for additional antifreeze protection information. Do not use alcohol or methanol antifreeze, or mix them with the specified coolant. Plain water may be used in an emergency, but replace it with the specified coolant as quickly as possible to avoid damage to the system. With only water in the system, do not let engine run hot.

RADIATOR

Inspect the exterior of the radiator for obstructions. Remove all bugs, dirt or foreign material with a soft brush or cloth. Use care to avoid damaging the fins. If available, use compressed air or a stream of water in the opposite direction to normal airflow. Open door for access.

Check all hoses and connections for leaks. If any of the hoses are cracked, frayed, or feel spongy, they should be replaced.

GENERAL MACHINE MAINTENANCE

DRIVE BELTS

The drive belt(s) should be properly adjusted at all times. A loose drive belt causes improper alternator, fan and water pump operation, and overheating. Overtightening the belt may result in excessive wear on the alternator and water pump bearings, as well as premature wear on the belt itself. Therefore, it is recommended that proper belt tension be maintained.

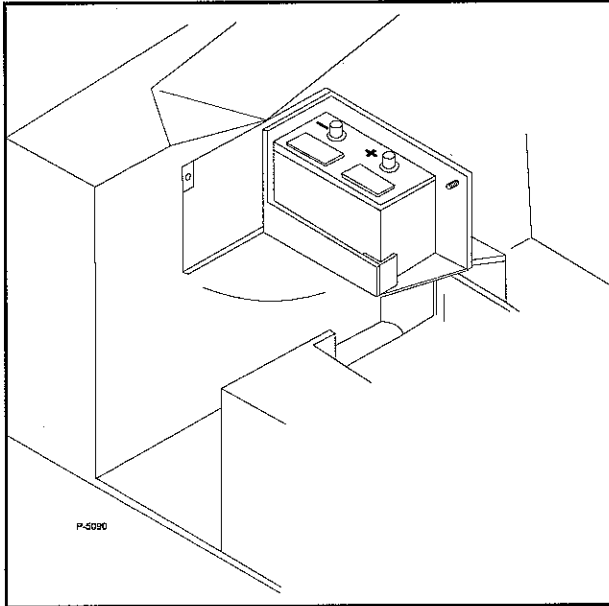


FIGURE 42

BATTERY

1. Access to the battery is through the door located beside the driver's seat.
2. Open the seat cover and unscrew the access bolt to the battery door.
3. Swing the battery door out.
4. Keep the top of the battery clean and dry. Keep the terminals and connectors clean. To clean the tops of the batteries, use a damp cloth with a weak solution of ammonia or bicarbonate of soda solution. To clean the terminals and connectors, use a terminal and connector cleaning tool.
5. Swing the battery door closed and fasten the access bolt.
6. Put the seat into position.



WARNING

NEVER allow the soda solution to enter the cells. This will permanently discharge the battery.

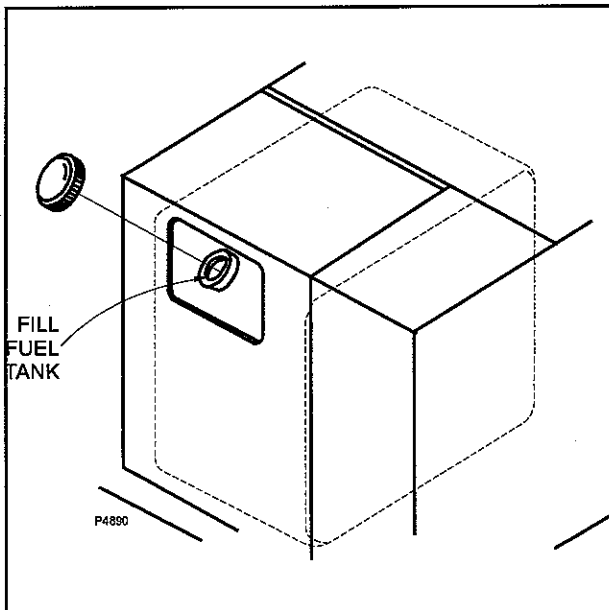


FIGURE 43

GAS TANK

The gas tank is located under the drivers seat. It may be filled from the rear of the machine.

LP GAS SYSTEM

The propane powered Model 7700 is identical to the "standard" gasoline powered 7700, except that its fuel system has been modified to operate on LP vapor fuel.

The LP fuel system consists of several components not found on the gasoline system. The LP fuel system also contains the associated mounting hardware and plumbing for the LP components. The major LP components are as follows: These components are factory set, attempts at adjusting these components should only be made by authorized service personnel.

1. An LP carburetor
2. A combination water heated vaporizer and regulator
3. A combination LP fuel line filter and lock off valve
4. LP fuel tank and fittings

LP GAS VAPORIZER-REGULATOR QUICK CHECK

Turn on the ignition switch and open the radiator cap. Check the coolant for bubbles. If bubbles are present, the vaporizer may have a leaking gasket or may have developed a pinhole leak, allowing the LP fuel to enter the cooling system.

LP GAS FUEL TANK

The LP tank is located under the drivers seat. Use only the proper size and type of LP tank. The 7700 LP powered sweeper uses 33.5 lb. liquid withdraw tank. The DOT designation of the tank is DOT 4BW-240.

NEUTRAL ADJUSTMENT

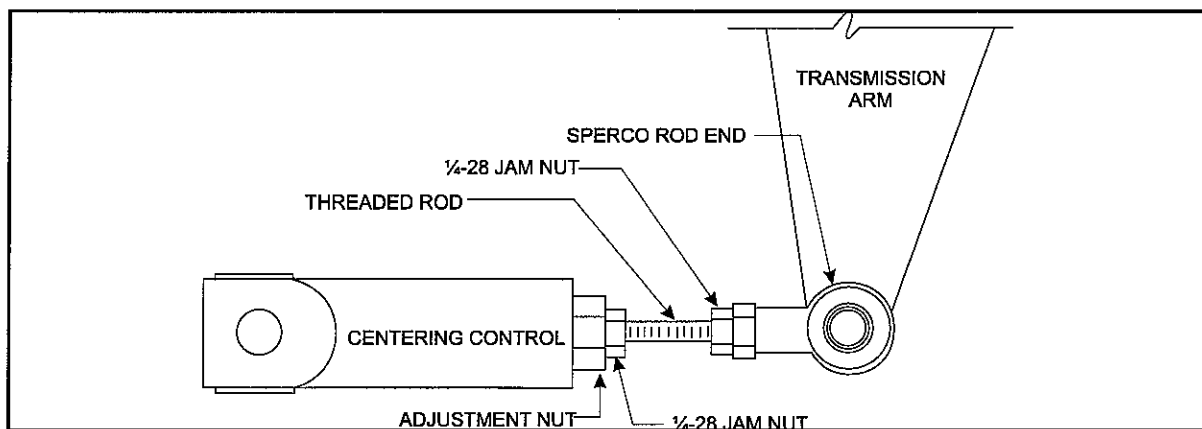
NOTE

Orientation of the transmission arm assembly depends upon which engine is installed in the 7700 Sweeper Scrubber. See pages 120 through 125 for proper identification.

NOTE

Adjustment directions given are as seen from the operator's position in the operator's seat.

1. Check engine no load RPM ; 7700, 2150 RPM. Check hydraulic reservoir oil level.
2. Raise rear of machine onto jack stands so rear wheel is off the ground.
3. Loosen the jam nut away from the adjustment nut.
4. If the rear drive wheel is turning forward, turn the adjustment nut clockwise (this will shorten the threaded shaft). If the rear drive wheel is turning in reverse, turn the adjustment nut counterclockwise (this will lengthen the threaded shaft).
5. Tighten the jam nut against the adjustment nut.
6. Test for operation of neutral with engine at full throttle. If the rear drive wheel turns, repeat adjustments Steps 3, 4 and 5.



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FIGURE 44

PARTS LIST LEGEND

ABBREVIATIONS - SCREWS

ADJ	= Adjusting Screw
ADJ.SP	= Adjusting Plunger Screw
BHM	= Binding Head Machine Screw
BHS	= Button Head Socket Screw
CAPT.SL	= Captivated Slotted Screw
CAPT.WG	= Captivated Wing Screw
FHM	= Flat Head Machine Screw
FIL.HM	= Filister Head Machine Screw
HHC	= Hexagon Head Cap Screw
HHM	= Hexagon Head Machine Screw
HIHD	= 1/2 High Head Screw
HS HC	= Hexagonal Socket Head Cap Screw
HSFHC	= Hexagonal Socket Flat Head Cap Screw
KNH	= Knurled Head Screw
MHHC	= Metric Hexagon Head Cap Screw
PHM	= Pan Head Machine Screw
RHD	= Round Head Drive Screw
RHM	= Round Head Machine Screw
RHW	= Round Head Wood Screw
SHC	= Shiny Crown Cap Screw
SHTB	= Shoulder Thumb Screw
SQ	= Square Head Screw
TB	= Thumb Screw
THM	= Truss Head Machine Screw
WELD	= Weld Stud
WG	= Wing Screw

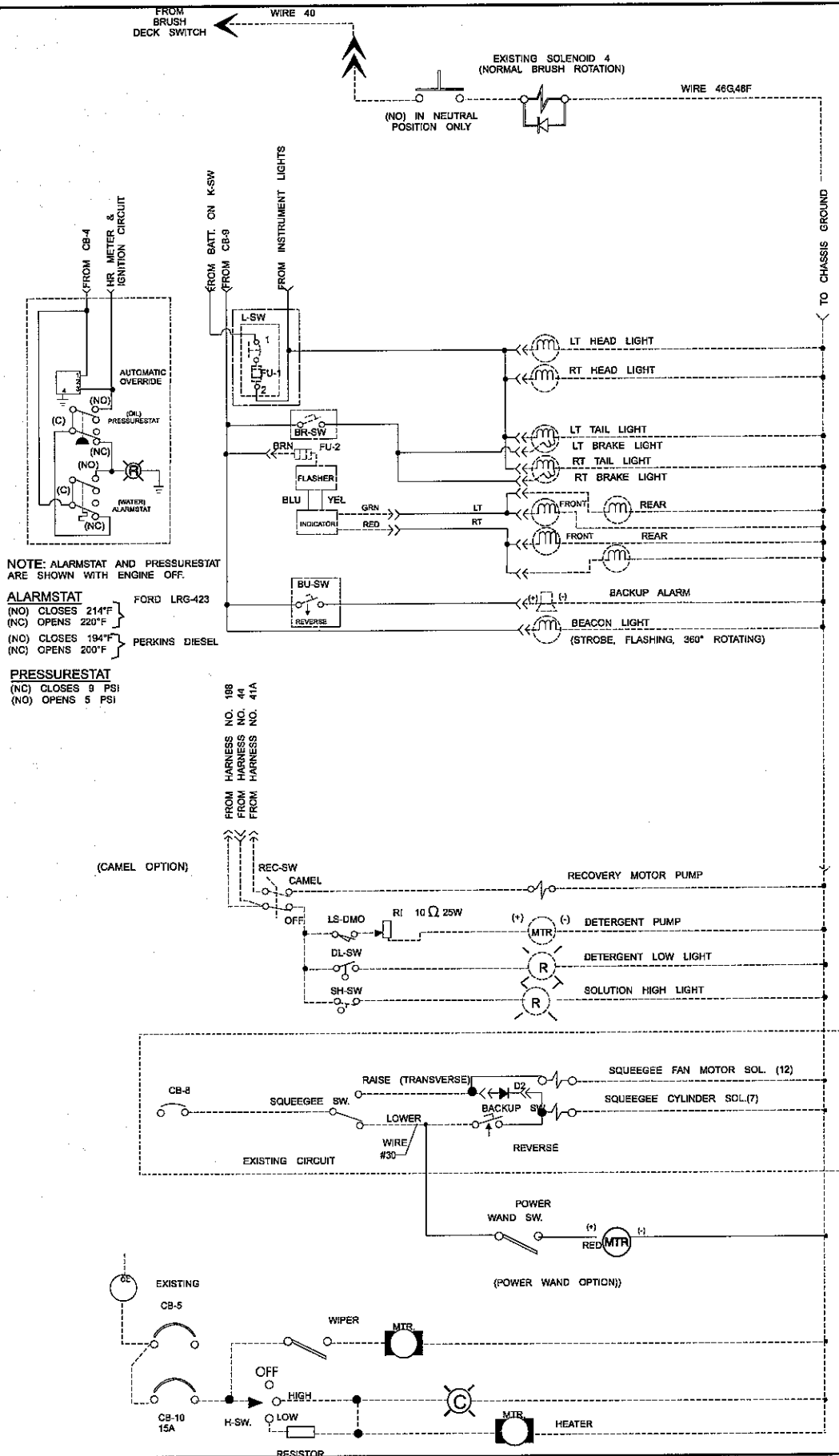
ABBREVIATIONS - SETSCREWS

HS	= Hexagonal Socket Setscrew
S	= Slotted Setscrew
SH	= Square Head Setscrew
-KCP	= Knurled Cup Point Setscrew
-CP	= Cup Point Setscrew
-OP	= Oval Point Setscrew
-FDP	= Full Dog Point Setscrew
-HDP	= Half Dog Point Setscrew
-FP	= Flat Point Setscrew
-COP	= Cone Point Setscrew

TROUBLESHOOTING TABLE

<u>PROBLEM</u>	<u>PROBABLE CAUSE</u>	<u>REMEDY</u>
Sweeping does not function	1. Dump door closed 2. Hopper is raised 3. Hopper switch out of adjustment	1. Open dump door 2. Lower hopper 3. Adjust hopper switch
Poor water pick up at squeegee	1. Side or rear squeegee are worn or damaged 2. Clogging in water pick up 3. Air leaks in suction hose and connection 4. Air leaks at recovery tank cover and/or manifold gasket 5. Poor vacuum 6. Drain hose or drain plug leakage or not closed properly.	1. Examine squeegee rubber blade for cuts or worn spots. 2. Repair or replace hose and connection 3. Repair or replace gaskets 4. Check vacuum motor 5. Check seal on recovery tank 6. Close, repair or replace drain plug in recovery tank.
Water spill from squeegee	1. Side squeegee blades, poor contact with floor 2. Squeegee blades worn or damages 3. Too much solution being applied before making urns 4. Brushes rotating opposite direction	1. Readjust blades for proper contact 2. Replace or adjust 3. Shut off solution flow 5' to 10' 4. Check position of switches.
Lack or suction at rear	1. Clogged suction hose or pick up tool 2. Loose connections between suction hose and squeegee or between hoses or manifold inlet 3. Vacuum motor not operating 4. Vacuum float cage clogged 5. Vacuum float shut off	1. Disconnect suction hose from squeegee; flush squeegee & hoses. 2. Check all hose connections for looseness or damage. 3. Check hydraulic motor in recovery 4. Clean perforated metal thoroughly 5. Excessive solution in recovery drain tank. Excessive foam build up, change cleaning chemical mixture. Use A-L approved material
Poor scrubbing	1. Worn scrubbing brushes 2. Incorrect method of operation 3. Wrong cleaning agent or mixture 4. Poor solution distribution.	1. Inspect brushes. If they are worn to ½" (1.3 cm) or less, replace all 3 brushes. 2. Check scrubbing procedures, brush pressure, type of brush solution flow & cleaning chemical used. For extreme conditions double scrubbing may be necessary. 3. Use A-L recommended material. 4. Clean out distribution tube & metering holes to brushes, Check feed hose & clean if necessary. Check valve & cable control system.
Engine runs, but machine will not move on level ground	1. Foot pedal and/or linkage jammed or not adjusted 2. Front wheels jammed or brakes locked 3. Hydraulic pump trouble 4. Rear wheel hydraulic motor, broken shaft key, broken shaft, etc.	1. Check pedal linkage 2. Check wheels & brakes 3. Check & repair. See Cessna information 4. Check & repair. See Char-Lynn information
Machine moves slowly	1. Low hydraulic oil level 2. Brakes dragging 3. Hydraulic oil temperature too high 4. Worn hydraulic pump or motor drive	1. Add oil to reservoir. 2. Check brakes 3. Check oil level. Add SAE 5 ATF if required 4. See Cessna or Char-Lynn information
Hydraulic pump making excessive noise	1. Clogged inlet strainer or suction line. 2. Air bubbles in hydraulic fluid 3. Hydraulic pump os worn or damaged	1. Clean inlet strainer line. Drain & flush reservoir if oil is dirty. Refill with clean SAE 5 ATF. 2. Check for low hydraulic fluid level, leaking fitting or hoses. 3. See Cessna pump information

SCHEMATIC DIAGRAM OPTIONS



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ORDERING PARTS

Parts may be ordered from American-Lincoln authorized distributors. Inspect the Alto U.S. serial plate to avoid delays in filling you orders:

MODEL NO. 	SERIAL NO.
Manufactured By  American Lincoln Technology® Bowling Green, Ohio	

1. Use the model number, catalog number, and serial number when ordering.
2. Give the part number, description, and quantity of parts needed.
3. Give shipping instructions for either freight, UPS, or parcel post.

Parts and supplies listed in this manual can be ordered from the following address:

Alto U.S., Inc. American Lincoln Technologies	Alto U.S., Inc. Distributor
1100 Haskins Road Bowling Green, Ohio 43402 (800) 331-7692	

MACHINE CATALOG NUMBER

505-202	7700 Gas Variable Dump - FORD
505-205	7700 Diesel Variable Dump
505-207	7700 Gas Low Dump - FORD
505-210	7700 Diesel Low Dump
505-212	7700 Gas Camel Variable Dump - FORD
505-215	7700 Diesel Camel Variable Dump
505-217	7700 Gas Camel Low Dump - FORD
505-220	7700 Diesel Camel Low Dump
505-221	7700 Manual Dump - FORD
505-222	7700 Manual Dump - Diesel
505-223	7700 Manual Dump Camel - FORD
505-224	7700 Manual Dump Camel - Diesel

NOTES

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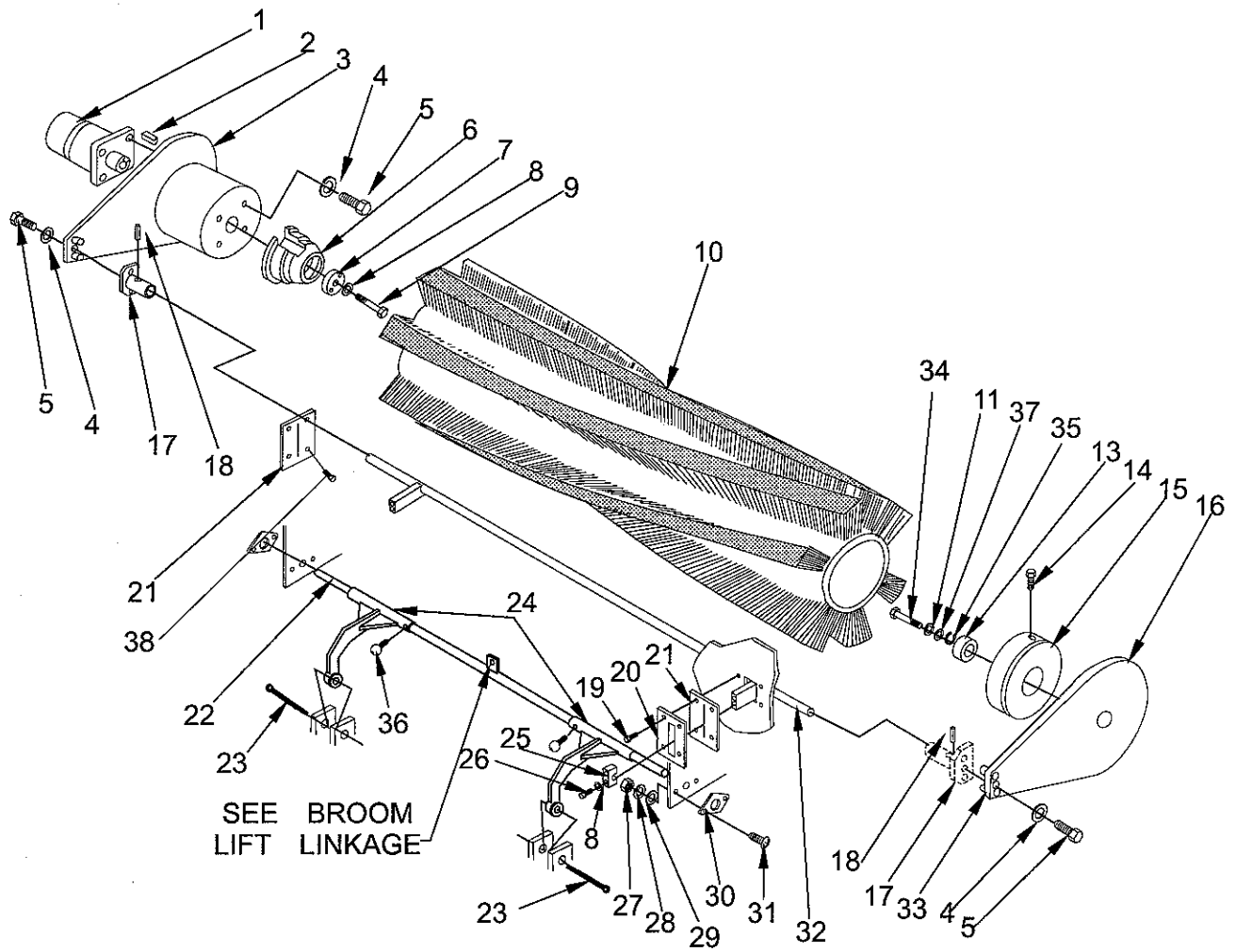
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MAIN BROOM - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	0882-040	Hydraulic Motor, Broom Drive	1
2	2-00-03838	Key, .250 x 1.000 (#15) W	1
3	8-16-00041	Drive Broom Arm	1
4	2-00-02310	Lock Washer, Helical Spring 3/8 Med	6
5	2-00-00232	Screw, 3/8 - 14 x .750 HHC	6
6	8-33-09046-1	Broom Driver Hub	1
7	8-58-05160	Hub Locking Plate	1
8	2-00-00518	Lock Washer, Helical Spring 1/4 Med	7
9	2-00-03039	Screw, 1/4 - 20 x .625 HSHC	3
10		See Broom Options	
11	2-00-00522	Lock Washer, Helical Spring 3/4 Light	1
12			
13	2-00-04889	Bearing	1
14	2-00-04886	Screw, 3/8 - 16 x .500 HSHC	2
15	8-33-09090	Idler	1
16	8-16-00039	Idler Arm	1
17	7-15-01035	Pivot Collar Weldment	2
18	2-00-04943	Spring Pin, 3/8 x 1 1/2	2
19	2-00-00221	Screw, 1/4 - 20 x .750 HHC	8
20	7-16-07274	Cover Plate Gasket	2
21	7-29-00148	Broom Arm Gasket	2
22	7-70-05137	Shaft	1
23	7-55-08119	Lift Pin	2
24	7-03-04098	Scrub Deck Lift Arm	2
25	7-13-07103	End Clamp	2
26	2-00-02587	Screw, 1/4 - 20 x 1.250 HHC	4
27	2-00-00586	Nut, Hex Jam 5/16 - 18 .500 x .187	4
28	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
29	2-00-05103	Flat Washer SS, .750 x .343 x .050	4
30	2-00-03997	Flange Bearing, 3.750 x 1.000	2
31	2-00-00196	Carriage Bolt, 5/16 - 18 x 1.000	4
32	7-70-05138	Broom Chamber Shaft Weldment	1
33	8-55-08098	Dowel Pin	4
34	2-00-04887	Screw, 3/4 - 10 x 1.250 HHC	1
35	2-00-04890	Retaining Ring, 3.341 Int.	1
36	2-00-02558	Lubrication Fitting, 45° 1/8 NPT	2

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MAIN BROOM - EXPLODED VIEW



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MAIN BROOM LIFT LINKAGE - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-39-00003	Knob	2
2	7-41-05082	Main Broom Lever	1
3	7-66-00142	Adjusting Rod	1
4	2-00-02706	Screw, 1/4-20 x 1.000 HHM	1
5	7-09-01057	Spacer	2
6	2-00-01255	Screw, 5/16 - 18 x .875 HHC	2
7	7-17-00012	Crank	1
8	2-00-02369	Nut, Hex Jam 3/8 - 16 x .562 x .218	2
9	7-08-00493	Broom Lever Bracket	1
10	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
11	2-00-00208	Screw, 5/16 - 18 x .750 HHC	1
12	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	3
13	7-89-06700	Hopper Valve Bracket	1
14	2-00-02589	Screw, 1/4 - 20 x 2.0 HHC	2
15	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
16	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	2
17	7-42-05086	Broom Lift Link	1
18	8-15-01016	Setscrew Collar, 1.000 x .5000 x .437	1
19	7-15-01022	Setscrew Collar, .750 x .378 x .375	1
20	2-00-04936	Nut, Hex Fiber Insert 1/2 - 13	1
21	2-00-00566	Lubrication Fitting, Straight 1/8 NPT	1
22	7-21-04030	Edging	1
23	2-00-05059	Screw, 1/2-13 x 3.750 HHC	2

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HOPPER CONTROL VALVE

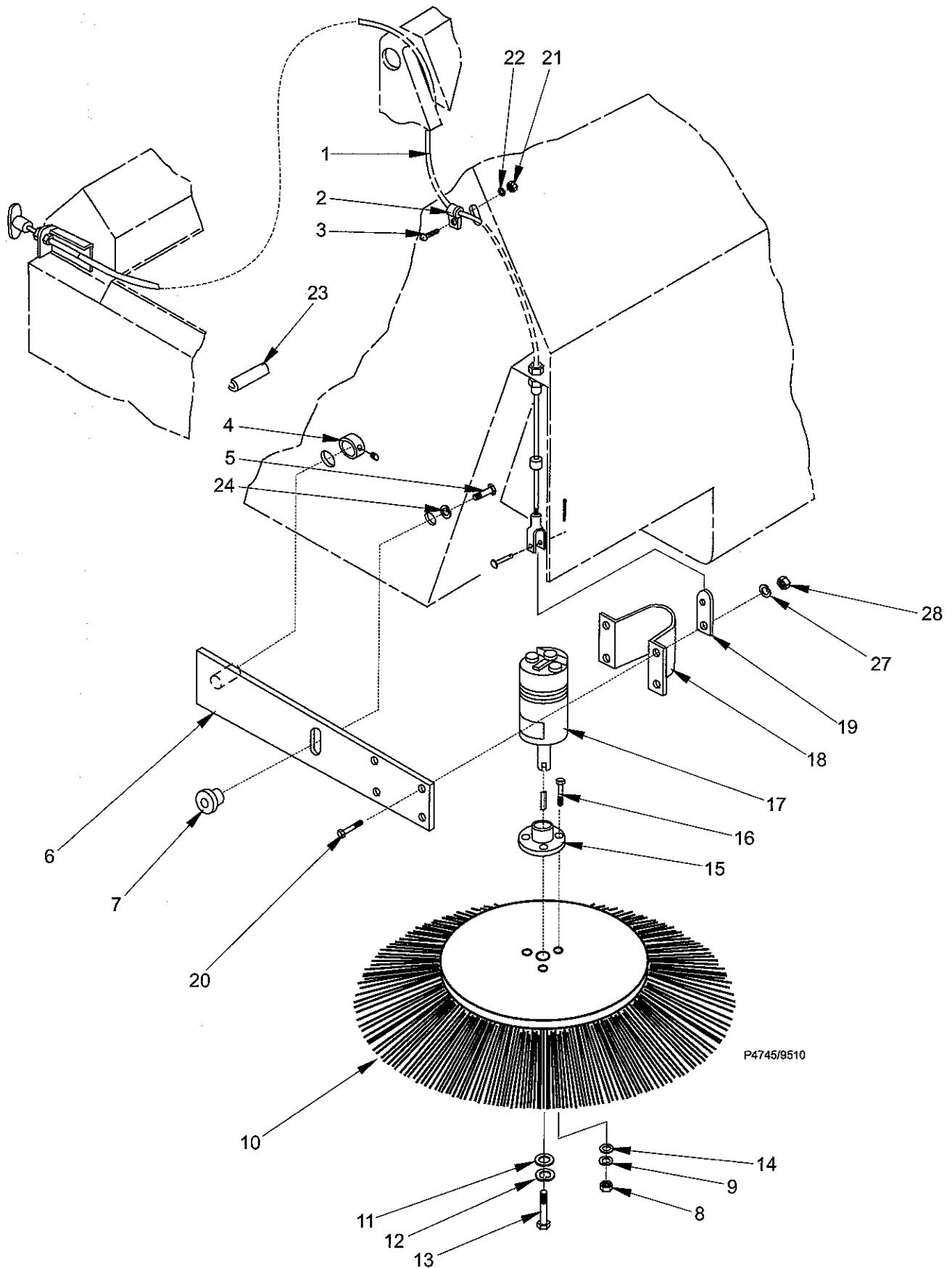
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SIDE BROOM (VARIABLE & LOW DUMPS) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-10-00020	Cable	1
2	2-95-04894	Clamp	1
3	2-00-00049	Screw, #10 - 24 x .500 RHM	3
4	8-15-01003	Setscrew Collar, 1.250 x .750 x .562	1
5	2-00-00232	Screw, 3/8 - 16 x .750 HHC	1
6	7-03-04128	Side Broom Arm Weldment	1
7	7-09-01134	Bushing	1
8	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	3
9	2-00-00530	Lock Washer, Helical Spring 5/16 Med	3
10	8-08-03107	Side Broom	1
11	2-00-00447	Flat Washer, .562 x .265 x .187	1
12	2-00-00518	Lock Washer, Helical Spring 1/4 Med	1
13	2-00-03537	Screw, 1/4 - 28 x 2.000 HHC	1
14	2-00-00409	Flat Washer, .687 x .343 x .062	3
15	7-25-06024	Flange	1
16	2-00-00218	Screw, 5/16 - 18 x 2.000 HHC	3
17	0885-061	Hydraulic Broom Drive Motor	1
NS	0880-293	Seal Kit for 0880-293	1
NS	0780-144	Seal Kit for 0880-293	1
18	7-13-07105	Clamp	1
19	7-79-00060	Strap	1
20	2-00-02708	Screw, 5/16 - 18 x 1.00 HHC	4
21	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	3
22	2-00-00512	Lock Washer, #10 Int.	3
23	8-21-04030	Edging	1
24	2-00-02310	Lock Washer, Helical Spring 3/8 Med	1
25	2-00-04210	Clamp	2
26	2-00-00566	Grease Fitting, 1/8 NPT Straight	1
27	2-00-00409	Washer, Flat 5/16	4
28	2-00-00644	Nut, 5/16-18 Hex Fibre Lock	4

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SIDE BROOM (VARIABLE & LOW DUMPS) - EXPLODED VIEW

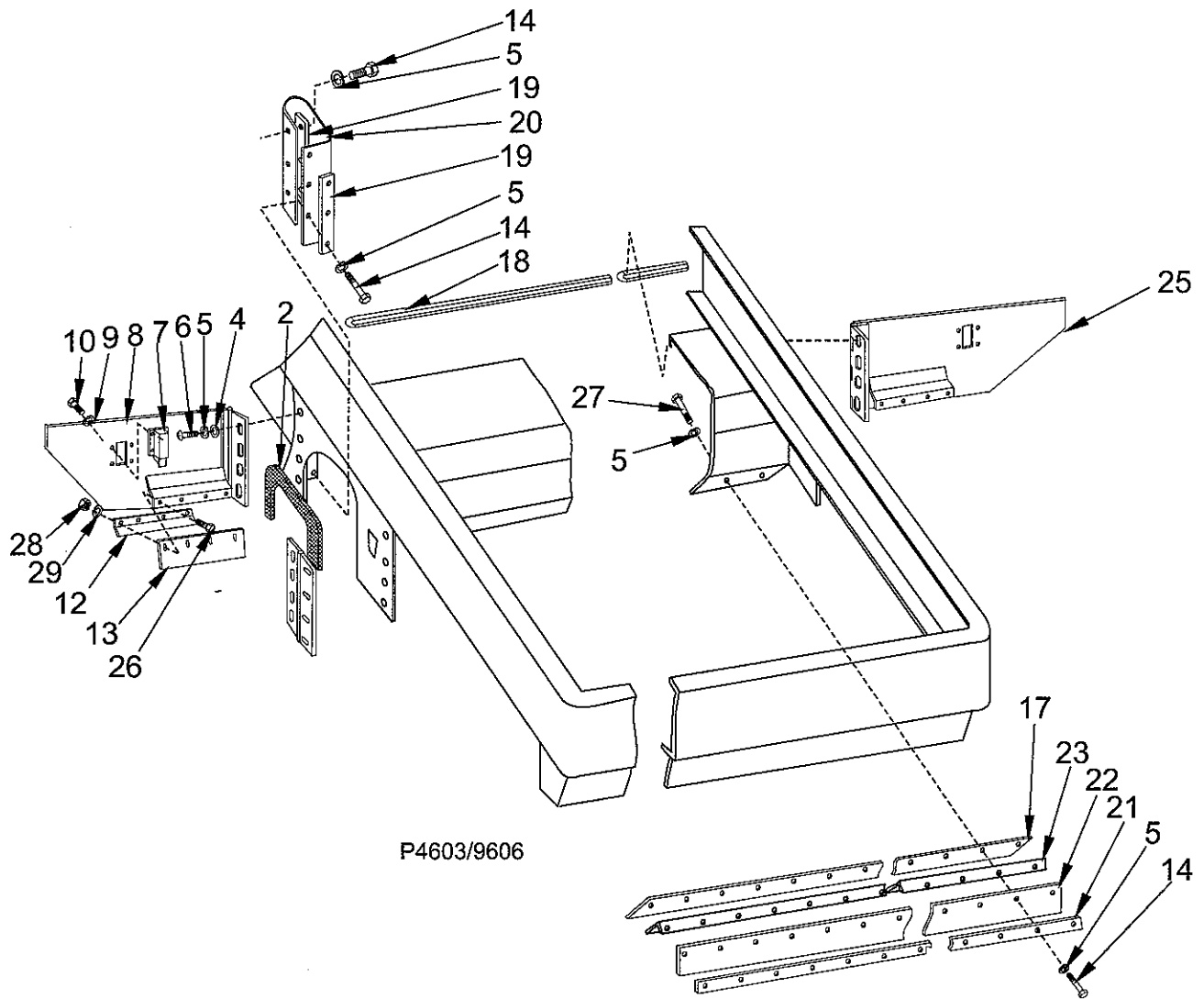


BROOM AND BRUSH CHAMBER DOOR - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-00054	Screw, 1/4 - 20 x .500 RHM	8
2	7-29-00226	Main Broom Door Gasket	2
3	2-00-00589	Nut, Hex Jam 1/4-20 x .437 x .156	8
4	2-00-00407	Flat Washer, .687 x .343 x .062	24
5	2-00-00518	Lock Washer, Helical Spring 1/4 Med	50
6	2-00-04880	Screw, 1/4 - 20 x .750 BHS	16
7	8-41-00032	Flush Mount Latch	4
8	7-19-08026	Left Hand Broom Chamber Door	1
9	2-00-00529	Lock Washer, Helical Spring #8 Med	16
10	2-00-01081	Screw, #8 - 32 x .500 T/C RH	16
11	2-00-00594	Nut, Hex 1/4 - 20 .437 x .218	16
12	7-79-00056	Door Flap Strap	2
13	7-25-08033	Broom Chamber Door Flap	2
14	2-00-00221	Screw, 1/4 - 20 x .750 HHC	25
15	7-19-08031	Left Hand Scrubbing Access Door	1
16	7-32-00021	Scrub Door Hinge	2
17	7-25-08036	Front Broom Chamber Flap	1
18	7-29-00147	Gasket	1
19	7-79-00055	Broom Chamber Strap	4
20	7-25-08034	Broom Chamber Flap	2
21	7-79-00054	Broom Chamber Flap Strap	1
22	7-25-08032	Broom Chamber Flap	1
23	7-08-00487	Flap Bracket Weldment	1
24	7-19-08032	Right Hand Scrubbing Access Door	1
25	7-19-08025	Right Hand Broom Chamber Door	1
26	2-00-04190	Carriage Bolt, 1/4 - 20 x .63	8
27	2-00-01490	Screw, 1/4 - 20 x .875 HHC	13
28	2-00-00589	Nut, 1/4-20 Hex	8
29	2-00-00501	Washer, 1/4 Lock	8

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BROOM AND BRUSH CHAMBER DOOR - EXPLODED VIEW

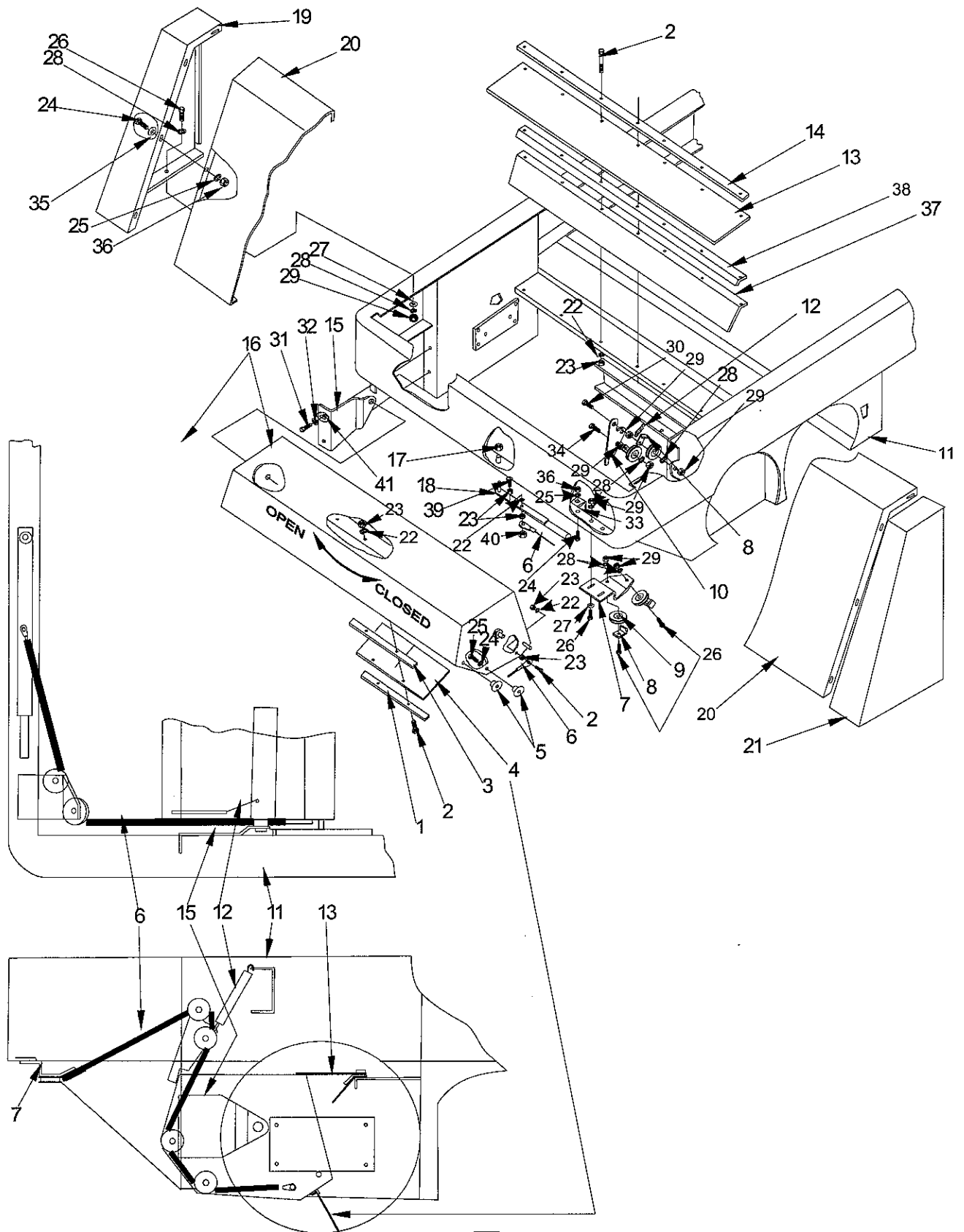


HOPPER SYSTEM (MANUAL DUMP) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-79-00072	Hopper Flap Strap	4
2	2-00-00205	Screw, 1/4-20 x 1.000 HHC	15
3	7-13-07129	Hopper Flap Clamp	4
4	7-25-08050	Hopper Flap	4
5	7-30-08013	Cable Gide	2
6	7-10-00027	Hopper Lift Cable	1
7	7-08-00706	Pulley Mounting Bracket	1
8	7-13-07130	Cable Retainer Clip	4
9	7-60-00160	Cable Pulley	4
10	7-41-00029	Hopper Latch	1
11	7-27-07160	Main Frame	1
12	8-76-00045	Spring	1
13	7-25-08051	Baffle Flap	1
14	7-13-07131	Baffle Clamp	1
15	7-08-00752	Hopper Pivot Plate	2
16	7-32-06014	Hopper	1
17	8-15-01016	Collar	1
18	7-31-06069	Hopper Dump Handle	1
19	7-16-07340	Right Hand Cover	1
20	7-16-07341	Center Cover	1
21	7-16-07339	Left Hand Cover	1
22	2-00-00518	Lock Washer, 1/4 Helical Spring	17
23	2-00-00594	Nut, Hex 1/4-20	19
24	2-00-01255	Screw, 5/16-18 x .875 HHC	11
25	2-00-00530	Lock Washer, 5/16 Helical Spring	11
26	2-00-00209	Screw, 3/8-16 x 1.250 HHC	8
27	2-00-00402	Flat Washer, 3/8 BS	10
28	2-00-02310	Lock Washer, 3/8 Helical Spring	8
29	2-00-02360	Nut, Hex 3/8-16	14
30	2-00-02711	Screw, 3/8-16 x2.750 HHM	1
31	2-00-00240	Screw, 1/2-13 x 1.250 HHC	4
32	2-00-02312	Lock Washer, 1/2 Helical Spring	4
33	7-41-00031	Handle Latch	1
34	2-00-00235	Screw, 3/8-16 x 1.750 HHC	1
35	2-00-00409	Flat Washer, 5/16 BS	8
36	2-00-00585	Nut, Hex 5/16-18	9
37	7-25-08052	Lower Baffle Flap	1
38	7-13-07136	Lower Baffle Clamp	1
39	2-00-00198	Carriage Bolt, 1/4-20 x 2.000	1
40	2-00-00641	Nut, Fiber Lock 1/4-20	1
41	2-00-00405	Flat Washer 1/2 B.S	4

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HOPPER SYSTEM (MANUAL DUMP) - EXPLODED VIEW



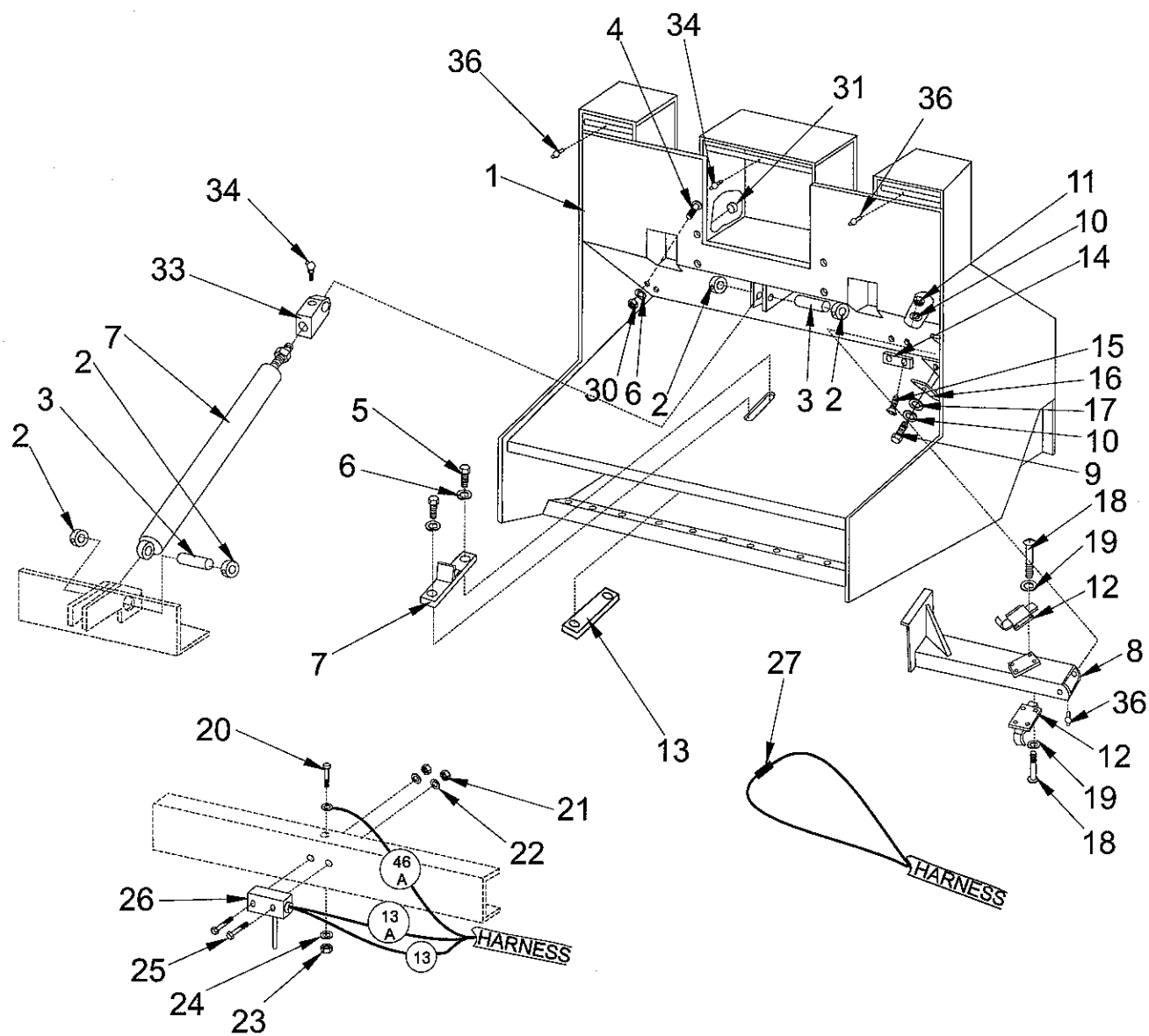
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HOPPER (LOW DUMP) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-32-06006	Debris Hopper	1
2	8-15-01003	Setscrew Collar, 1.250 x .750 x .562	4
3	7-55-08117	Lift Cylinder Pin	2
4	2-00-00232	Screw, 3/8 - 16 x .25	4
5	2-00-00233	Screw, 3/8 - 16 x 1.000 HHC	2
6	2-00-02310	Lock Washer, Helical Spring 3/8 Med	6
7	7-17-05013	Lift Cylinder	1
8	7-81-00136	Support Arm	1
9	2-00-00219	Screw, 1/4 - 20 x .500 HHC	1
10	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
11	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	4
12	7-41-00019	Latch	2
13	7-58-05218	Strap	1
14	7-41-00021	Latch Plate	1
15	2-00-02810	Screw, 1/4 - 20 x 1.000 FHM	2
16	7-65-00031	Retainer Pin	1
17	2-00-00462	Flat Washer, .562 x .250 x .031	1
18	2-00-00049	Screw, #10 - 24 x .500 RHM	8
19	2-00-00519	Lock Washer, Helical Spring #10 Med	8
20	2-00-00221	Screw, 1/4 - 20 x .750 HHC	6
21	2-00-01372	Nut, 8-32 Fibre Lock	2
22	2-00-00519	Lock Washer, Helical Spring #10 Med	2
23	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	2
24	2-00-00501	Internal Lock Washer	1
25	2-00-00049	Screw, #10 - 24 x .500 RHM	2
26	8-82-00058	Hopper Switch	1
27	2-00-01128	Butt Splice	1
28			
29			
30	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	4
33	2-00-02371	Nut, Hex Jam 1/2 - 13 x .750 x .312	4
32			
33	8-14-01010	Dump Cylinder Clevis	1
34	2-00-02557	Lubrication Fitting, 45° 1/8 NPT	1
35	7-75-01122	Spacer, Latch Plate (Safety Arm)	1
36	2-00-00566	Grease Fitting	

P4820a

HOPPER (LOW DUMP) - EXPLODED VIEW

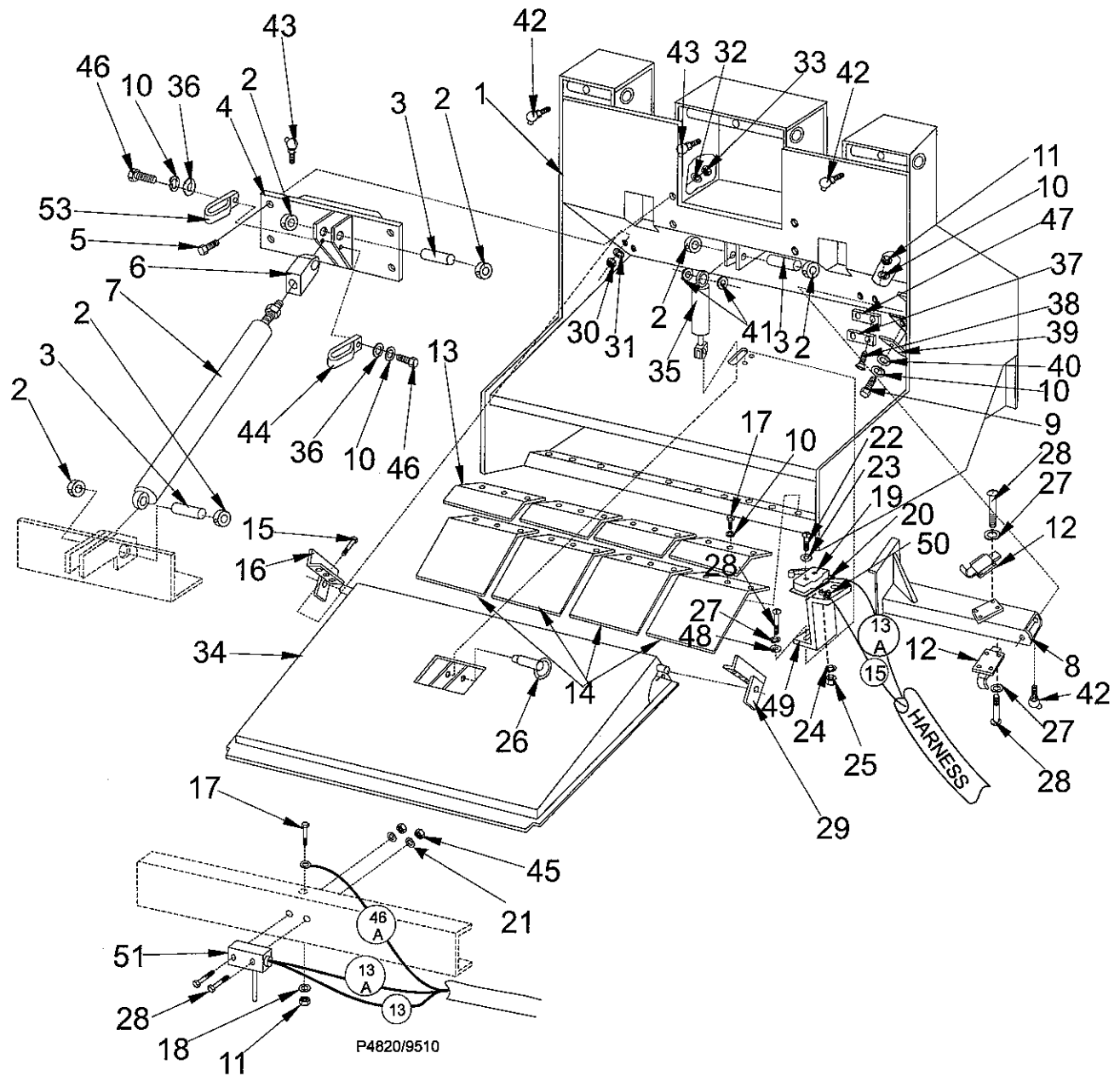


P4820A/9510

HOPPER AND FLAPS (VARIABLE DUMP) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-32-06006	Debris Hopper	1
2	8-15-01003	Setscrew Collar, 1.250 x .750 x .562	6
3	7-55-08117	Lift Cylinder Pin	3
4	7-14-01018	High Dump Clevis	1
5	2-00-01254	Screw, 1/2 - 13 x 1.500 HHCS	4
6	8-14-01010	Dump Cylinder Clevis	1
7	7-17-05013	Lift Cylinder	1
8	7-81-00135	Support Arm	1
9	2-00-00219	Screw, 1/4 - 20 x .500 HHC	1
10	2-00-00518	Lock Washer, Helical Spring 1/4 Med	18
11	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	11
12	7-41-00019	Latch	2
13	7-79-00052	Hopper Flap Strap	4
14	7-25-08030	Hopper Flap	4
15	2-00-00233	Screw, 3/8 - 16 x 1.000 HHC	4
16	7-57-05028	Right Hand Pivot	1
17	2-00-00221	Screw, 1/4 - 20 x .750 HHC	6
18	2-00-00501	Internal Lock Washer	6
19	7-82-00089	Switch	1
20	7-35-00013	Insulator	1
21	2-00-00090	Screw, 8-32 x 1.500 RHM)	2
22	2-00-05060	Screw, #6-32 x 1.250 RHM	2
23	2-00-00455	Flat Washer, .375 x .156 x .046	2
24	2-00-01499	Lock Washer, Helical Spring #6 Med	2
25	2-00-00624	Nut, Hex MS #6 - 32 x .312 x .109	2
26	7-55-08121	Lift Pin	1
27	2-00-00519	Lock Washer, Helical Spring #10 Med	12
28	2-00-00049	Screw, #10 - 24 x .500 RHM	4
29	7-57-05027	Left Hand Pivot	1
30	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	4
31	2-00-02310	Lock Washer, Helical Spring 3/8 Med	4
32	2-00-02312	Lock Washer, 1/2 Int.	4
33	2-00-00596	Nut, Hex Jam 1/2 - 13	4
34	7-19-08030	Debris Door	1
35	7-17-05011	Hydraulic Cylinder	1
36	2-00-03702	Flat Washer, .625 x .281 x .062	2
37	7-41-00021	Latch Plate	1
38	2-00-02810	Screw, 1/4 - 20 x 1.000 FHM	2
39	7-65-00031	Retainer Pin	1
40	2-00-00462	Flat Washer, .562 x .250 x .031	1
41	7-75-01102	Spacer	2
42	2-00-00566	Grease Fitting	3
43	2-00-02558	Grease Zerk	2
44	2-00-04378	Harness Clamp	1
45	2-00-01372	Nut, 8-32 Fibre Lock	2
46	2-00-00220	Screw, 1/4-20 x .625 HHC	1
47	7-75-01122	Latch Plate Spacer	1
48	2-00-00426	Flat Washer, #10	2
49	7-08-00711	HD-SW Bracket	1
50	2-00-00511	Internal Washer, #6	2
51	8-82-00058	Hopper Switch	1
52			
53	2-00-04603	Clamp	1

HOPPER AND FLAPS (VARIABLE DUMP) - EXPLODED VIEW

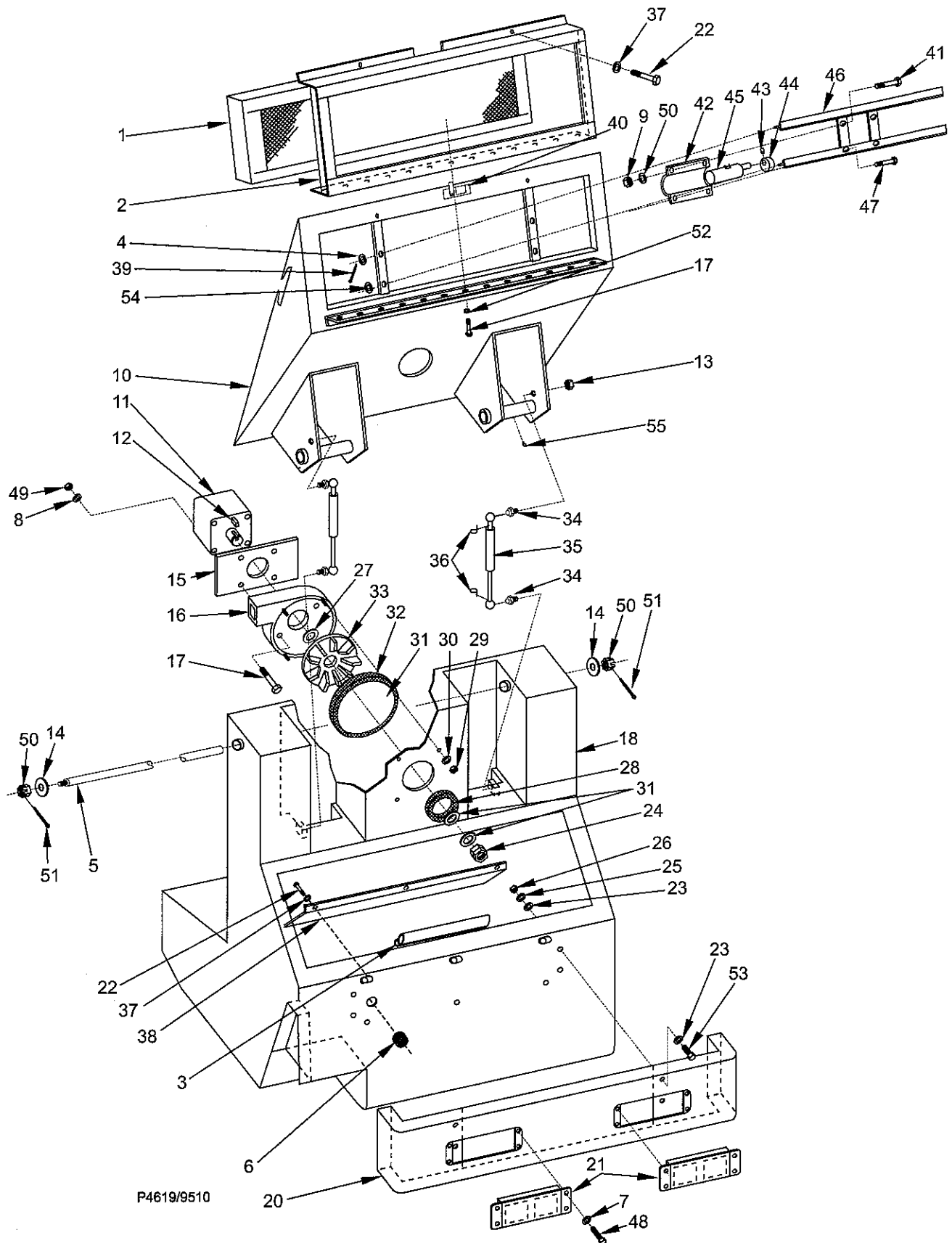


HOPPER FILTER AND IMPELLER - PARTS LIST

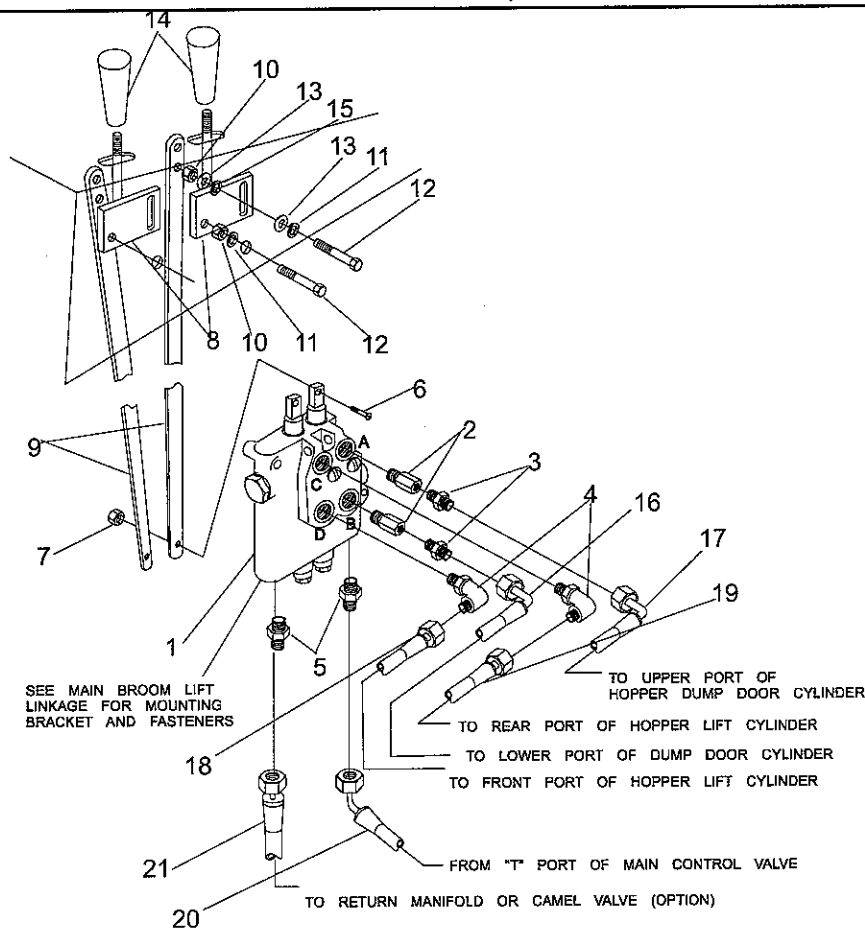
KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-24-04028-1	Dust Filter	1
2	7-32-03011	Dust Filter Cradle	1
3	7-29-00158	Gasket	1
4	2-00-00409	Flat Washer, .687 x .343 x .062	4
5	7-55-08127	Hinge Pin	1
6	2-00-04721	Grommet, 1.750 x 1.125 x .500 x .125	1
7	2-00-00407	Flat Washer, .562 x .265 x .062	8
8	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
9	2-00-00641	Nut, Hex Fiber Insert 1/4 - 20	4
10	7-16-07271	Hopper Lid	1
11	0882-041	Impeller Motor	1
12	2-00-02227	Key, .125 x .750 SQ	1
13	2-00-00644	Nut, Hex Fiber Insert 5/16 - 18	4
14	2-00-03170	Flat Washer, 1.500 x .750 x .125	2
15	7-75-01087	Motor Spacer	1
16	8-72-00005	Impeller Shroud	1
17	2-00-02655	Screw, 5/16 - 18 x 4.500 HHC	4
18	7-32-06006	Debris Hopper	1
19			
20	7-08-07053	Bumper	1
21	8-08-00614	Headlight Plate, With Knockout	2
22	2-00-00221	Screw, 1/4 - 20 x .750 HHC	5
23	2-00-00405	Flat Washer, 1.000 x .597	4
24	2-00-03412	Nut, Lock 3/8 - 24 x .562 x .281	1
25	2-00-02312	Lock Washer, Helical Spring 1/2 Med	4
26	2-00-00240	Screw, 1/2-13 x 1.250 HHC	8
27	2-00-00484	Flat Washer, .625 x .375 x .046	4
28	8-29-00093	Fan Seal	1
29	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	4
30	2-00-00501	Lock Washer, 1/4 Int.	4
31	2-00-00402	Flat Washer, 3/8"	1
32	8-29-00111	Shroud Gasket	1
33	8-23-00014	Impeller	1
34	7-80-05067	Ball Stud	4
35	7-76-00105	Gas Spring	2
36	7-13-07102	Safety Clip	4
37	2-00-00518	Lock Washer, Helical Spring 1/4 Med	3
38	7-52-00085	Panel Baffle	1
39	2-00-00772	Cotter Pin, .093 x 1.000	4
40	8-41-00040	Latch	4
41	2-00-00221	Screw, 1/4 - 20 x .750 HHC	2
42	8-16-07181	Shaker Motor Cover	1
43	2-95-01929	Setscrew, 1/4 - 20 x .250 HS-CP	1
44	8-89-04017	Shaker Weight	1
45	0882-053-1	Shaker Motor	1
46	7-27-07128	Shaker Motor Base	1
47	2-00-02810	Screw, 1/4 - 20 x 1.000 FHM	2
48	2-00-04877	Screw, 1/4 - 20 x 1.000 BHS	8
49	2-00-00586	Nut, Hex Jam 5/16 - 18 x .500 x .187	4
50	2-00-04841	Nut, Hex Slotted 3/4-16 x 1.125 x .641	2
51	2-00-00776	Cotter Pin, .125 x 1.500	2
52	2-00-00426	Flat Washer	13
53	2-00-02728	Screw, 10-32 x .375 BHM	13
54	2-00-03702	Flat Washer, 1/4 I.D.	4
55	2-00-00566	Fitting, Grease	2

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HOPPER FILTER AND IMPELLER - EXPLODED VIEW

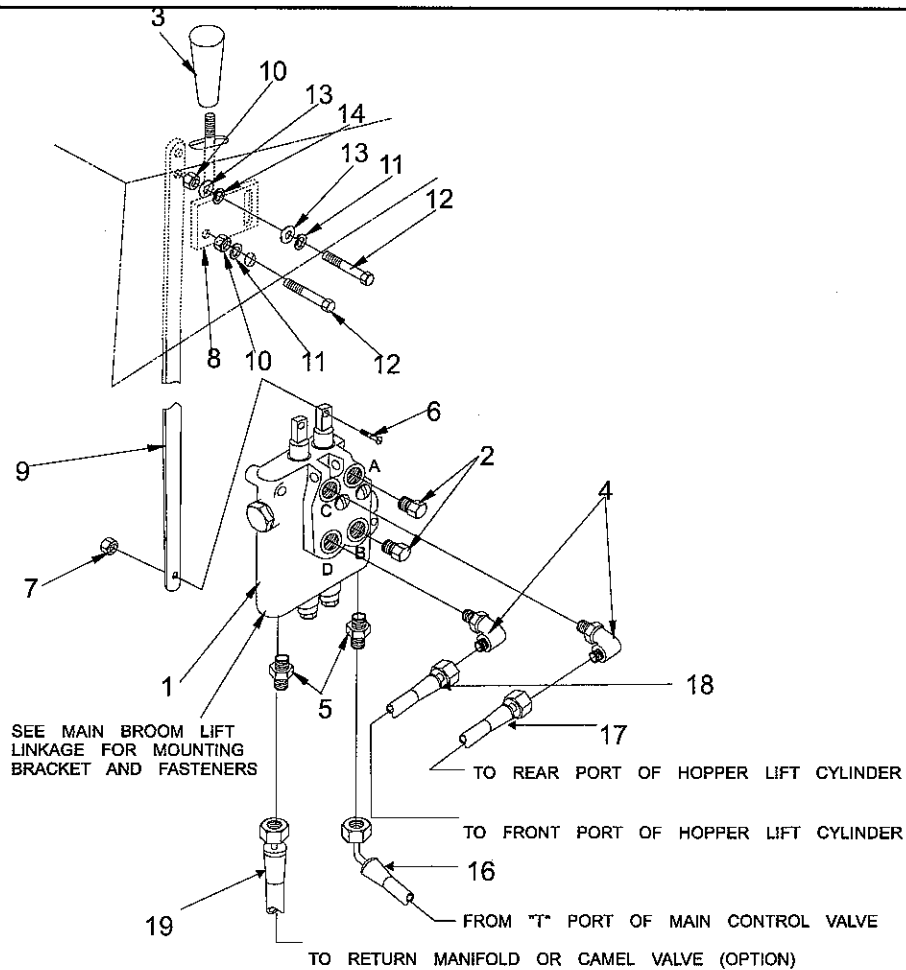


HOPPER CONTROL VALVE & DUMP LINKAGE (VARIABLE DUMP)



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-88-00053	Hopper Control Valve	1
2	2-00-04917	ORFS Boss Reducer, 9/16-18 to 7/16-20	2
3	2-00-04895	ORFS Connector, 7/16-20 to 9/16-18	2
4	2-00-04926	ORFS 90° Elbow, 9/16-18	2
5	2-00-04970	Fitting - Straight	2
6	2-00-00056	Screw, #10 - 24 x .750 RHM	2
7	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	2
8	7-41-05084	Lever	2
9	7-42-05089	Link	2
10	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	4
11	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
12	2-00-02706	Screw, 1/4-20 x 1.000 HHM	4
13	2-00-03702	Flat Washer, .625 x .281 x .062	4
14	7-31-06059	Handle	2
15	2-00-00498	Lock Washer, .250 Ext	2
16	7-33-02195	Hose	Ref.
17	7-33-02194	Hose	Ref.
18	7-33-02180	Hose	Ref.
19	8-33-02187	Hose	Ref.
20	8-33-02201	Hose	Ref.
21	8-33-02214	Hose	Ref.

HOPPER CONTROL VALVE & DUMP LINKAGE (LOW DUMP)



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-88-00053	Hopper Control Valve	1
2	2-00-04916	ORFS Boss Plug, 9/16-18	2
3	7-31-06059	Handle	1
4	2-00-04926	ORFS 90° Elbow, 9/16-18	2
5	2-00-04970	Fitting - Straight	2
6	2-00-00056	Screw, #10 - 24 x .750 RHM	1
7	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	1
8	7-41-05084	Lever	1
9	7-42-05089	Link	1
10	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	2
11	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
12	2-00-02706	Screw, 1/4-20 x 1.000 HHM	2
13	2-00-03702	Flat Washer, .625 x .281 x .062	2
14	2-00-00498	Lock Washer, .250 Ext	2

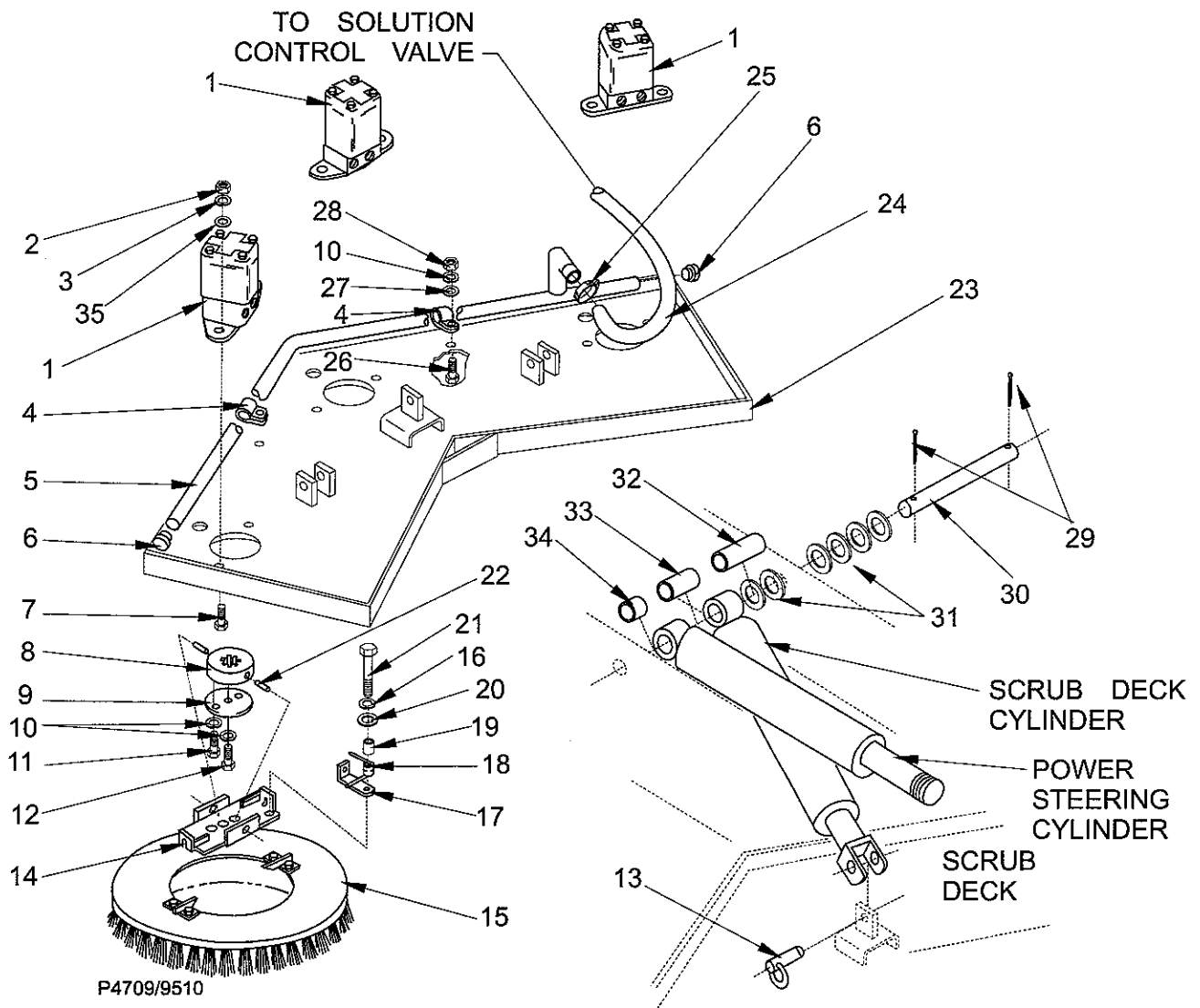
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SCRUB DECK AND BRUSHES - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	0782-111	Brush Drive Motor	3
	0780-143	Seal Kit	
2	2-00-00596	Nut, Hex 1/2 - 13 x .750 x .437	6
3	2-00-02312	Lock Washer, Helical Spring 1/2 Med	6
4	2-00-04564	Cable Clamp,	2
5	7-87-02123	Solution Feed Tube	1
6	7-25-02026	Plug	2
7	2-00-00241	Screw, 1/2 - 13 x 1.750 HHC	6
8	7-33-09013	Drive Hub	3
9	7-58-05181	Hub Plate	3
10	2-00-00530	Lock Washer, Helical Spring 5/16 Med	11
11	2-00-00224	Screw, 5/16 - 18 x .500 HHC	6
12	2-00-05087	Screw, 5/16 - 18 x .750 HSHC	3
13	7-55-08121	Lift Pin,	1
14	7-03-04070	Brush Disc Drive Arm	3
15		See Brush Options in Chapter 3	
16	2-00-00518	Lock Washer, 5/16 Med.	6
17	7-41-00007	Brush Latch	6
18	7-76-00089	Latch Spring	6
19	7-09-01062	Spacer,	6
20	2-00-04054	Flat Washer, .875 x .265 x .062	
21	2-00-02587	Screw, 1/4 - 20 x 1.250 HHC	6
22	2-00-04222	Radial Locking Spring Pin, .500 x 1.250	6
23	7-27-07127	Scrub Deck Frame	1
24	7-33-02153	Hose	1
25	2-00-02220	Hose Clamp, .812 - 1.500	1
26	2-00-01255	Screw, 5/16 - 18 x .875 HHC	2
27	2-00-00409	Flat Washer, .687 x .343 x .062	2
28	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	2
29	2-00-00776	Cotter Pin, .125 x 1.500	2
30	7-55-08118	Cylinder Pin,	1
31	2-00-00432	Flat Washer, 1.125 x .765 x .062	6
32	7-75-01092	Spacer,	1
33	7-75-01091	Spacer,	1
34	7-75-01093	Spacer,	1
35	2-00-00405	Washer Flat, 1/2	6

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SCRUB DECK AND BRUSHES - EXPLODED VIEW

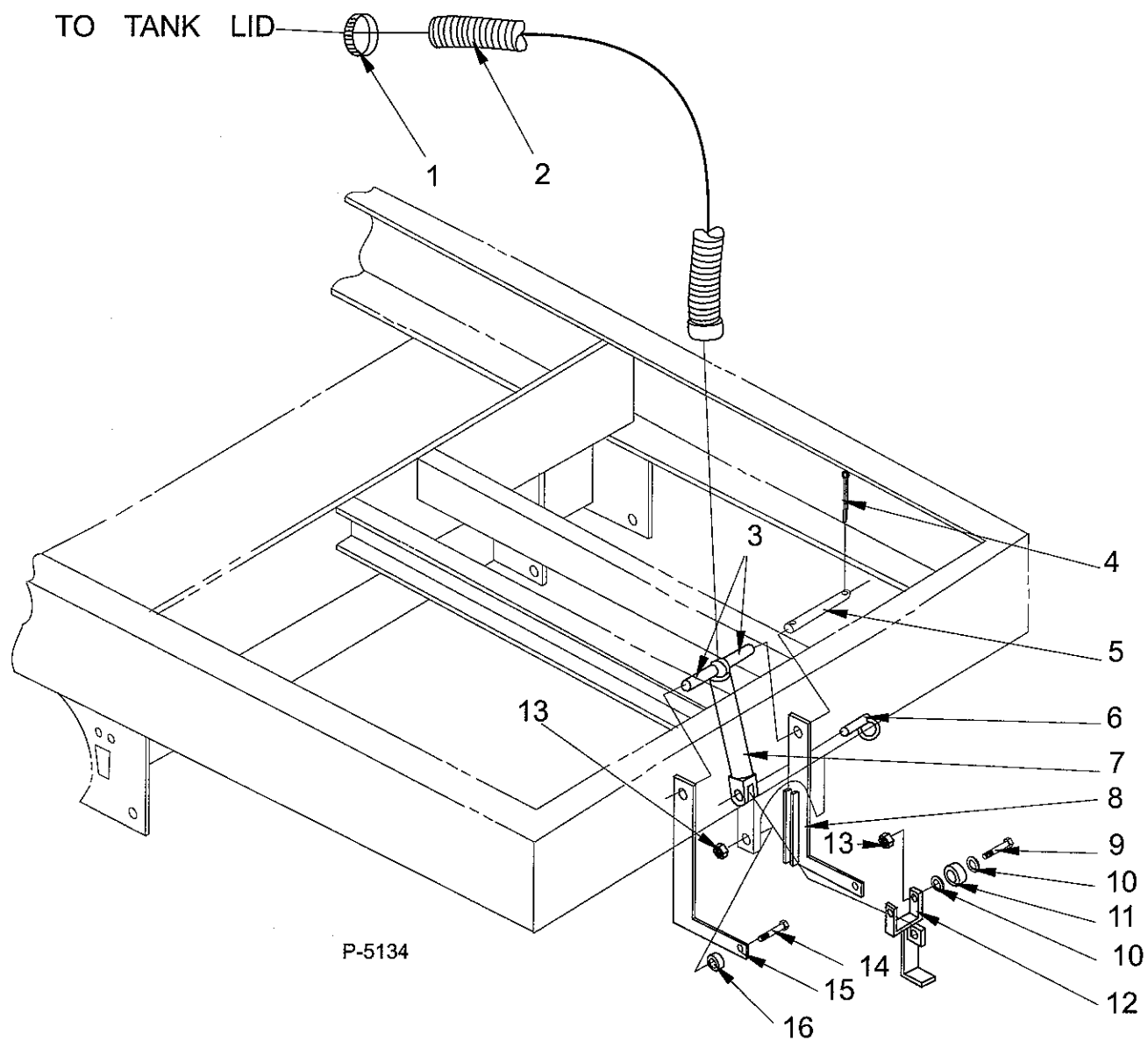


SQUEEGEE LIFT - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-13-07104	Hose Clamp	1
2	7-33-02256	Vacuum Hose	1
3	7-75-01104	Spacer	2
4	2-00-00776	Cotter Pin, .125 x 1.500	2
5	7-55-08118	Cylinder Pin	1
6	7-55-08121	Lift Pin	1
7	7-17-05011	Hydraulic Cylinder	1
8	7-08-00527	Guide Rail (R.H.) Bracket	1
9	2-00-00209	Screw, 3/8-16 x 1.250 HHC	4
10	2-00-00484	Flat Washer, .625 x .375 x .046	8
11	2-00-01812	Double Seal Ball Bearing, .875 x .281	4
12	7-08-00528	Squeegee Lift Bracket	1
13	2-95-04182	Nut, Hex Fiber Insert 3/8 - 16	4
14	2-00-00234	Screw, 3/8 - 16 x 1.500 HHC	2
15	7-08-00526	Guide Rail (L.H.) Bracket	1
16	7-75-01105	Spacer, Squeegee Lift	2

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SQUEEGEE LIFT - EXPLODED VIEW



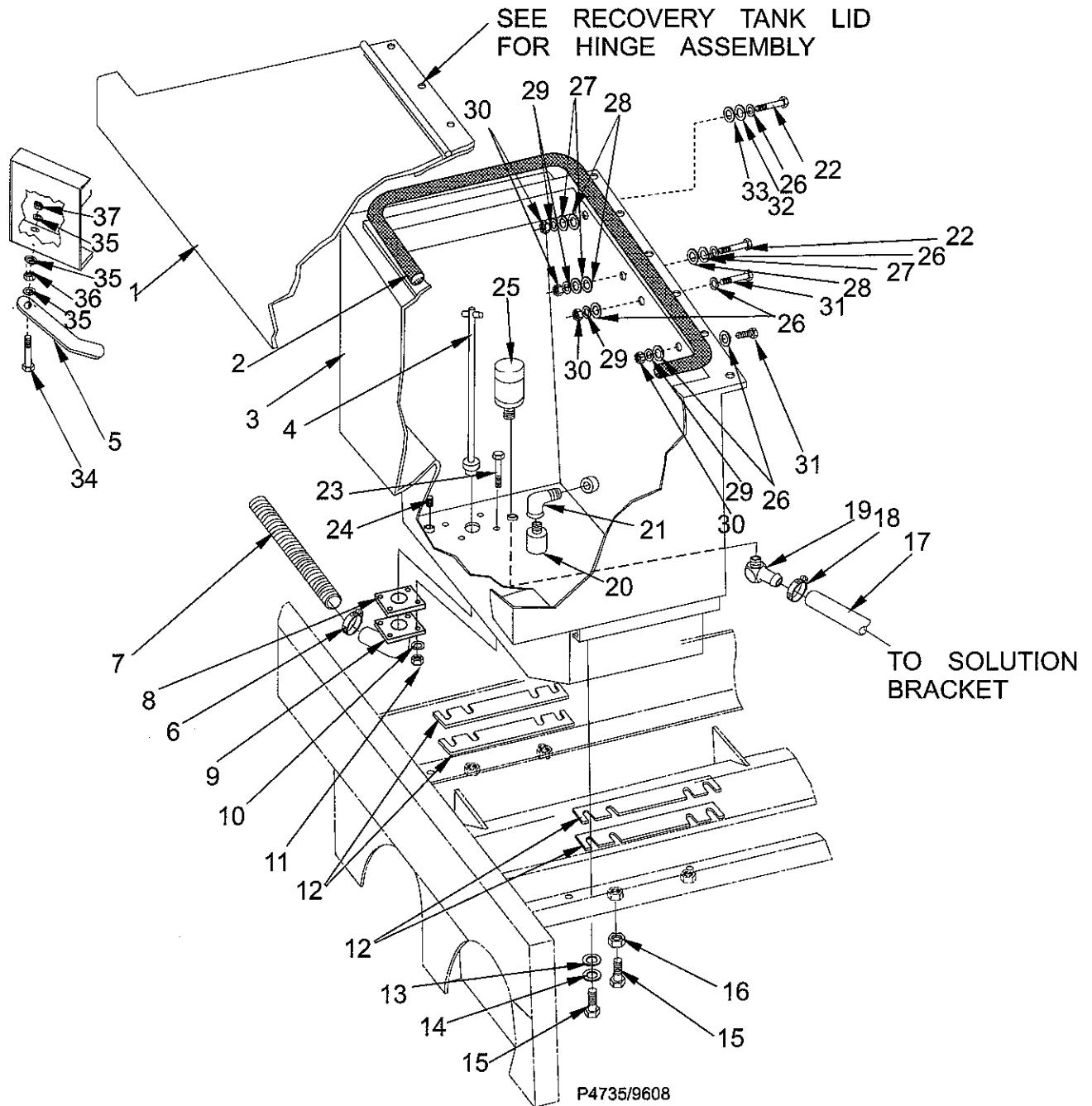
SOLUTION TANK - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-16-07275	Solution Tank Cover	1
2	7-29-00176	Solution Tank Gasket 95.000 L	1
3	7-83-04094	Solution Tank	1
*	7-83-04104	Solution Tank, Stainless Steel (Option)	1
4	0760-327	Drain Plug Assembly	1
5	7-87-02151	Tube	1
6	2-00-02214	Hose Clamp, 1.312 - 2.250	2
7	7-33-02026	Drain Hose, 28.000	1
8	7-29-00100	Tank Drain Gasket	1
9	7-25-02046	Drain Fitting	1
10	2-00-04691	Lock Washer, Helical Spring 5/16 Med SS	4
11	2-00-04692	Nut, Hex 5/16 - 18 x .500 x .265 SS	4
12	7-75-01088	Spacer	4
13	2-00-00405	Flat Washer, 1.062 x .531 x .093	4
14	2-00-02312	Lock Washer, Helical Spring 1/2 Med	4
15	2-00-01254	Screw, 1/2 - 13 x 1.500 HHC	8
16	2-00-02371	Nut, Hex Jam 1/2 - 13 x .750 x .312	4
17	7-33-02178	Hose	1
18	2-00-02220	Hose Clamp, .812 - 1.500	2
19	7-25-02038	90° Barb Stem Elbow 3/4 - 14	1
20	7-82-00017	Float Switch	1
21	2-00-05035	Pipe Elbow, 90° 1/4 NPT	1
22	2-00-04690	Screw, 1/4 - 20 x 1.000 HHC SS	2
23	2-00-05235	Screw, 5/16 - 18 x .875 HHC SS	4
24	2-00-02471	Pipe Plug, 1/4 NPT	1
25	7-24-04022	Pump Inlet Strainer	1
26	2-00-04590	Sealing Washer, .625 x .250	4
27	2-00-05237	Flat Washer, 1.062 x .265 x .062 SS	2
28	2-14-03197	Rubber Washer, 1.000 x .187 x .125	2
29	2-00-04687	Lock Washer, Helical Spring 1/4 Med SS	3
30	2-00-04688	Nut, Hex 1/4 - 20 x .437 x .218 SS	3
31	2-00-00251	Screw, 1/4 - 20 x .500 HHC SS	1
32	2-00-05236	Flat Washer, 2.000 x .2812 x .078 SS	2
33	2-00-05028	Rubber Washer, 2.000 x .2812 x .125	2

* 0780-131 Stainless Steel Option

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SOLUTION TANK - EXPLODED VIEW

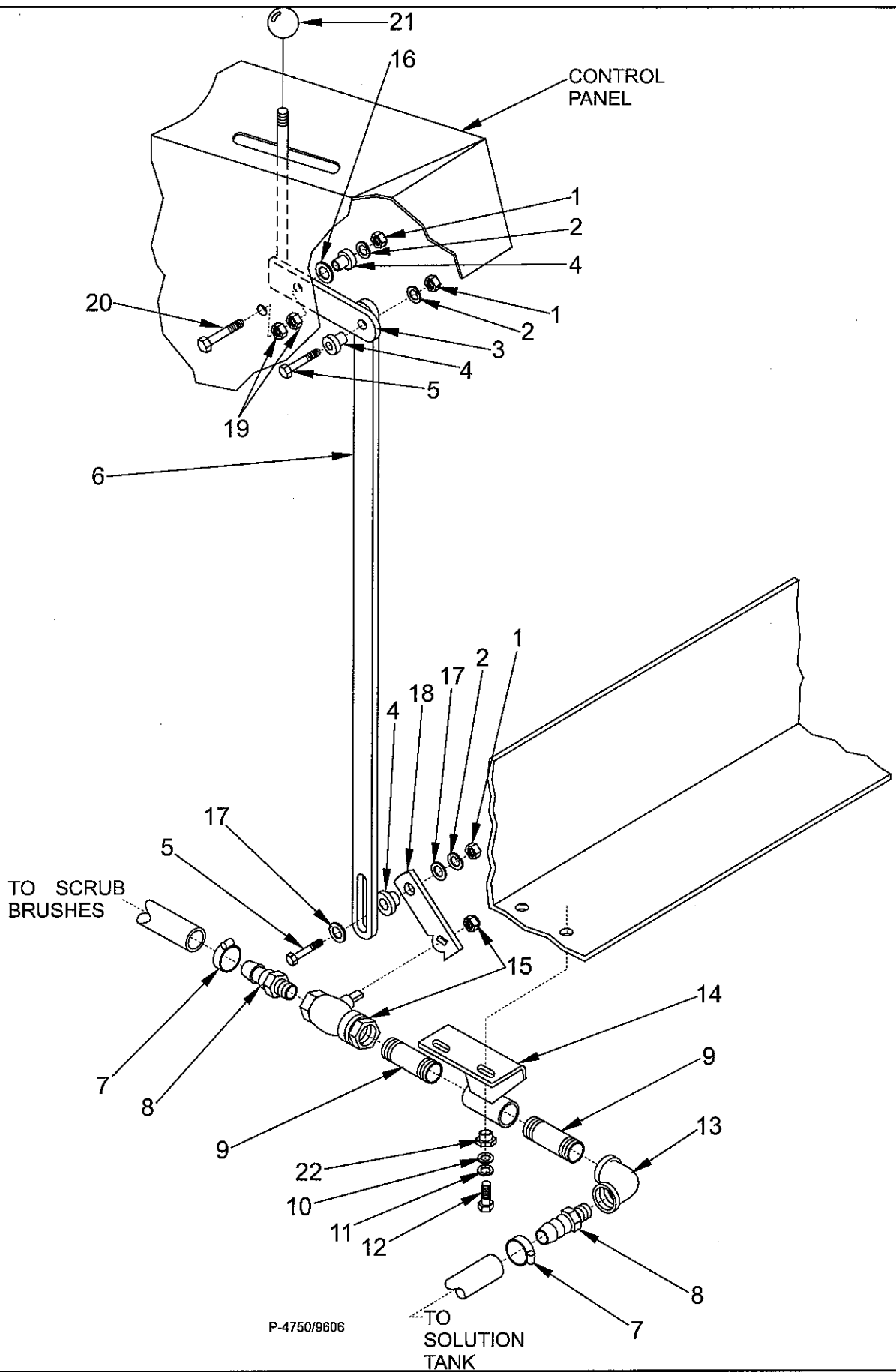


SOLUTION FEED LINKAGE - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	3
2	2-00-00530	Lock Washer, Helical Spring 5/16 Med	3
3	7-41-05086	Solution Control Lever	1
4	7-09-01057	Bushing	3
5	2-00-00207	Screw, 5/16 - 18 x 1.250 HHC	2
6	7-42-05090	Solution Control Link	1
7	2-00-02220	Hose Clamp, .812 - 1.500	2
8	7-25-02012	Hose Fitting, Barbed 3/4 14 NPT	2
9	2-00-03586	Pipe Nipple, 3/4 NPT x 2.00 short	2
10	2-00-03702	Flat Washer, .625 x .281 x .062	2
11	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
12	2-00-00221	Screw, 1/4 - 20 x .750 HHC	2
13	2-95-02528	Pipe Elbow, 90° 3/4 NPT	1
14	7-08-00415	Bracket	1
15	7-88-00027	Ball Valve	1
16	2-00-03382	Spring Washer, .875 x .500 x .015	1
17	2-00-00409	Flat Washer, .687 x .343 x .0623	2
18	7-41-05085	Solution Valve Lever	1
19	2-00-00600	Nut, Hex Hvy. 3/8 - 16 x .687 x .359	2
20	2-00-00211	Screw, 5/16 - 18 x 1.750 HHC	1
21	8-39-00002	Knob	1

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SOLUTION FEED LINKAGE - EXPLODED VIEW



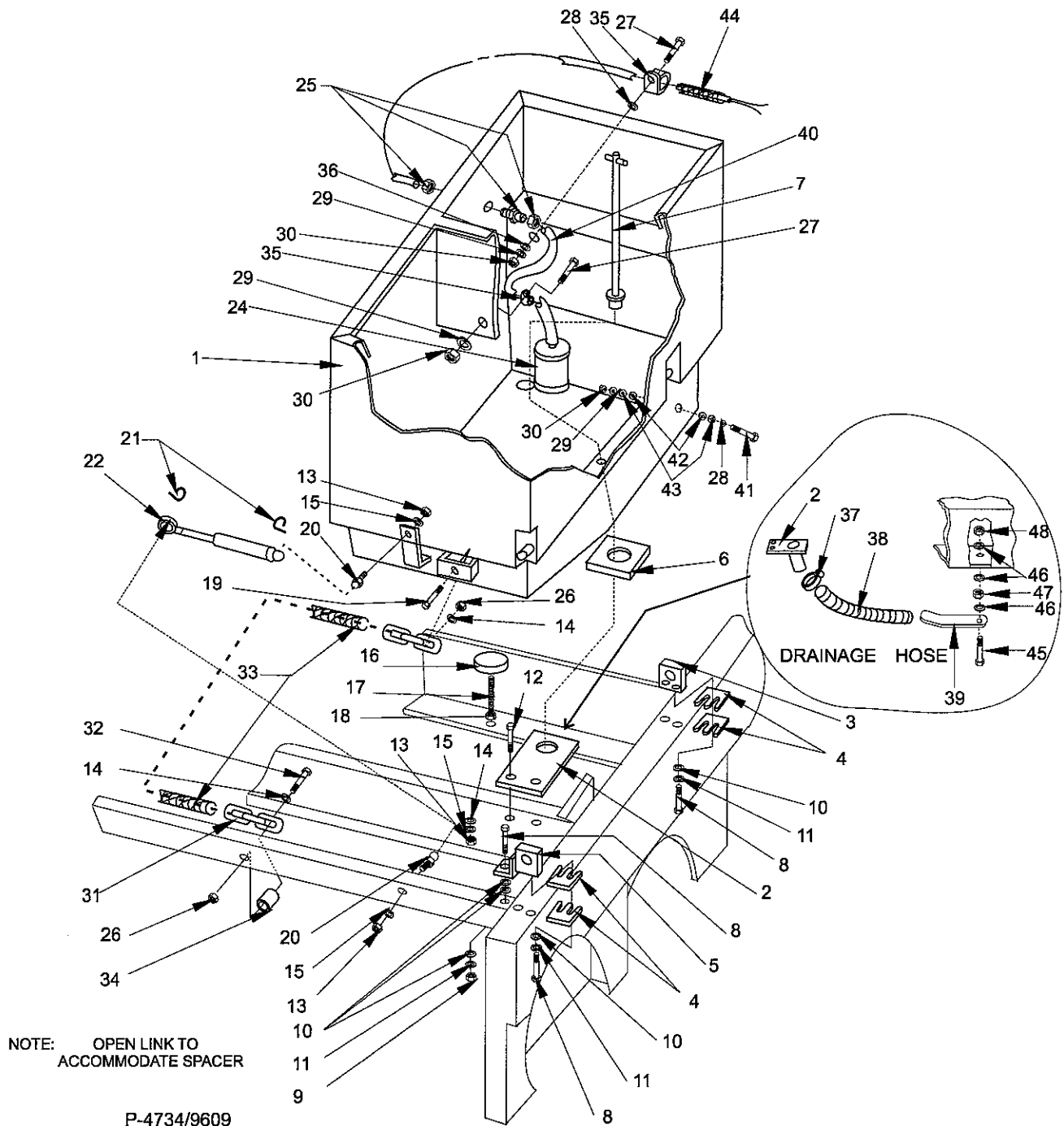
RECOVERY TANK - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-04685	Screw, 1/4 - 20 x .750 HHC SS	9
2	2-00-04602	Float Switch Clamp	3
3	2-00-04590	Sealing Washer, .625 x .250	12
4	8-09-01083	Float Switch Connector	1
5	2-00-04689	Flat Washer, .625 x .281 x .062 SS	1
6	2-00-04687	Lock Washer, Helical Spring 1/4 Med SS	12
7	2-00-04688	Nut, Hex 1/4 - 20 x .437 x .218 SS	13
8	7-82-00021	Float Switch	3
9	7-83-04095	Recovery Tank	1
10	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	4
11	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
12	7-80-05067	Stud, Gas Spring Ball	2
13	7-13-07102	Gas Spring Safety Clip	2
14	7-76-00103	Recovery Tank Tilt Gas Spring	1
15	2-00-00206	Screw, 5/16-18 x 1.000 HHC	4
16	2-00-00644	Nut, Hex Fiber Insert 5/16-18	2
17	2-00-05103	Flat Washer, .687 x .343 x .062 SS	4
18			
19	2-00-00196	Carriage Bolt, 5/16 - 18 x 1.000	2
20	7-13-05058	Chain	1
21	2-00-05028	Rubber Washer, 2.000 x .28 x .125	6
22	2-00-05236	Flat Washer, 2.000 x .28 x .08 SS	6
23	7-78-05009	Stop	2
24	8-80-05014	Stud, 1/2-13 UNF-2A x 2.50	2
25	2-00-02371	Nut, Hex Jam 1/2 - 13 x .750 x .312	2
26	2-00-03979	Flat Washer, 1.000 x .390 x .062	7
27	2-00-02310	Lock Washer, Helical Spring 3/8 Med	5
28	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	1
29	2-00-00209	Screw, 3/8 - 16 x 1.250 HHC	4
30	7-71-00009	Shim	4
31	7-08-00486	Bracket Weldment	1
32	7-56-05011	Fitting Weldment	1
33	7-81-00126	Support	1
34	7-29-00146	Gasket	1
35	0760-327	Drain Plug Assembly	1
36	8-43-00002	Wire Loom	1
37	2-00-02214	Hose Clamp, 1.312 - 2.250	2
38	7-33-02026	Hose	1
39	7-87-02151	Recovery Tank Drain Hose Tube	1
40	8-08-07038	Hose	1
41	2-00-04690	Screw, 1/4 - 20 x 1.000 HHC	3
42	2-00-00207	Screw, 5/16-18 x 1.250 HHC	1
43	7-75-01130	Spacer, .500 x .370 x .375	1
44	7-34-09018	Sleeve	1

Key No.s 12, 13 and 14 must be ordered together for proper fit.

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RECOVERY TANK - EXPLODED VIEW



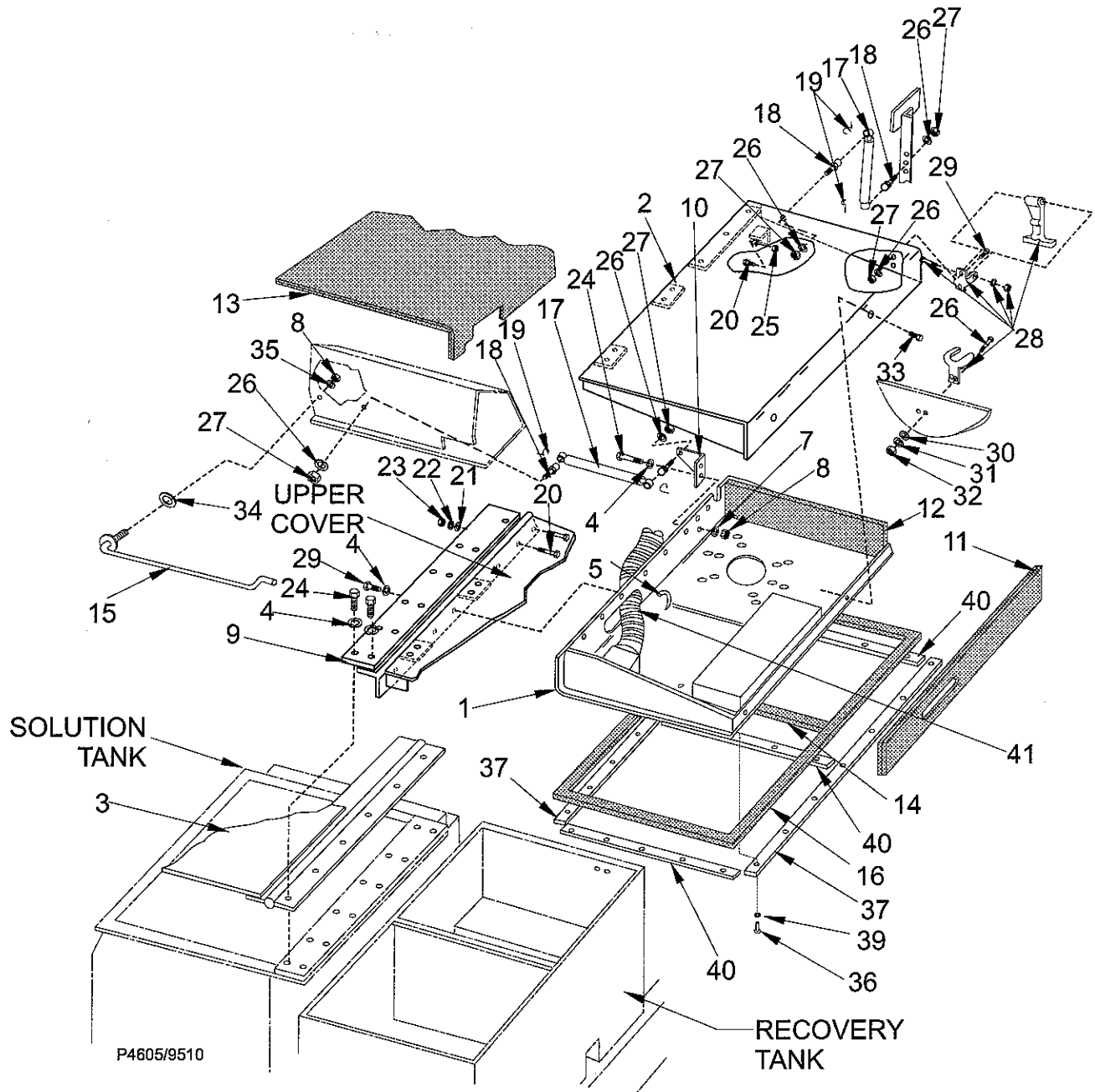
RECOVERY TANK LID - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-16-07295	Recovery Tank Upper Cover	1
2	7-16-07380	Recovery Tank Lower Cover	1
3	7-16-07275	Solution Tank Cover	1
4	7-76-00104	Gas Spring	2
5	7-80-05067	Stud	4
6	7-13-07102	Safety Clip	4
7	2-00-00518	Lock Washer, Helical Spring 1/4 Med	14
8	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	18
9	7-08-00490	Bracket	1
10	2-00-00221	Screw, 1/4 - 20 x .750 HHC	15
11	7-79-00057	Strap	1
12	2-00-04707	Pop Rivet, .125 Dia.	31
13	2-00-00455	Flat Washer #6	31
14	7-34-09021	Lower Cover Insulation	1
15	7-34-09020	Lower Cover Insulation	1
16	7-34-09019	Lower Cover Insulation	1
17	2-00-01254	Screw, 1/2-13 x 1.500 HHC	1
18	2-00-00596	Nut, Hex 1/2 - 13 x .750 x .437	1
19	2-00-03702	Flat Washer, .625 x .281 x .062	3
20	2-00-01255	Screw, 5/16 - 18 x .875 HHC	2
21	2-00-01803	Flat Washer, 1.062 x .328 x .062	2
22	2-00-00530	Lock Washer, Helical Spring 5/16 med	8
23	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	2
24	2-00-00644	Nut, Hex Fiber Insert 5/16-18	1
25	7-66-00145	Cover Support Rod	1
26	8-21-04018	Edging	1
27	2-00-04876	Screw, 1/4 - 20 x .500 BHS	8
28	8-41-00033	Latch Assembly	1
29	2-00-00118	Screw, #10 - 24 x .625 RHM	4
30	2-00-01974	Sealing Washer, .562 x #10 x .065	2
31	2-00-00519	Lock Washer, Helical Spring #10 Med	4
32	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	4
33	2-00-00208	Screw, 5/16-18 x .750 HHC	2
34	7-23-03048	Spring Washer, .750 x .312 x .013	1
35	2-00-00409	Flat Washer, .687 x .343 x .062	3
36	7-79-00084	Strap Gasket Retainer	2
37	7-79-00083	Strap Gasket Retainer	3
38	7-29-00232	Gasket, Center Section	1
39	7-29-00231	Gasket, Perimeter	1

Key No.s 4, 5 and 6 must be ordered together for proper fit.

P4605/9510

RECOVERY TANK LID - EXPLODED VIEW

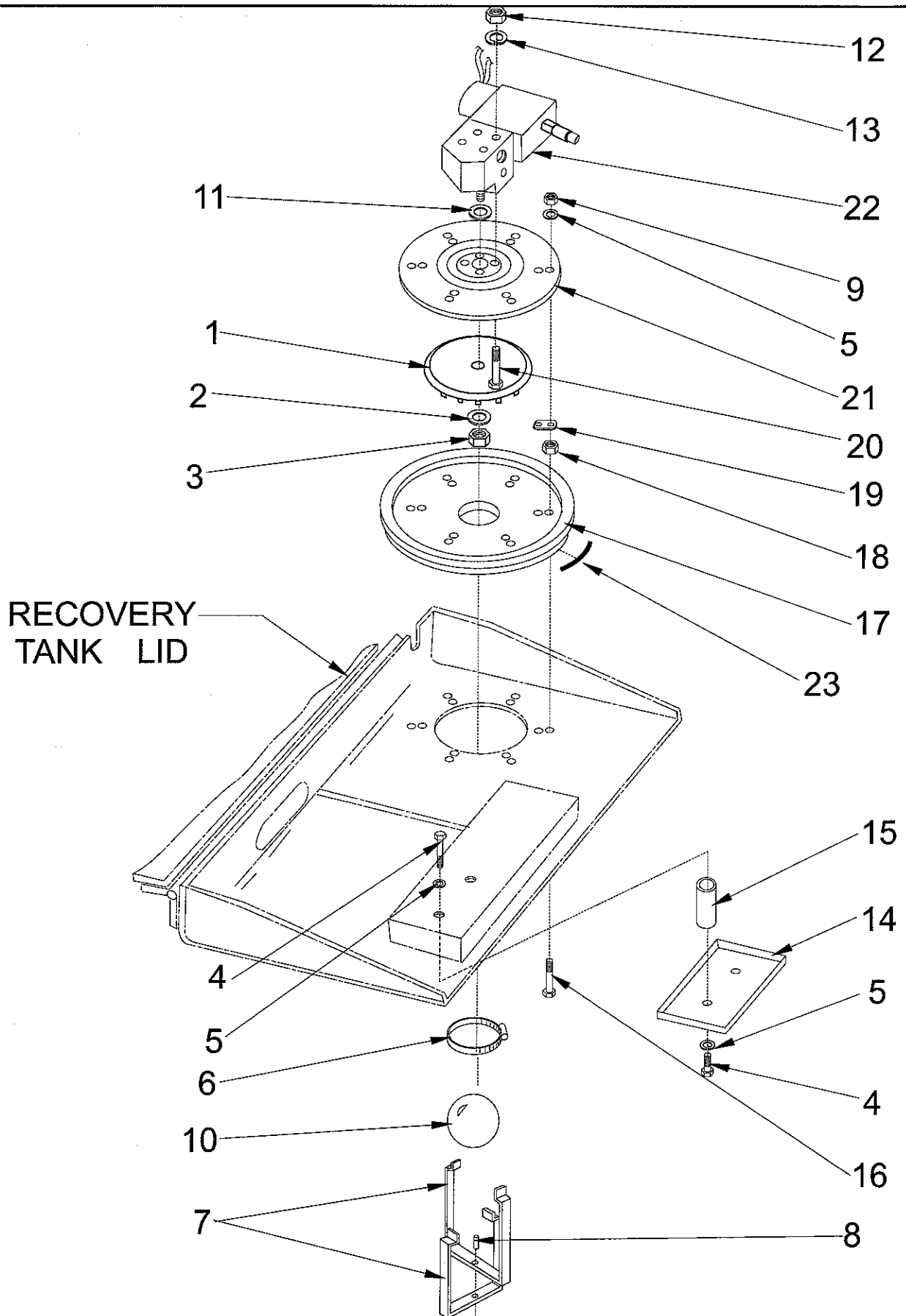


VACUUM MOTOR & FLOAT - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-34-04002	Impeller	1
2	2-00-00402	Flat Washer, .750 x .390 x .093	1
3	2-00-03412	Nut, Lock 3/8 - 24 x .562 x .281	1
4	2-00-00251	Screw, 1/4 - 20 x .500 HHCBB	4
5	2-00-00518	Lock Washer, Helical Spring 1/4 Med	16
6	2-00-03959	Hose Clamp, 3.562 - 4.500	
1			
7	7-79-00061	Strap-Float Ball	2
8	2-00-04115	Pop Rivet	1
9	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	12
10	7-26-04011	Ball Float	1
11	2-00-00484	Spacer, .625 x .375 x .046	1
12	2-00-00585	Nut, Hex 5/16 - 18 x .50 x .265	4
13	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
14	7-68-00025	Screen	1
15	7-81-00134	Support	2
16	2-00-00222	Screw, 1/4 - 20 x 1.250 HHC	12
17	7-20-06004	Fan Duct	1
18	2-00-00641	Nut, Hex Fiber Insert 1/4 - 20	12
19	7-75-01159	Spacer	6
20	2-00-02653	Screw, 5/16 - 18 x 3.500 HHC	4
21	7-16-07276	Fan Cover	1
22	0782-136	Vacuum Motor	1
23	7-21-04029	Edging	1
24	2-00-04707	Rivet-Pop- 1/8 x .312 (alum)	31
25	7-79-00081	Strap-Gasket Retainer	2
26	7-79-00082	Strap-Gasket Retainer	1
27	2-00-00455	Flatwasher, #10 Brass	31
28	7-79-00087	Strap-Gasket Retainer	2

P4721/9908

VACUUM MOTOR & FLOAT - EXPLODED VIEW



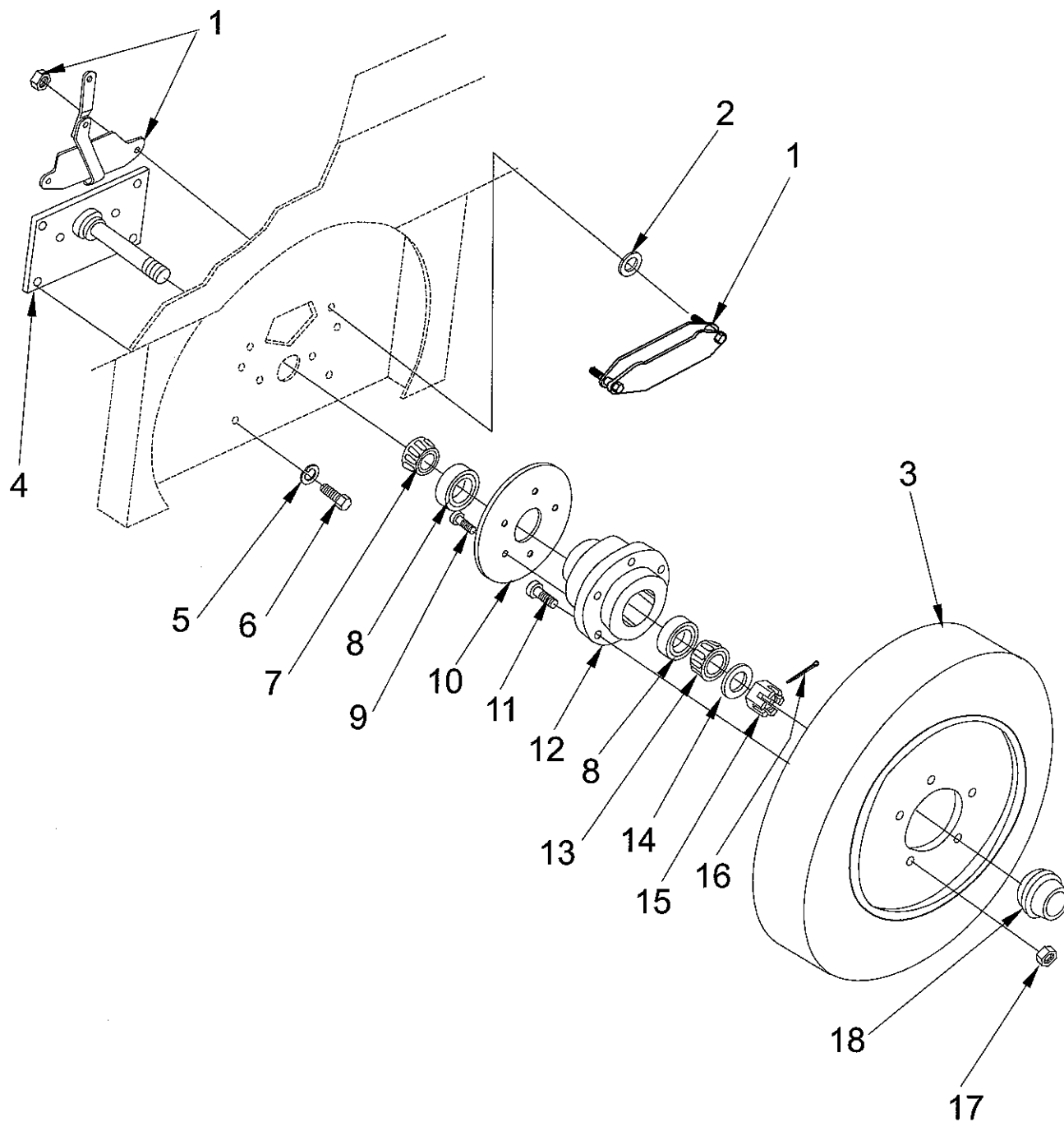
P-4721/9510

FRONT WHEEL AND BRAKE - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-08-02006	Brake Caliper Assembly Weldment	1
2	2-00-04953	Flat Washer, 1.062 x .390 x .062	1
3	7-89-08042	Molded Wheel	1
4	7-03-09007	Stub Axle Weldment	1
5	2-00-02312	Lock Washer, Helical Spring 1/2 Med	6
6	2-00-02689	Screw, 1/2 - 20 x 1.000 HHC	6
7	2-00-02079	Roller Bearing, 2.328 x 1.250 x .703	1
8	2-00-04621	Roller Bearing, Cup Only	2
9	2-00-03051	Screw, 1/4 - 20 .750 HSHC	5
10	7-08-02007	Brake Disc	1
11	8-80-05036	Stud, 1/2 - 20 x 1.375	5
12	7-33-09027	Front Wheel Hub	1
13	2-00-04622	Roller Bearing, Cone	1
14	2-00-05024	Washer, 1 1/16 x 2.00	1
15	2-00-05026	Nut, Slotted Hex 1 - 14 UNF	1
16	2-00-02436	Cotter Pin, .187 x 1.500	1
17	8-23-03065	Nut, Chamfered 1/2 - 20 x .80 x .62	5
18	8-11-00030	Dust Cap	1

P4758/9510

FRONT WHEEL AND BRAKE - EXPLODED VIEW

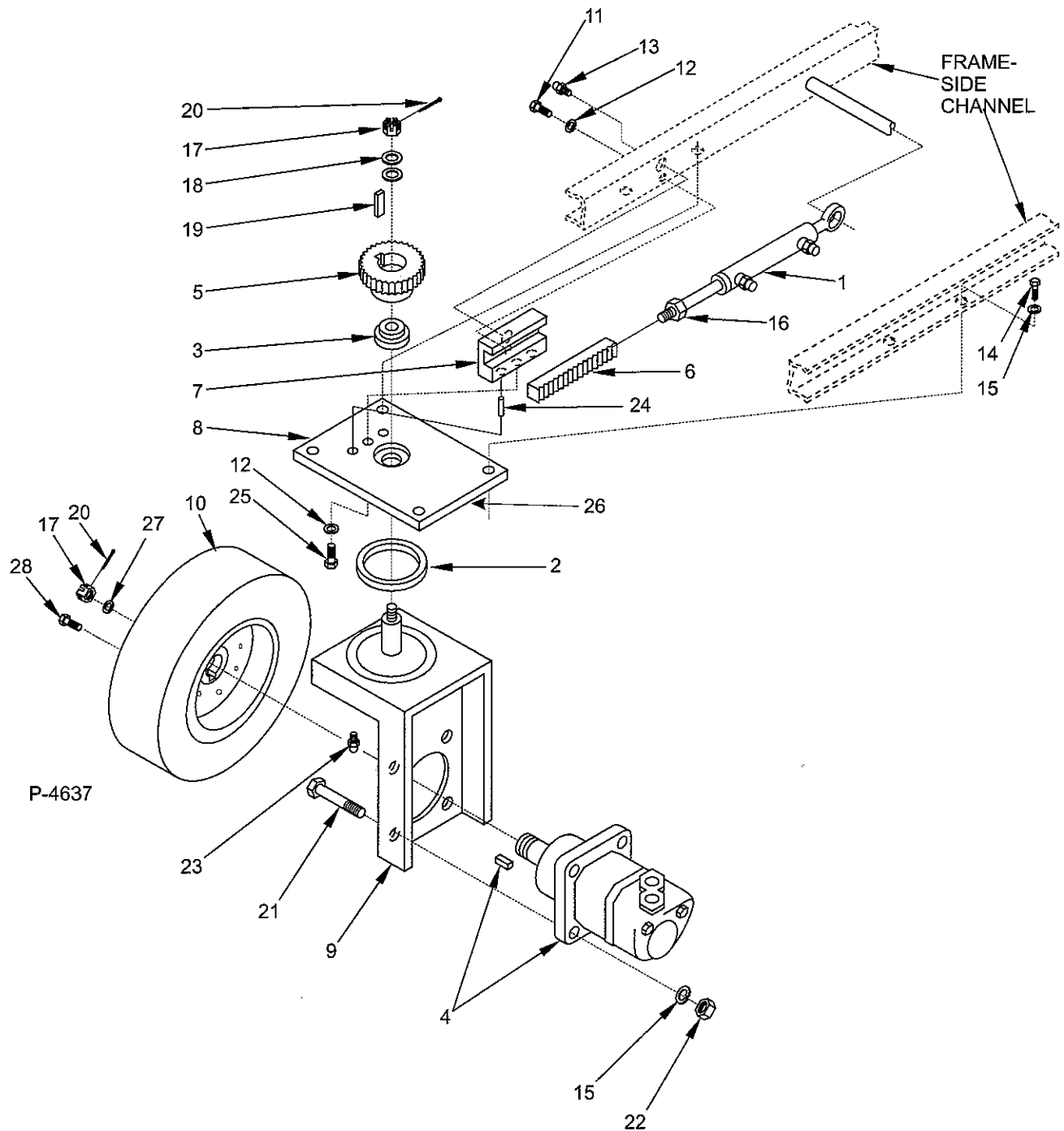


REAR WHEEL - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-17-05010	Power Steering Hydraulic Cylinder	1
2	2-00-04455	Thrust Bearing (TIMKEN -#T581)	1
3	2-00-04456	Cup Bearing (TIMKEN - #15245)	1
4	0885-051-1	Hydraulic Motor	1
5	7-29-05037	Spur Gear	1
6	7-62-00006	Rack	1
7	7-30-08012	Rack Guide	1
8	7-58-05229	Bearing Plate	1
9	7-81-00125	Rear Fork	1
10	7-89-08046	Wheel	1
11	2-00-00220	Screw, 1/4 - 20 x .625 HHC	1
12	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
13	2-00-00566	Lubrication Fitting, Straight 1/8 NPT	1
14	2-00-00240	Screw, 1/2 - 13 x 1.250 HHC	4
15	2-00-02312	Lock Washer, Helical Spring 1/2 Med	8
16	2-00-00591	Nut, Hex Jam 1/2 - 20 x .750 x .312	1
17	2-00-04841	Nut, Hex Slotted 3/4-16 x 1.125 x .641	1
18	8-75-01157	Flat Washer, 3/4 Series W	2
19	2-00-03761	Key, .250 x 1.750 SQ	1
20	2-00-00776	Cotter Pin, .125 x 1.500	2
21	2-00-00242	Screw, 1/2 - 13 x 2.250 HHC	4
22	2-00-00596	Nut, Hex 1/2 - 13 x .750 x .437	4
23	2-00-02568	Lubrication Fitting, 45° 1/8 NPT	1
24	2-00-01260	Dowel Pin, .250 x .625	2
25	2-00-03051	Screw, 1/4-20 x .750 SHCS	1
26	7-21-04031	Edging	1

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REAR WHEEL - EXPLODED VIEW

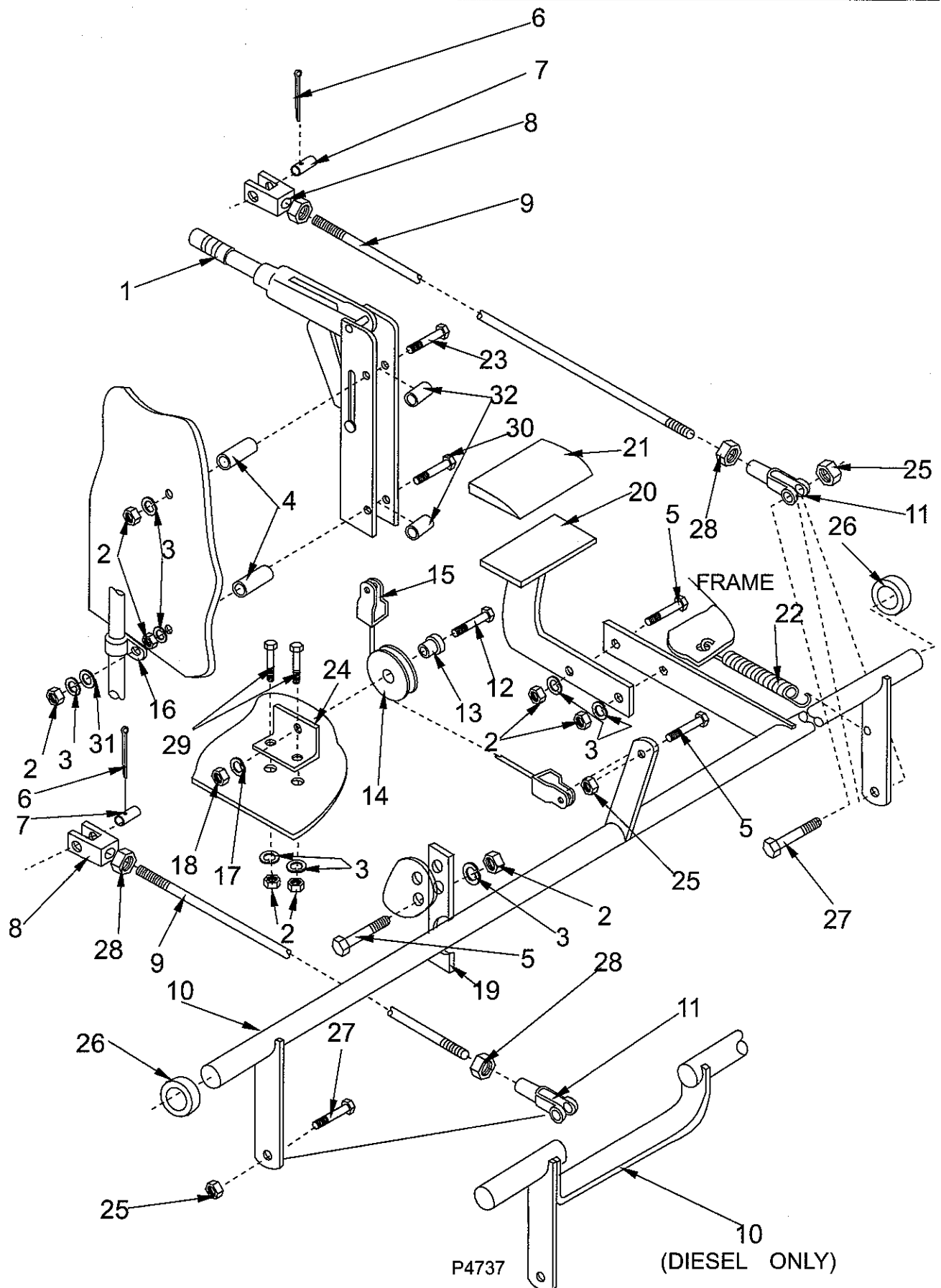


BRAKE LINKAGE - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-41-05083	Parking Brake Lever	1
2	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	9
3	2-00-00530	Lock Washer, Helical Spring 5/16 Med	9
4	7-75-01096	Lever Mounting Spacer	2
5	2-00-00206	Screw, 5/16 - 18 x 1.000 HHC	5
6	2-00-02428	Cotter Pin, .062 x .750	2
7	7-55-08122	Brake Clevis Pin	2
8	8-14-01007-1	Brake Pedal Clevis	2
9	7-66-00143	Brake Rod	2
10	7-70-05173	Cross Shaft	1
10	7-70-05145	Cross Shaft (Diesel Only)	1
11	8-14-01001	Clevis	2
12	2-00-00234	Screw, 3/8 - 16 x 1.500 HHC	1
13	8-09-01065	Bushing, Flanged .875 x .390 x .650	1
14	8-60-00140	Pulley	1
15	7-10-00019	Parking Brake Cable	1
16	2-00-04873	Cable Clamp, .500	1
17	2-00-02310	Lock Washer, Helical Spring 3/8 Med	1
18	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	1
19	7-08-00502	Brake Cross Shaft Bracket	1
20	7-55-00009	Brake Pedal	1
21	7-50-05145	Brake Pedal Pad	1
22	7-76-00102	Spring	1
23	2-00-01770	Screw, 5/16 - 18 x 2.750 HHC	1
24	7-08-00501	Brake Pulley Bracket	1
25	2-00-00644	Nut, Hex Fiber Insert 5/16 - 18	3
26	7-15-01014	Setscrew Collar, 1.625 x 1.000 x .750	2
27	2-00-00207	Screw, 5/16 - 18 x 1.250 HHC	2
28	2-00-02369	Nut, Hex Jam 3/8-16 x .562 x .218	2
29	2-00-00208	Screw, 5/16-18 x .750 HHC	2
30	2-00-02597	Screw, 5/16-18 x 3.250 HHC	1
31	2-00-00409	Flat Washer, .687 x .343 x .062	1
32	7-75-01126	Spacer, .500 x .327 x .780 Part of #1)	2

P4737/9510

BRAKE LINKAGE - EXPLODED VIEW

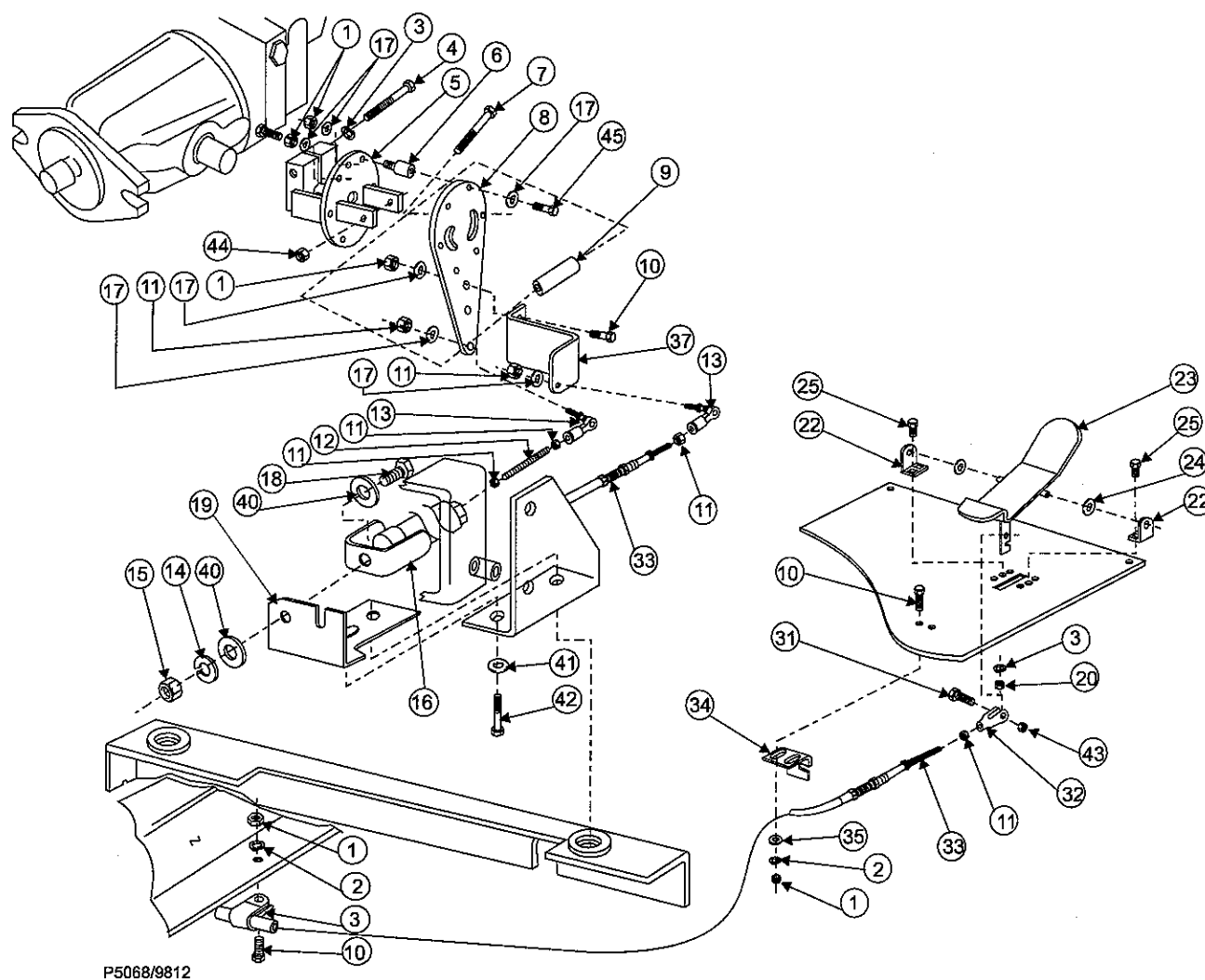


FORWARD/REVERSE CONTROL (FORD 425) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	13
2	2-00-00518	Lock Washer, Helical Spring 1/4 Med	5
3	2-00-00530	Lock Washer, Helical Spring 5/16 Med	3
4	2-00-00225	Screw, 5/16-18 x 1.500 HHC	1
5	7-03-04105	Transmission Arm	1
6	7-75-01089	Isolator	6
7	2-00-00246	Screw, 1/4-20 x 2.250 HHC	1
8	7-58-05220	Transmission Arm Plate	1
9	7-75-01110	Spacer	1
10	2-00-00221	Screw, 1/4-20 x .750 HHC	3
11	2-95-01999	Nut, Hex Jam 1/4-28 x .437 x .156	6
12	7-66-00147	Rod, 1/4-28 x 3.000	1
13	7-25-02050	Rod End, 1/4-28	2
14	2-00-02312	Lock Washer, Helical Spring 1/2 Med	1
15	2-00-02352	Nut, Hex 1/2-13 x .875 x .484	1
16	8-16-00025	Centering Control	1
17	2-00-00501	Lock Washer, 1/4 Int.	16
18	2-00-00240	Screw, 1/2-13 x 1.250 HHC	1
19	7-08-00537	Centering Control Bracket	1
20	2-00-00585	Nut, Hex 5/16-18 x .500 x.265	4
21	2-00-00491	Grommet	1
22	8-08-00327	Forward Reverse Pedal Bracket	2
23	7-55-00010	Forward Reverse Pedal	1
24	2-00-00402	Flat Washer, .750 x .390 x .093	2
25	2-00-03569	Carriage Bolt, 5/16 - 18 x .75	4
26			
27			
28	2-00-00244	Screw, 1/4-20 x 1.00 HHC	1
29			
30			
31	2-00-04563	Screw, #10-24 x .625 x .375 SH	1
32	8-14-01006	Clevis	1
33	7-16-00009	Forward / Reverse Cable	1
34	8-08-00506	Cable Mounting Bracket	1
35	2-00-00406	Flat Washer, .750 x .281 x .062	2
36	2-00-04602	Hose Clamp, .500	1
37	7-08-00536	Bracket	1
38	7-08-00538	Bracket	1
39	2-00-00209	Screw, 3/8-16 x 1.250 HHC	2
40	2-00-00405	Flat Washer, .750 x .281 x .062	2
41	2-00-02310	Lock Washer, Helical Spring 3/8 Med	2
42	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	2
43	2-00-01246	Nut, Hex Fiber Insert #10-24	1
44	2-00-00641	Nut, Hex Fiber Insert 1/4-20	1
45	2-00-00219	Screw, 1/4-20 x .500 HHC	6
46	2-00-04801	Flat Washer, .875 x .375 x .125	2
47	2-00-01490	Screw, 1/4-20 x .875 HHC	2

P5068/9511

FORWARD/REVERSE CONTROL (FORD 425) - EXPLODED VIEW

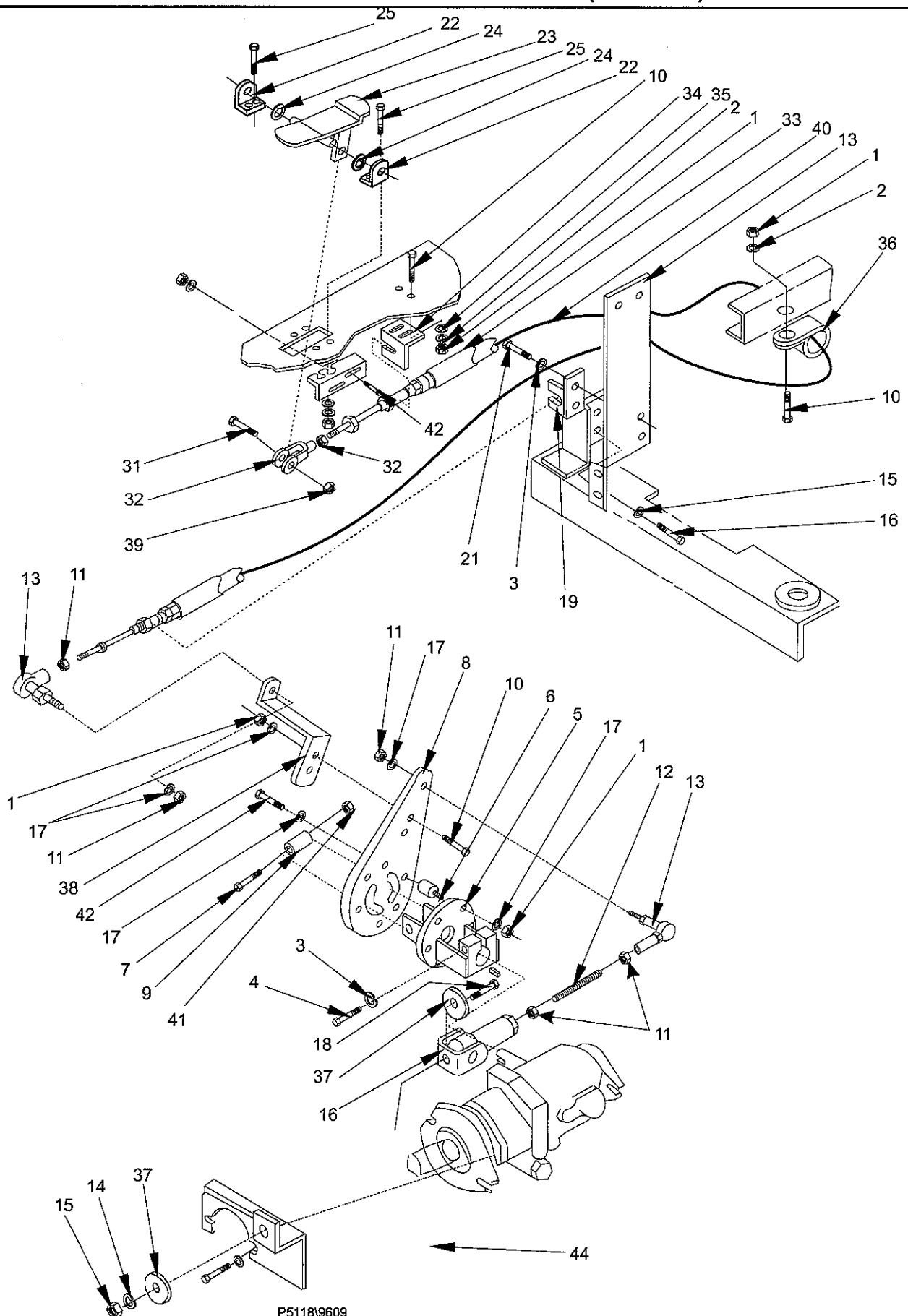


FORWARD/REVERSE CONTROL (PERKINS) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	11
2	2-00-00518	Lock Washer, Helical Spring 1/4 Med	3
3	2-00-00530	Lock Washer, Helical Spring 5/16 Med	5
4	2-00-00225	Screw, 5/16-18 x 1.500 HHC	1
5	7-03-04105	Transmission Arm	1
6	7-75-01089	Isolator, 1/4-20	6
7	2-00-00246	Screw, 1/4-20 x 2.250 HHC	1
8	7-58-05220	Transmission Arm Plate	1
9	7-75-01110	Spacer, Transmission Arm	1
10	2-00-00221	Screw, 1/4-20 x .750 HHC	5
11	2-95-01999	Nut, Hex Jam 1/4-28 x .437 x .156	6
12	7-66-00147	Rod, 1/4-28 x 3.000	1
13	7-25-02050	Rod End, 1/4-28	2
14	2-00-02312	Lock Washer, Helical Spring 1/2 Med	1
15	2-00-02352	Nut, Hex 1/2-13 x .875 x .484	1
16	8-16-00025	Centering Control	1
17	2-00-00501	Lock Washer, 1/4 Int.	16
18	2-00-00240	Screw, 1/2-13 x 1.250 HHC	1
19	7-08-00583	Centering Control Bracket	1
20	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	4
21	2-00-00208	Screw, 5/16-18 x .750 HHC	2
22	8-08-00327	Forward Reverse Pedal Bracket	2
23	7-55-00010	Forward Reverse Pedal	1
24	2-00-00402	Flat Washer, .750 x .390 x .093	2
25	2-00-03569	Carriage Bolt, 5/16 - 18 x .75	4
26			
27			
28			
29			
30			
31	2-00-04563	Screw, #10-24 x .625 x .375 SH	1
32	8-14-01006	Clevis	1
33	7-16-00009	Forward / Reverse Cable	1
34	8-08-00506	Cable Mounting Bracket	1
35	2-00-00406	Flat Washer, .750 x .281 x .062	2
36	2-00-04602	Hose Clamp, .500	1
37	2-00-00405	Flat Washer, .500	2
38	7-03-04106	Transmission Arm	1
39	2-00-01246	Nut, Hex Fiber Insert #10-24	1
40	7-34-09018	Insulating Sleeve	1
41	2-00-00641	Nut, Hex Fiber Insert 1/4-20	1
42	2-00-00219	Screw, 1/4-20 x .500 HHC	6
43	2-00-00491	Grommet	1
44	7-08-00585	Hydroback Bracket	1
45			

P5118

FORWARD/REVERSE CONTROL (PERKINS) - EXPLODED VIEW



P5118/9609

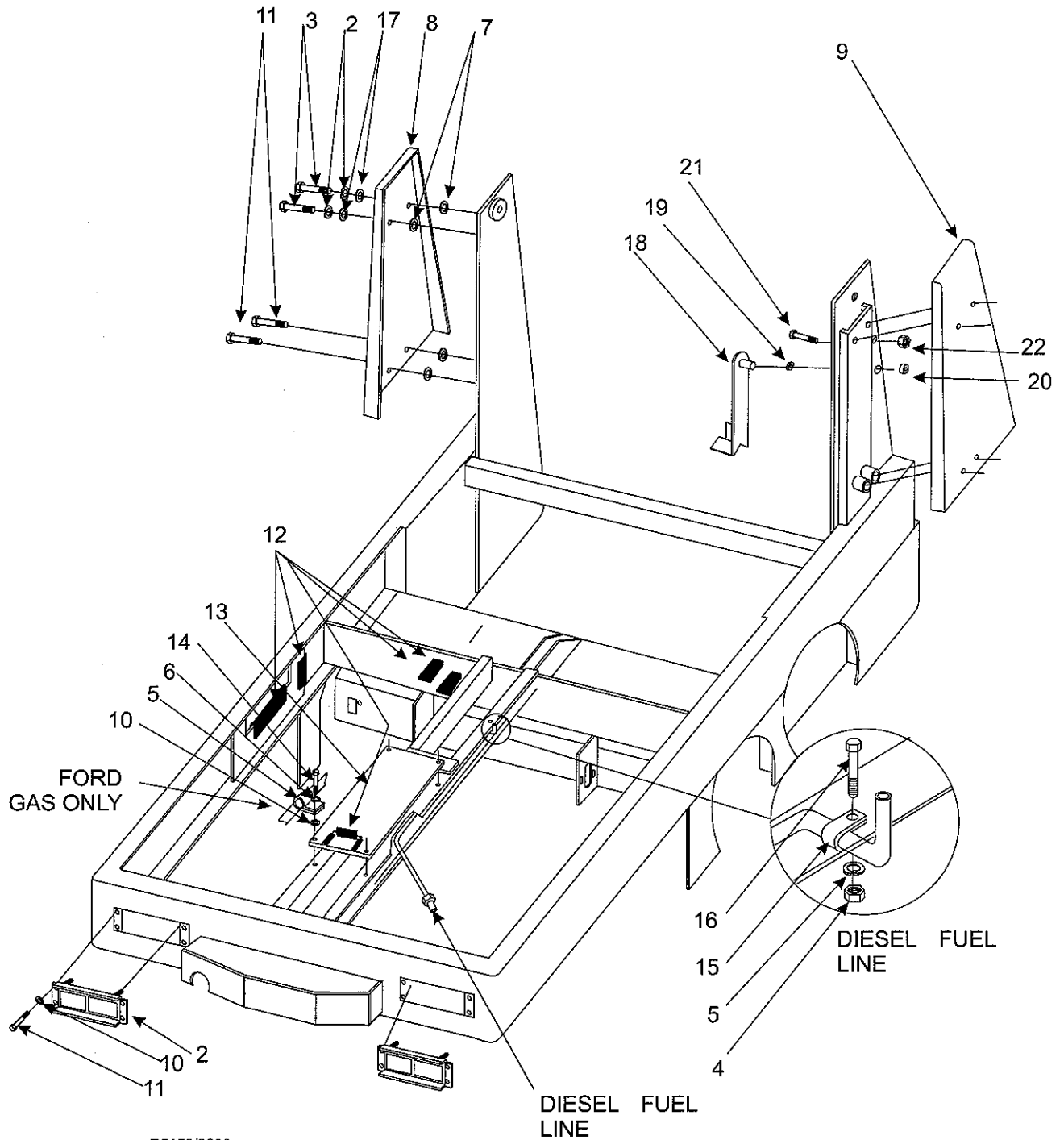
MAIN FRAME - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-27-07139	Main Frame	1
	7-27-07160	Main Frame - Manual Dump	1
2*	2-00-00530	Lock Washer, Helical Spring 5/16 Med	8
3*	2-00-00208	Screw, 5/16-18 x .750 HHC	4
4	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	2
5	2-00-00518	Lock Washer, Helical Spring 1/4 Med	5
6	2-00-04602	Hose Clamp, .500	1
7*	2-00-00409	Flat Washer, .687 x .343 x .062	8
8*	7-16-07313	Support Wing Cover	1
9*	7-16-07314	Support Wing Cover	1
10	2-00-00407	Flat Washer, .562 x .265 x .062	16
11*	2-00-00225	Screw, 5/16-18 x 1.500 HHC	4
12	7-21-04031	Edging	2
13	7-16-07304	Steering Gear Cover	1
14	2-00-00221	Screw, 1/4 - 20 x .750 HHC	4
15	2-00-04378	Clamp, .281	1
16	2-00-00221	Screw, 1/4 - 20 x .750 HHC	1

*Not used with manual dump hopper.

P4755

MAIN FRAME - EXPLODED VIEW



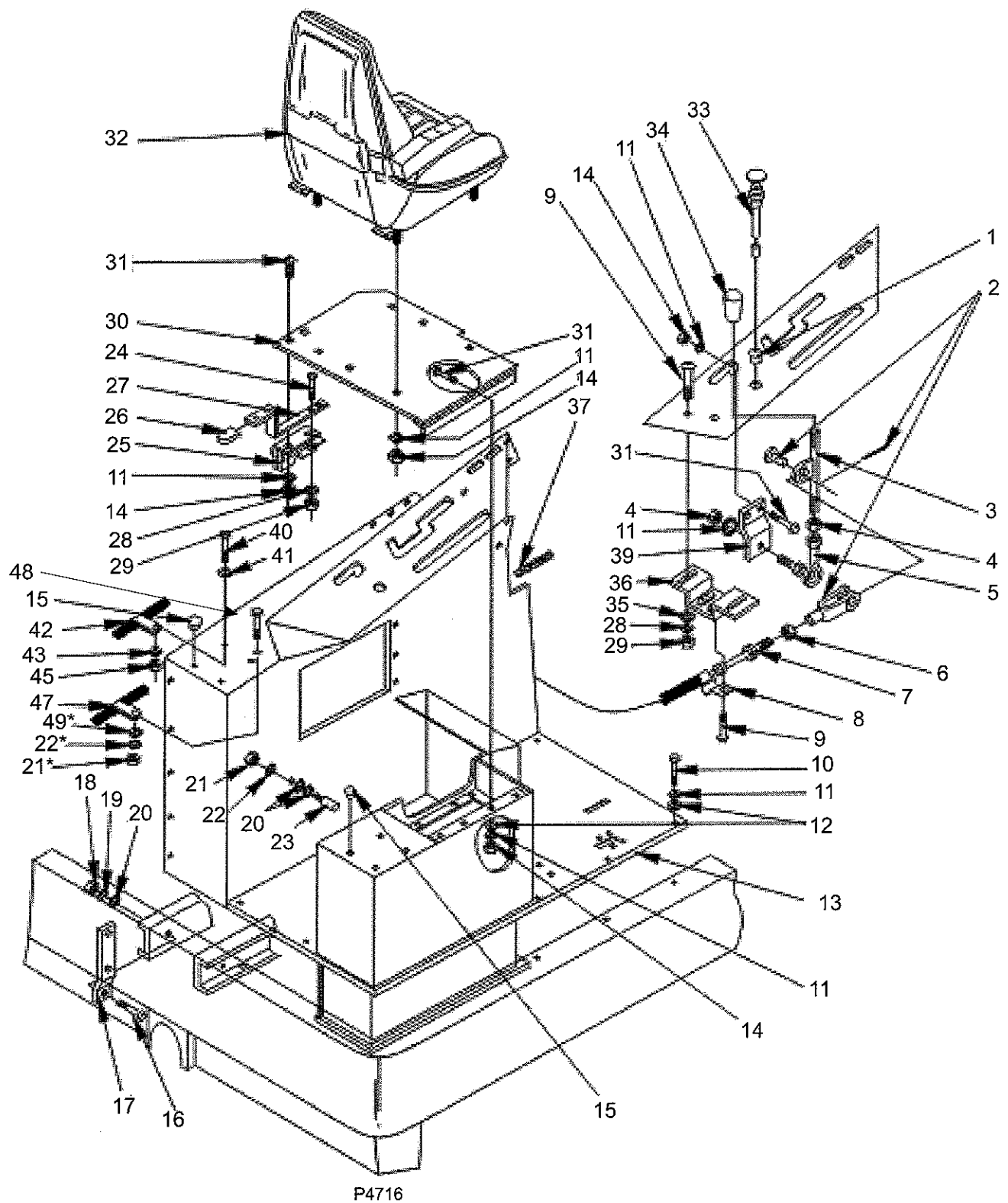
P5153/9606

DRIVER COMPARTMENT - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-02011	Plastic Plug, .440 Dia. (LP & Diesel Only)	1
2	7-14-07006	Clevis	1
3	7-41-05092	Throttle Handle	1
4	2-95-01999	Nut, Hex Jam 1/4-28 x .437 x .156	2
5	7-25-02050	Rod End, 1/4-28	1
6	2-00-00626	Nut, Hex MS #10-32 x .375 x .125	1
7	7-10-00024	Throttle Cable, (Diesel Only)	1
7	8-10-00033	Throttle Cable, (Gas Only)	1
8	8-13-07094	Clamp	1
9	2-00-03061	Screw, #10-24 x .500 THM	4
10	2-00-00205	Screw, 1/4-20 x 1.000 HHC	6
11	2-00-00518	Lock Washer, Helical Spring 1/4 Med	14
12	2-00-03702	Flat Washer, .625 x .281 x .062	10
13	7-70-08005	Driver Compartment Cover	1
14	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	8
15	2-00-04514	Plastic Plug, .562 Dia. (Diesel only)	7
15	2-00-04514	Plastic Plug, .562 Dia. (Gas/LP only)	8
16	2-00-00233	Screw, 3/8-16 x 1.000 HHC	1
17	7-08-00531	Drive Compartment Support Bracket	1
18	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	1
19	2-00-02310	Lock Washer, Helical Spring 3/8 Med	1
20	2-00-00402	Flat Washer, .750 x .390 x .062	3
21	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	1
22	2-00-00530	Lock Washer, Helical Spring 5/16 Med	1
23	7-55-08116	Striker Pin	1
24	2-00-04794	Screw, #10-24 x .625 BHS	2
25	8-41-00037	Rotary Latch	1
26	7-31-06061	Grip - Cover Latch	1
27	7-31-06062	Handle - Seat Cover Latch	1
28	2-00-00519	Lock Washer, Helical Spring #10 Med	6
29	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	4
30	7-16-07281	Cover - Weldment	1
31	2-00-00220	Screw, 1/4-20 x .625 HHC	5
32	7-69-00002	Seat	1
33	7-16-00016	Choke (Gas Only)	1
34	7-39-00017	Knob	1
35	2-00-00426	Flat Washer, .500 x .218 x .062	2
36	7-08-00590	Throttle Control Clamp	1
37	8-21-04019	Edging	1
38	2-00-00501	Lock Washer, 1/4 Int	1
39	7-08-00589	Throttle Control Bracket	1
40	2-00-00239	Screw, 1/2-13 x 1.000 HHC	1
41	2-00-00420	Flat Washer, 1.000 x .515 x .062	1
42	2-00-04441	Cable Clamp, .625	1
43	2-00-02312	Lock Washer, Helical Spring 1/2 Med	1
44			
45	2-00-00596	Nut, Hex 1/2-13 x .750 x .439 (Diesel Only)	1
46			
47	2-00-04873	Clamp	1
48	2-00-00196	Carriage Bolt, 5/16-18 x 1.000	1
49	2-00-00409	Flat Washer, .687 x .344 x .062	1

P4716

DRIVER COMPARTMENT - EXPLODED VIEW

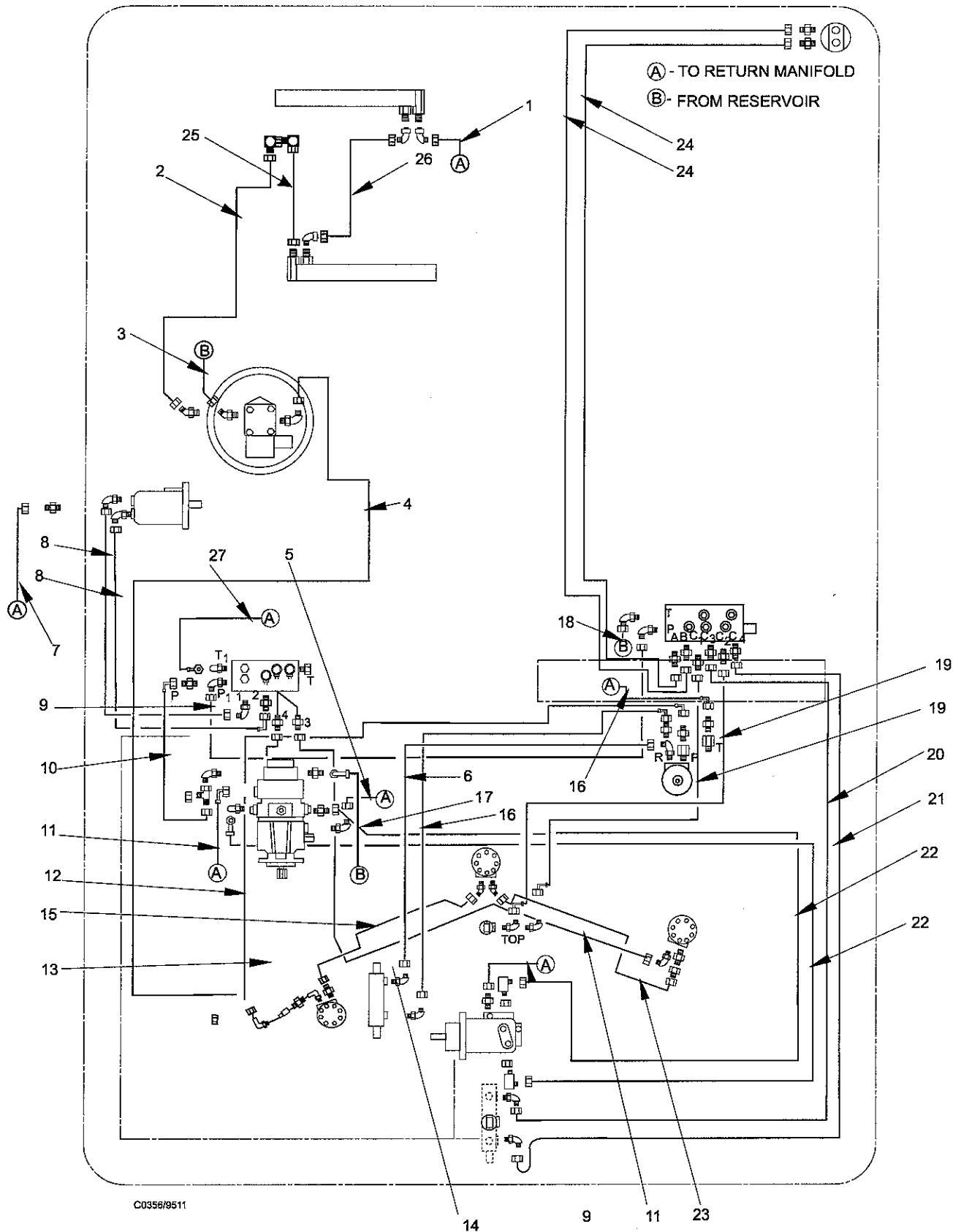


HYDRAULIC HOSE SYSTEM (MANUAL DUMP) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-33-02202	Hydraulic Hose ORS 8 Str. to JIC 8 Str. 69"	1
2	7-33-02201	Hydraulic Hose ORS 8-Str. to JIC Str. 20.5"	1
3	7-33-02224	Hydraulic Hose ORS 4-90° to Str. 155"	1
4	8-33-02192	Hydraulic Hose ORS 8-Str. to 8 Str. 80"	1
5	7-33-02186	Hydraulic Hose ORS 4-Str. Ends 30"	1
6	7-33-02180	Hydraulic Hose ORS 4-Str. Ends 37"	2
7	8-33-02200	Hydraulic Hose ORS 4-90° to Str. 55"	1
8	8-33-02214	Hydraulic Hose ORS 8-Str. Ends 29"	2
9	8-33-02184	Hydraulic Hose ORS 4-Str. Ends 50.5"	2
10	8-33-02202	Hydraulic Hose ORS 8-90° to Str. 20"	1
11	7-33-02197	Hydraulic Hose ORS 8-45° to Str. 52.5"	2
12	7-33-02190	Hydraulic Hose ORS 4-90° to Str. 67"	1
13	8-33-02201	Hydraulic Hose ORS 8-45° to Str. 18"	2
14	7-33-02220	Hydraulic Hose ORS 12-Str. Ends 42"	1
15	7-33-02206	Hydraulic Hose ORS 8-90° to Str. 14.25"	1
16	7-33-02191	Hydraulic Hose ORS 4-90° to Str. 42"	2
17	7-33-02221	Hydraulic Hose ORS 12-Str. Ends 48"	1
18	7-33-02225	Hydraulic Hose ORS 4-90° to Str. 38"	1
19	7-33-02189	Hydraulic Hose ORS 4-90° to Str. 26"	2
20	8-33-02183	Hydraulic Hose ORS 4-Str. Ends 49"	1
21	7-33-02185	Hydraulic Hose ORS 4-Str. Ends 56"	1
22	7-33-02223	Hydraulic Hose ORS 8-45° to Str. 87"	2
23	7-33-02205	Hydraulic Hose ORS 8-90° to Str. 16.25"	1
24	8-33-02216	Hydraulic Hose ORS 4-Str. Ends 88.0"	2
25	7-33-02244	Hydraulic Hose, 1.000 dia. x 33.000" long	1
26	7-33-02316	Hydraulic Hose, 8-Str. to JIC-8 Str. 69"	1

C0356/9511

HYDRAULIC HOSE SYSTEM (MANUAL DUMP) - EXPLODED VIEW



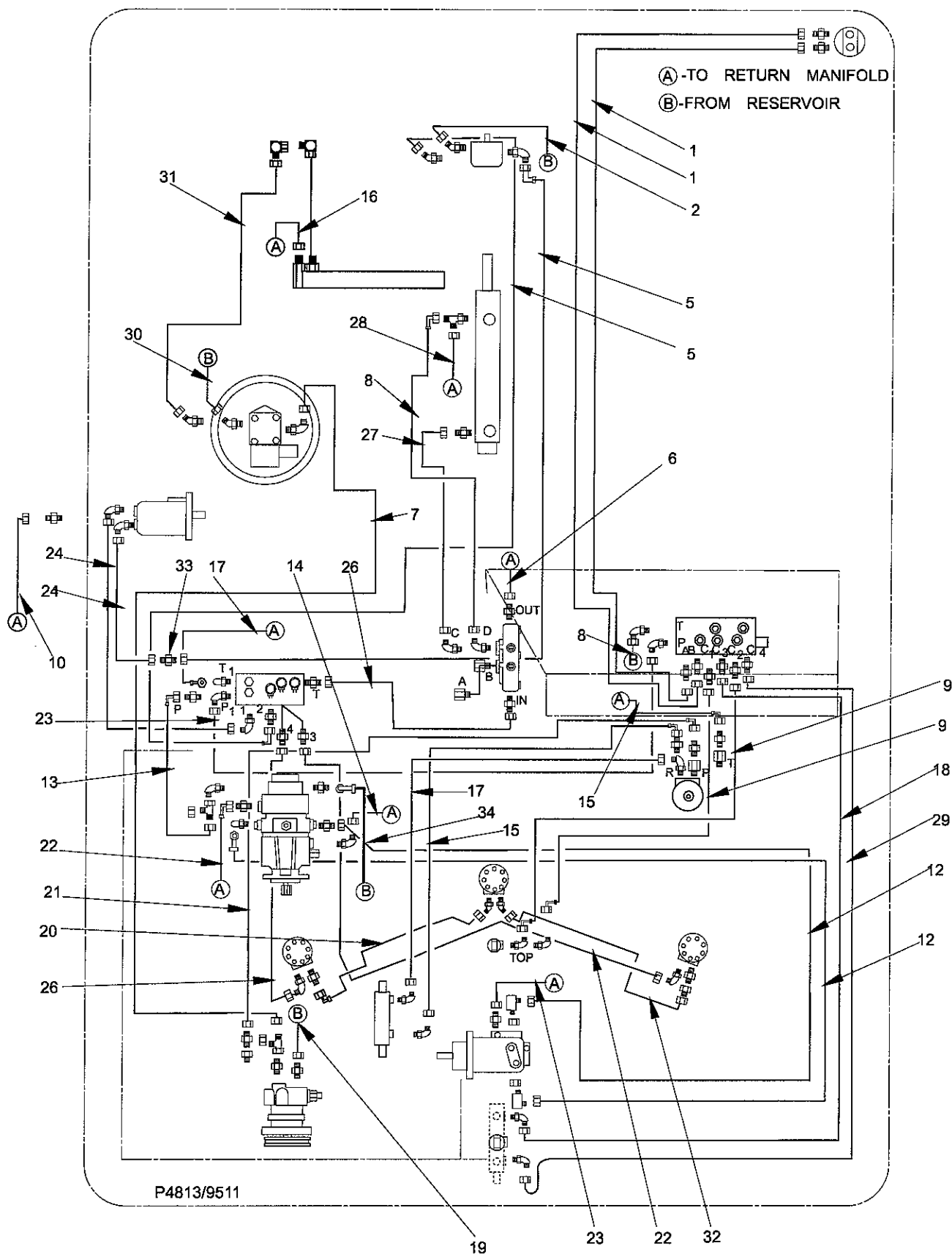
HYDRAULIC HOSE SYSTEM (LOW DUMP) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-33-02181	Hydraulic Hose ORS 4-Str. Ends 160"	2
2	8-33-02198	Hydraulic Hose ORS 4-90° to Str. 107"	1
3			
4			
5	7-33-02192	Hydraulic Hose ORS 8-90° to Str. 82"	2
6	7-33-02187	Hydraulic Hose ORS 8-Str. Ends 42"	1
7	8-33-02192	Hydraulic Hose ORS 8-Str. Ends 80"	1
8	7-33-02225	Hydraulic Hose ORS 4-90° to Str. 38"	2
9	7-33-02189	Hydraulic Hose ORS 4-90° to Str. 26"	2
10	8-33-02200	Hydraulic Hose ORS 4-90° to Str. 55"	1
11			
12	7-33-02223	Hydraulic Hose ORS 8-45° to Str. 87"	2
13	8-33-02202	Hydraulic Hose ORS 8-90° to Str. 20"	1
14	7-33-02186	Hydraulic Hose ORS 4-Str. Ends 30"	1
15	7-33-02191	Hydraulic Hose ORS 4-90° to Str. 42"	2
16	8-33-02245	Hydraulic Hose ORS 8 Str. to JIC 8 Str. 82"	1
17	7-33-02180	Hydraulic Hose ORS 4-Str. Ends 37"	2
18	8-33-02183	Hydraulic Hose ORS 4-Str. Ends 49"	1
19	7-33-02220	Hydraulic Hose ORS 12-Str. Ends 42"	1
20	7-33-02206	Hydraulic Hose ORS 8-90° to Str. 14.25"	1
21	7-33-02190	Hydraulic Hose ORS 4-90° to Str. 67"	1
22*	7-33-02187	Hydraulic Hose, 13/16-16-13/16-16.5 I.D. 42.00"	2
23	8-33-02184	Hydraulic Hose ORS 4-Str. Ends 50.5"	3
24	8-33-02214	Hydraulic Hose ORS 8-Str. Ends 29"	2
25			
26*	8-33-02190	Hydraulic Hose, 13/16-13/16-16.50 I.D. 21.00"	2
27	8-33-02178	Hydraulic Hose ORS 4-Str. Ends 15"	1
28	7-33-02193	Hydraulic Hose ORS 4-90° to Str. 49"	1
29	7-33-02185	Hydraulic Hose ORS 4-Str. Ends 56"	1
30	7-33-02224	Hydraulic Hose ORS 4-90° to Str. 155"	1
31	7-33-02201	Hydraulic Hose ORS 8-Str. to JIC Str. 20.5"	1
32	7-33-02205	Hydraulic Hose ORS 8-90° to Str. 16.25"	1
33	2-00-04987	ORFS Union, 13/16-16	1
34	7-33-02221	Hydraulic Hose ORS 12-Str. Ends 48"	1

*Used on Diesel Powered Machines Only

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HYDRAULIC HOSE SYSTEM (LOW DUMP) - EXPLODED VIEW



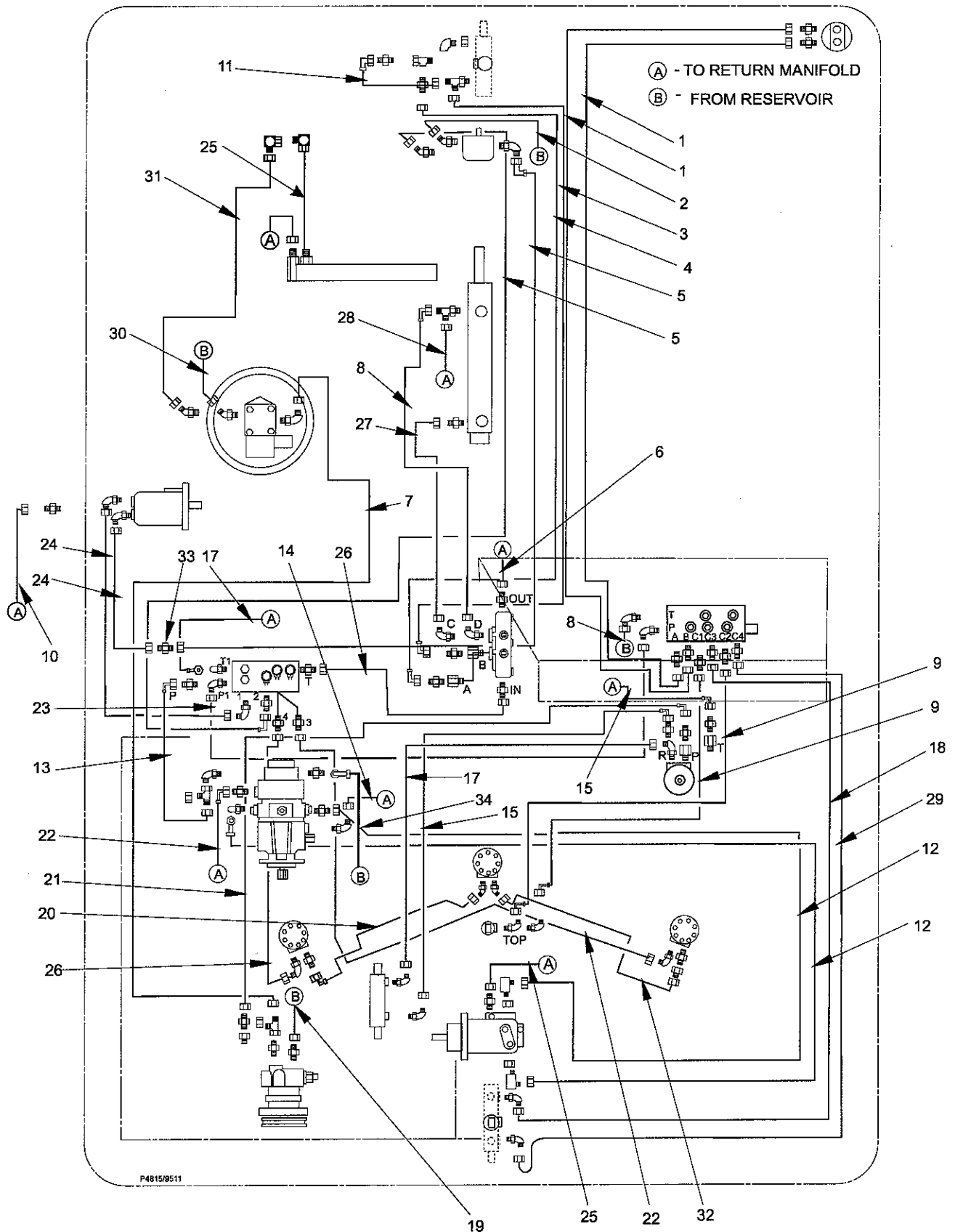
HYDRAULIC HOSE SYSTEM (VARIABLE DUMP) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-33-02181	Hydraulic Hose ORS 4-Str. Ends 160"	2
2	8-33-02198	Hydraulic Hose ORS 4-90° to Str. 107"	1
3	7-33-02194	Hydraulic Hose ORS 4-90° to Str. 80"	1
4	7-33-02195	Hydraulic Hose ORS 4-90° to Str. 87"	1
5	7-33-02192	Hydraulic Hose ORS 8-90° to Str. 82"	2
6	7-33-02187	Hydraulic Hose ORS 8-Str. Ends 42"	1
7	8-33-02192	Hydraulic Hose ORS 8-Str. Ends 80"	1
8	7-33-02225	Hydraulic Hose ORS 4-90° to Str. 38"	2
9	7-33-02189	Hydraulic Hose ORS 4-90° to Str. 26"	2
10	8-33-02200	Hydraulic Hose ORS 4-90° to Str. 55"	1
11	8-33-02174	Hydraulic Hose ORS 4-90° to Str. 16.5	1
12	7-33-02223	Hydraulic Hose ORS 8-45° to Str. 87"	2
13	8-33-02202	Hydraulic Hose ORS 8-90° to Str. 20"	1
14	7-33-02186	Hydraulic Hose ORS 4-Str. Ends 30"	1
15	7-33-02191	Hydraulic Hose ORS 4-90° to Str. 42"	2
16	8-33-02245	Hydraulic Hose ORS 8 Str. to JIC 8 Str. 82"	1
17	7-33-02180	Hydraulic Hose ORS 4-Str. Ends 37"	2
18	8-33-02183	Hydraulic Hose ORS 4-Str. Ends 49"	1
19	7-33-02220	Hydraulic Hose ORS 12-Str. Ends 42"	1
20	7-33-02206	Hydraulic Hose ORS 8-90° to Str. 14.25"	1
21	7-33-02190	Hydraulic Hose ORS 4-90° to Str. 67"	1
22*	7-33-02187	Hydraulic Hose, 13/16-16-13/16-16.5 I.D. 42.00"	2
23	8-33-02184	Hydraulic Hose ORS 4-Str. Ends 50.5"	3
24	8-33-02214	Hydraulic Hose ORS 8-Str. Ends 29"	2
25			
26*	8-33-02190	Hydraulic Hose, 13/16-13/16-16.50 I.D. 21.00"	2
27	8-33-02178	Hydraulic Hose ORS 4-Str. Ends 15"	1
28	7-33-02193	Hydraulic Hose ORS 4-90° to Str. 49"	1
29	7-33-02185	Hydraulic Hose ORS 4-Str. Ends 56"	1
30	7-33-02224	Hydraulic Hose ORS 4-90° to Str. 155"	1
31	7-33-02201	Hydraulic Hose ORS 8-Str. to JIC Str. 20.5"	1
32	7-33-02205	Hydraulic Hose ORS 8-90° to Str. 16.25"	1
33	2-00-04987	ORFS Union, 13/16-16	1
34	7-33-02221	Hydraulic Hose ORS 12-Str. Ends 48"	1

*Used on Diesel Powered Machines Only

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HYDRAULIC HOSE SYSTEM (VARIABLE DUMP) - EXPLODED VIEW



SUCTION & RETURN HOSES (MANUAL DUMP) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-33-02202	Hydraulic Hose ORS 8 Str. to JIC 8 Str. 69"	1
2	N/A		
3	7-33-02224	Hydraulic Hose ORS 4-90° to Str. 155"	1
4	N/A		
5	7-33-02186	Hydraulic Hose ORS 4-Str. Ends 30"	1
6	7-33-02180	Hydraulic Hose ORS 4-Str. Ends 37"	1
7	8-33-02200	Hydraulic Hose ORS 4-90° to Str. 55"	1
8	N/A		
9	8-33-02184	Hydraulic Hose ORS 4-Str. Ends 50.5"	1
10	N/A		
11	7-33-02197	Hydraulic Hose ORS 8-45° to Str. 52.5"	1
12	N/A		
13	N/A		
14	7-33-02220	Hydraulic Hose ORS 12-Str. Ends 42"	1
15	N/A		
16	7-33-02191	Hydraulic Hose ORS 4-90° to Str. 42"	1
17	7-33-02221	Hydraulic Hose ORS 12-Str. Ends 48"	1
18	7-33-02225	Hydraulic Hose ORS 4-90° to Str. 38"	1
19	N/A		
20	N/A		
21	N/A		
22	N/A		
23	N/A		
24	N/A		
25	7-33-02244	Hydraulic Hose, 1.000 dia. x 33.000" long	1

C0359

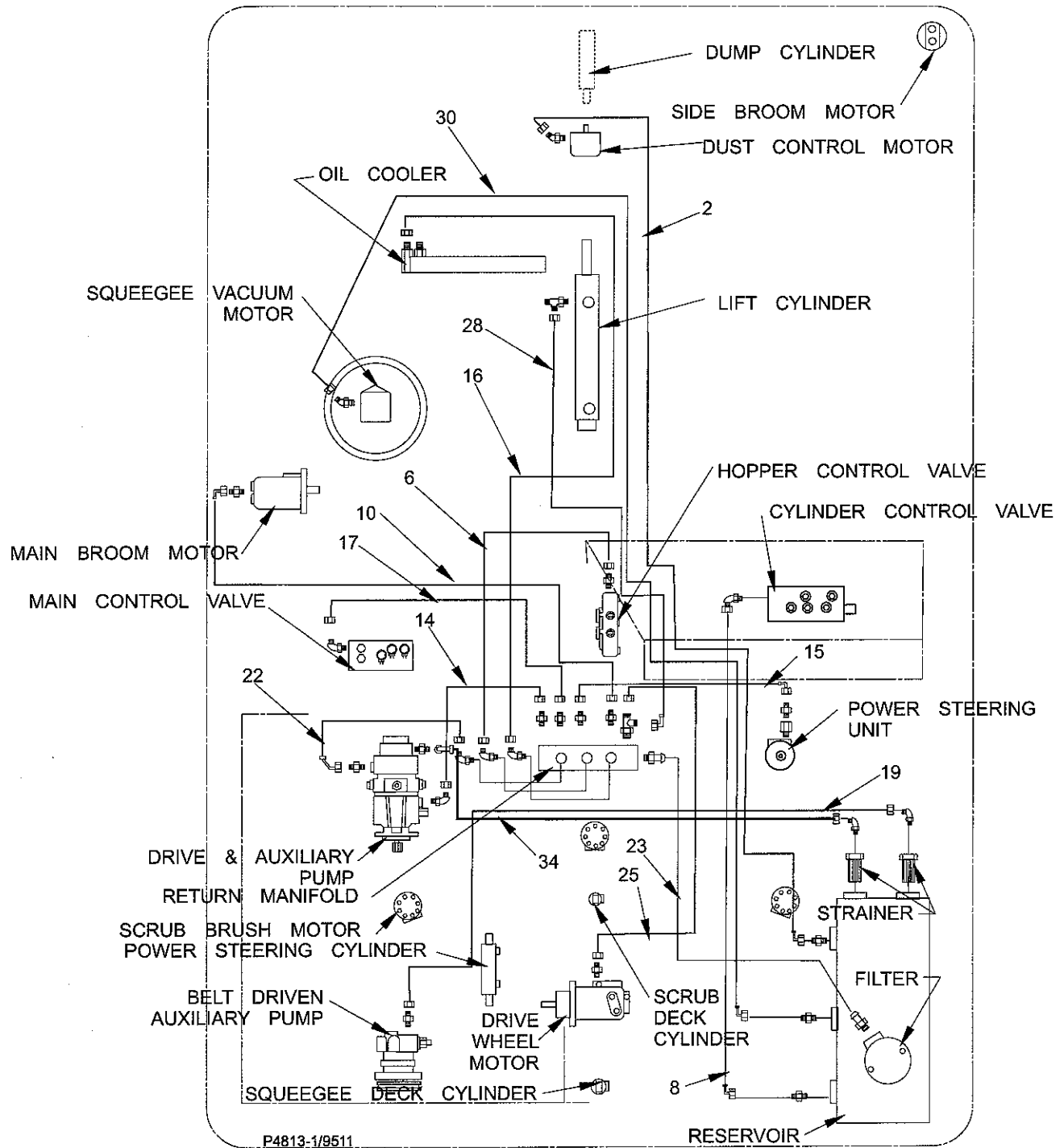
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SUCTION & RETURN HOSES (LOW DUMP) - PARTS LIST

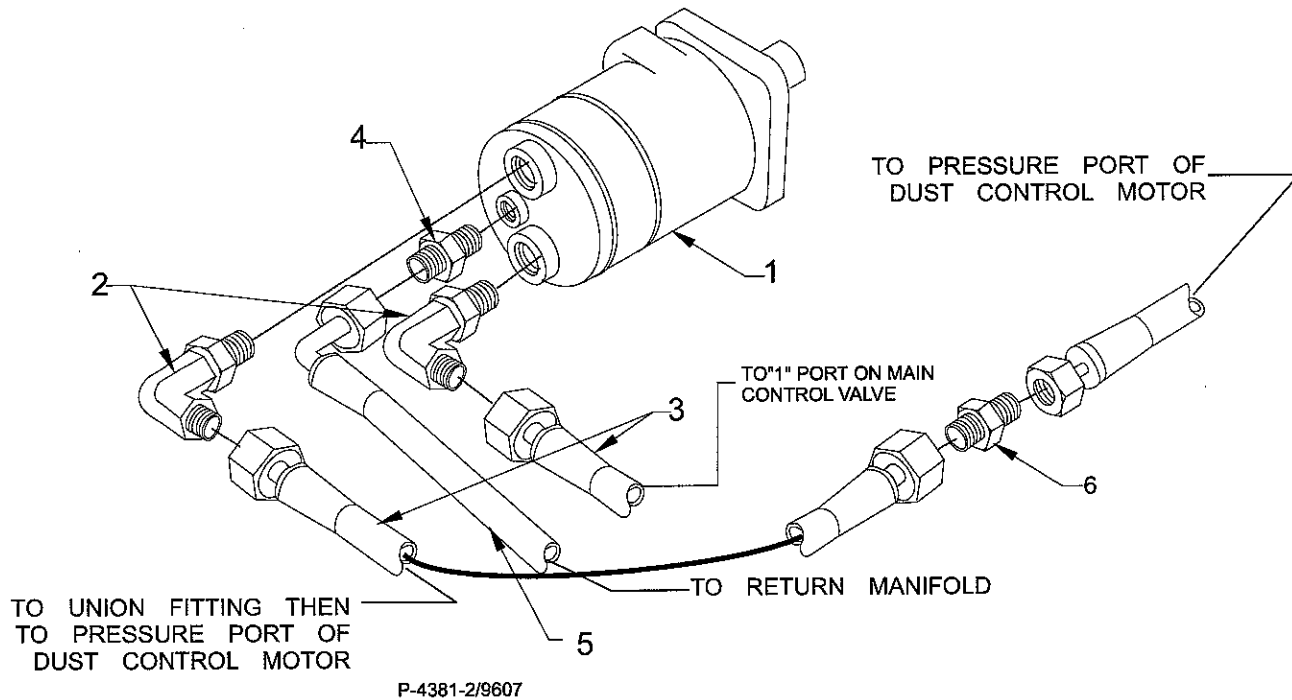
<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1			
2	8-33-02198	Hydraulic Hose ORS 4-90° to Str. 107"	1
3			
4			
5			
6	7-33-02187	Hydraulic Hose ORS 8-Str. Ends 29"	3
7			
8	7-33-02225	Hydraulic Hose ORS 4-90° to Str. 38"	2
9			
10	8-33-02200	Hydraulic Hose ORS 4-90° to Str. 55"	1
11			
12			
13			
14	7-33-02186	Hydraulic Hose ORS 4-Str. Ends 30"	1
15	7-33-02191	Hydraulic Hose ORS 4-90° to Str. 42"	2
16	8-33-02245	Hydraulic Hose ORS 8 Str. to JIC 8 Str. 82"	1
17	7-33-02180	Hydraulic Hose ORS 4-Str. Ends 37"	2
18			
19	7-33-02220	Hydraulic Hose ORS 12-Str. Ends 42"	1
20			
21			
22	7-33-02197	Hydraulic Hose ORS 8-45° to Str. 52.5"	2
23	8-33-02184	Hydraulic Hose ORS 4-Str. Ends 50.5"	3
24			
25	7-33-02244	Raw Ends 1" I.D. Hydraulic Hose	1
26			
27			
28	7-33-02193	Hydraulic Hose ORS 4-90° to Str. 49"	1
29			
30	7-33-02224	Hydraulic Hose ORS 4-90° to Str. 155"	1
31			
32			
33			
34	7-33-02221	Hydraulic Hose ORS 12-Str. Ends 48"	1

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SUCTION & RETURN HOSES (LOW DUMP) - EXPLODED VIEW



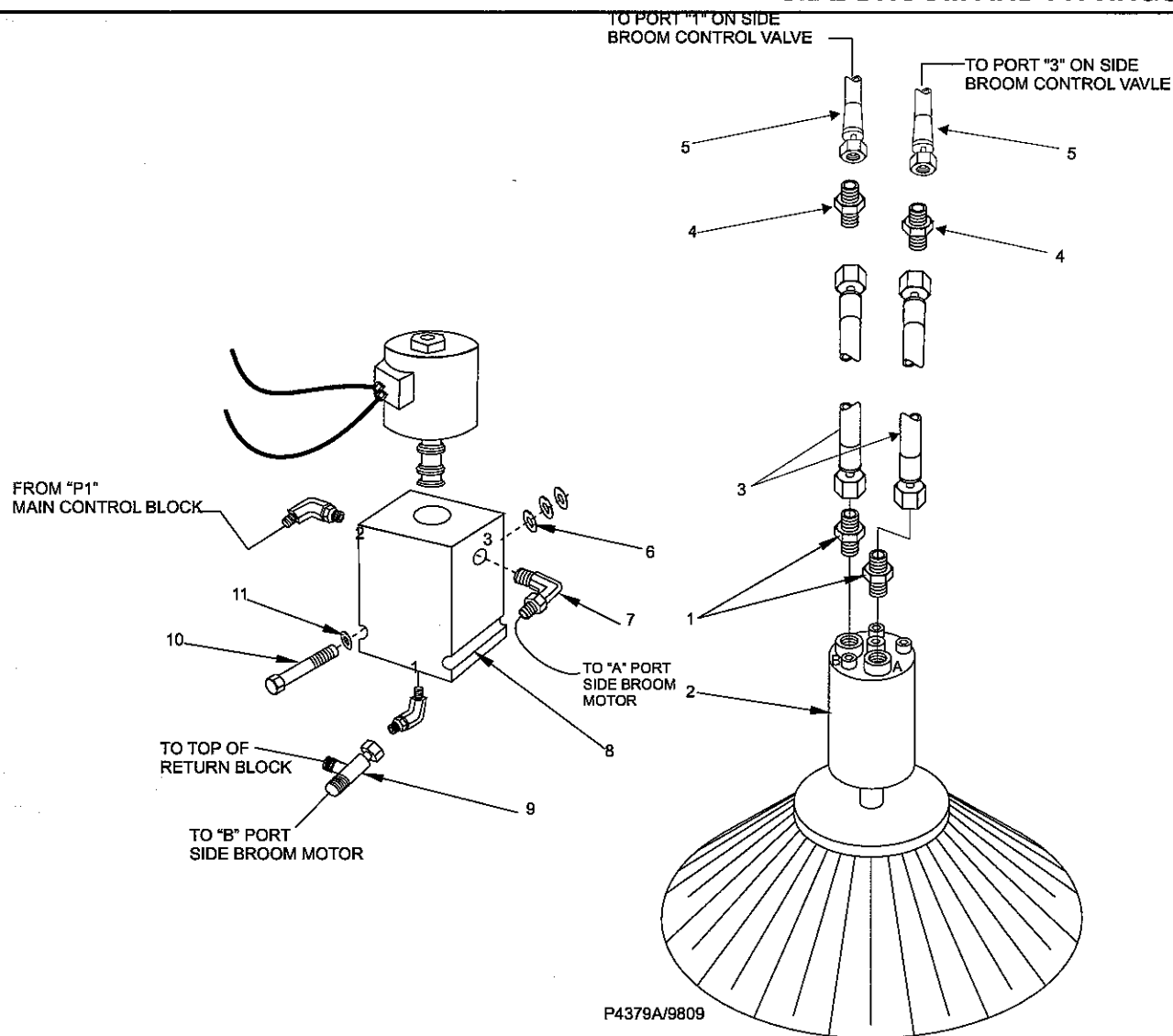
MAIN BROOM AND FITTINGS



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	0882-040	Main Broom Motor	1
2	2-00-04885	ORFS 90° Elbow, 3/4-16 to 13/16-16	2
3	8-33-02214	Hose	Ref.
4	2-00-04895	ORFS Connector, 7/16-20 to 9/16-18	1
5	8-33-02200	Hose	Ref.
6	2-00-04987	ORFS Union, 13/16 - 16	Ref.

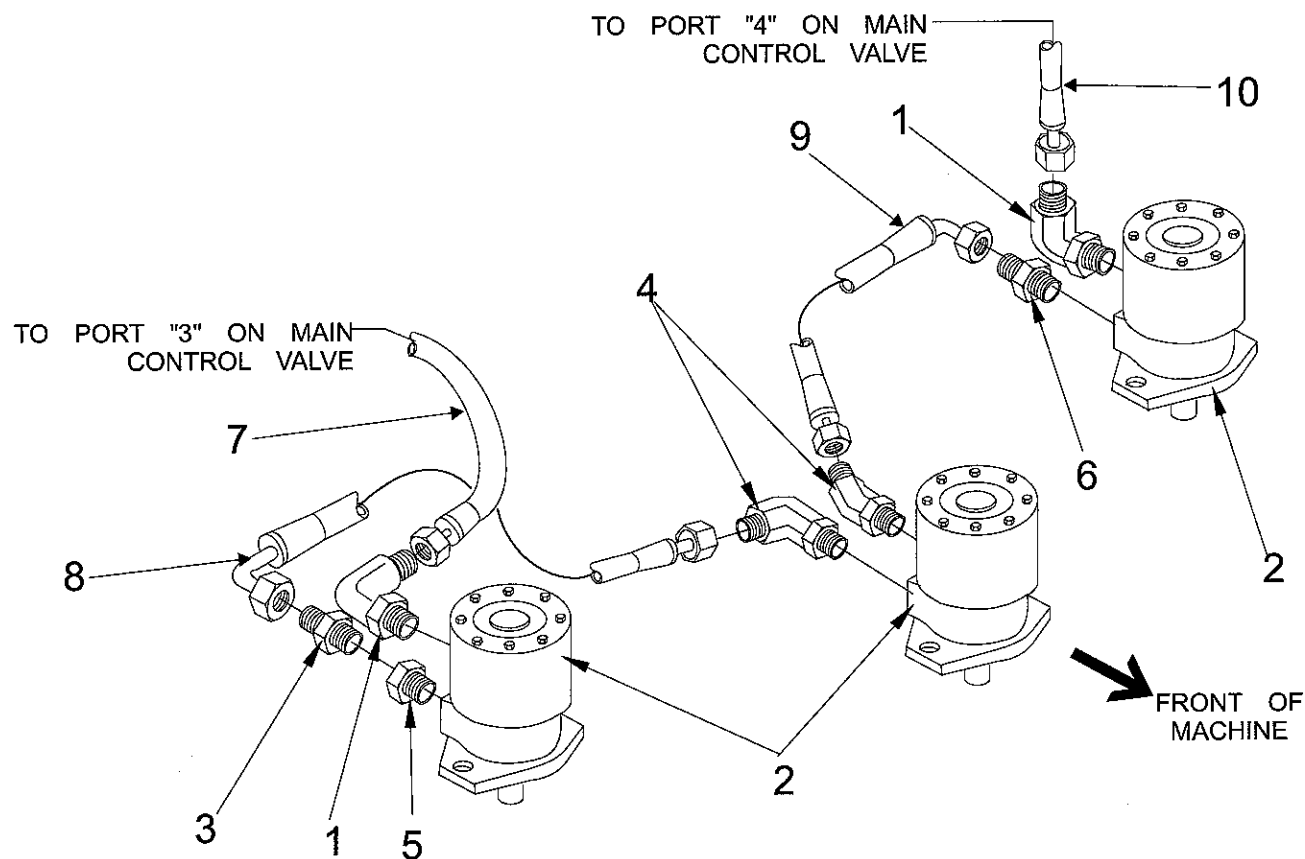
P4381

SIDE BROOM AND FITTINGS



P4379

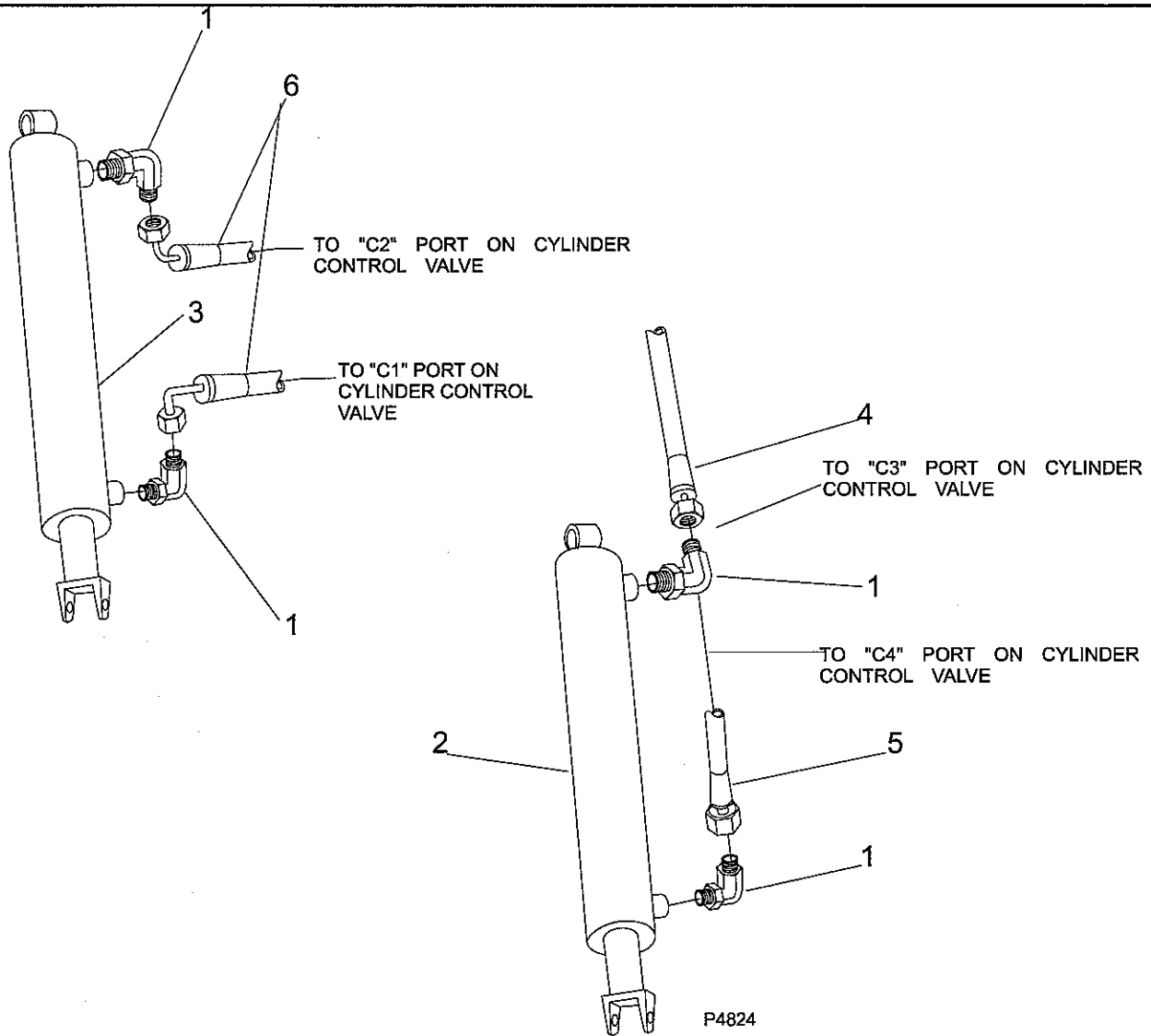
SCRUB MOTORS & FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04921	ORFS 90 Elbow, 7/16-20 to 9/16-18	2
2	0782-111 0780-143	Scrub Motor (Hydraulic) Seal Kit	3 -
3	2-00-04970	ORFS Connector, 3/4-16 to 13/16-16	1
4	2-00-04989	ORFS 45° Elbow, 7/8-14 TO 13/16-16	2
5	2-00-04990	ORFS Reducer Bushing, 7/8-14 to 3/4-16	1
6	2-00-04974	ORFS Connector, 7/8-14 to 13/16-16	1
7	7-33-02187	Hose	Ref.
8	7-33-02205	Hose	Ref.
9	7-33-02206	Hose	Ref.
10	8-33-02190	Hose	Ref.

P3810a/9511

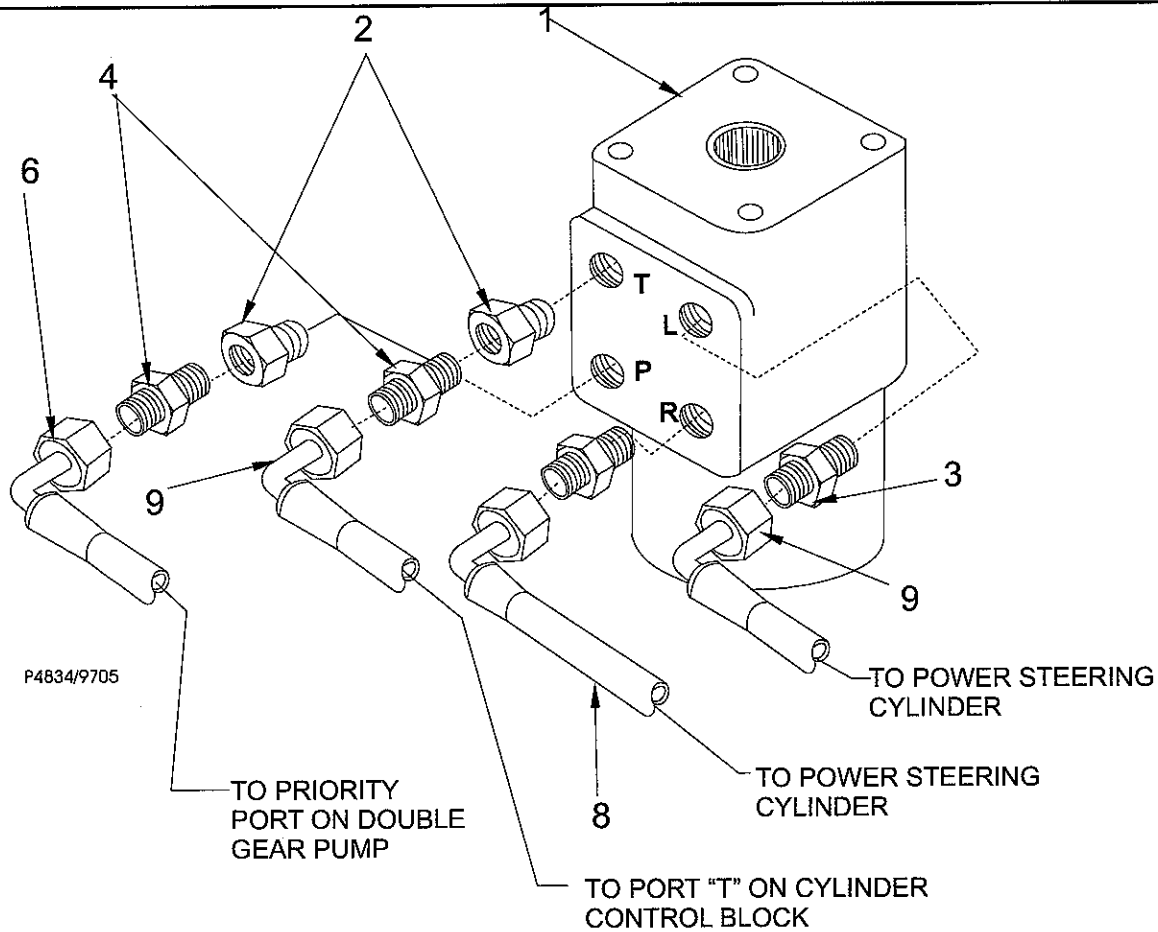
SQUEEGEE, SCRUB DECK CYLINDERS & FITTINGS



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-04892	ORFS 90° Elbow, 7/16-20 to 9/16-18	4
2	7-17-05011	Hydraulic Cylinder	2
3	2-00-00205	Screw, 1/4-20 x 1.000 HHC	1
4	2-00-04603	Hose Clamp, .500	1
5	2-00-00518	Lock Washer, 1/4 Split	1
6	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	1
7	8-33-0218	Hose	Ref.
8	8-33-02185	Hose	Ref.
9	7-33-02189	Hose	Ref.

P4824/951

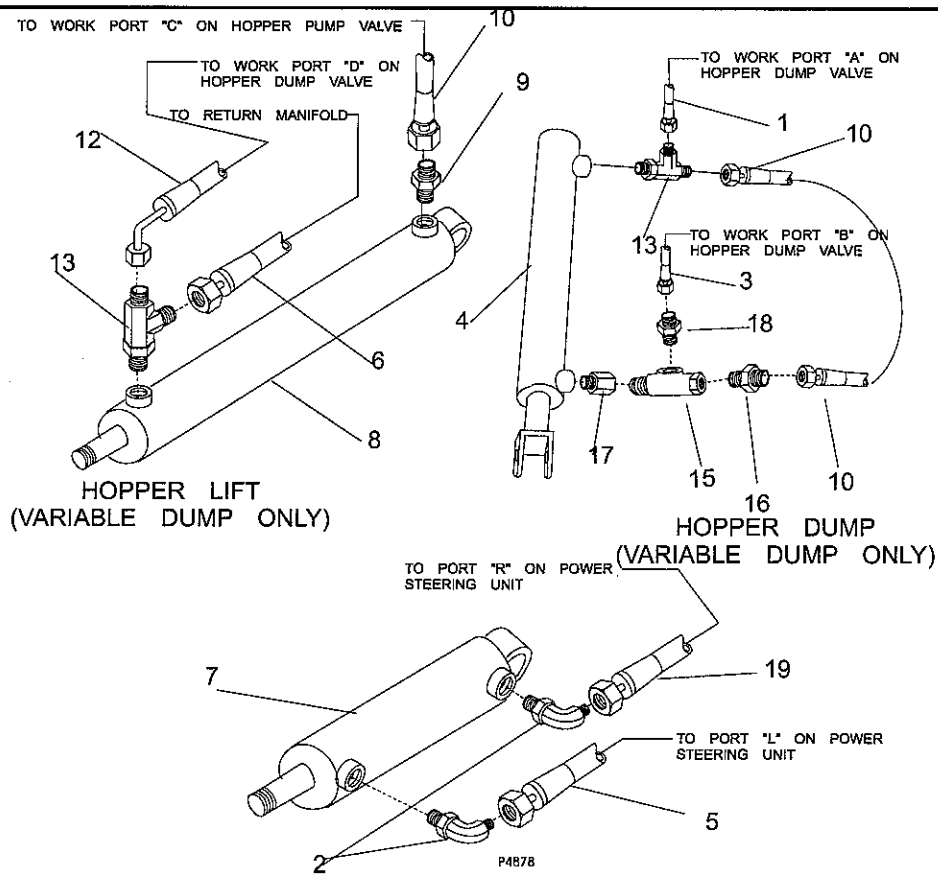
POWER STEERING UNIT AND FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-60-05016	Power Steering Unit	1
2	2-00-04917	ORFS Boss Reducer, 9/16-18 to 7/16-20	2
3	2-00-04895	ORFS Connector, 7/16-20 to 9/16-18	2
4	2-00-04918	ORFS Connector, 9/16-18	1
5	2-00-04926	ORFS 90° Elbow, 9/16-18	1
6	7-33-02190	Hose	Ref.
7			
8	7-33-02180	Hose	Ref.
9	7-33-02191	Hose	Ref.

P4834/9511

POWER STEERING, HOPPER DUMP & HOPPER LIFT CYL'S. & FITTINGS

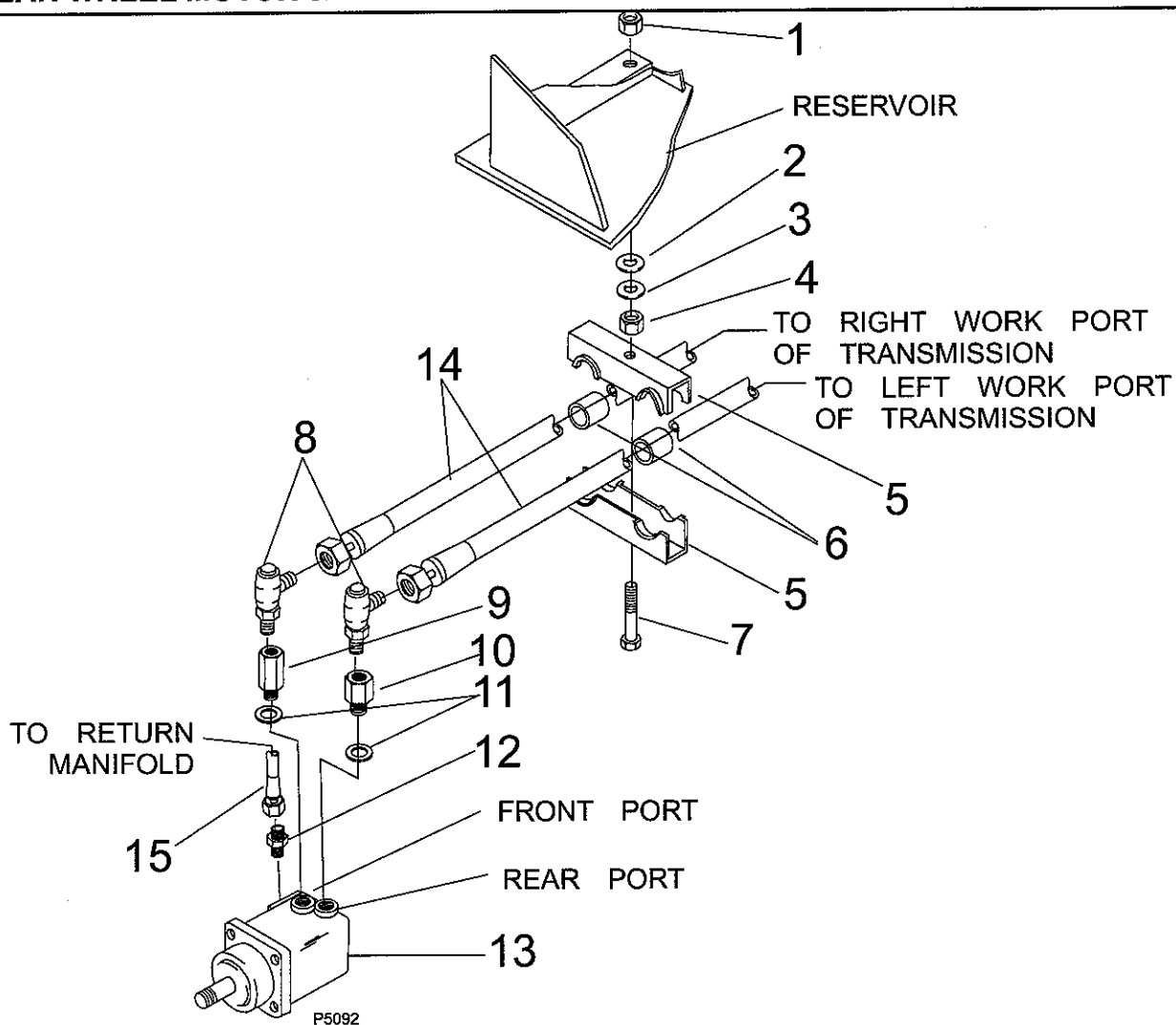


POWER STEERING

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-17-05012	Lift Cylinder	1
NS	0880-506	Lift Cylinder Seal Kit	1
2	7-17-05011	Dump Cylinder	1
3	7-17-05010	Steering Cylinder	1
NS	7-70-00021	Dump and Steering Cylinders Seal Kit	2
4	2-00-04895	ORFS Connector, 7/16-20 to 9/16-18	1
5	2-00-04927	Run Tee Fitting	2
6	2-00-05054	Adapter Fitting	1
7	2-00-04994	Adapter Fitting	1
8	2-00-04589	Street Elbow, 90° 3/8-19 M-F	1
9	8-88-00045	Fitting, Check Valve	1
10	2-00-04997	Fitting Adapter, 9/16-18 ORFS - 1/4-18 NPT	1
11	2-00-04892	ORFS 90° Elbow, 7/16-20 to 9/16-18	2
12	7-33-02225	Hose	Ref.
13	8-33-02178	Hose	Ref.
14	8-33-02174	Hose	Ref.
15	7-33-02194	Hose	Ref.
16	7-33-02180	Hose	Ref.
17	7-33-02191	Hose	Ref.
18	7-33-02193	Hose	Ref.
19	7-33-02195	Hose	Ref.

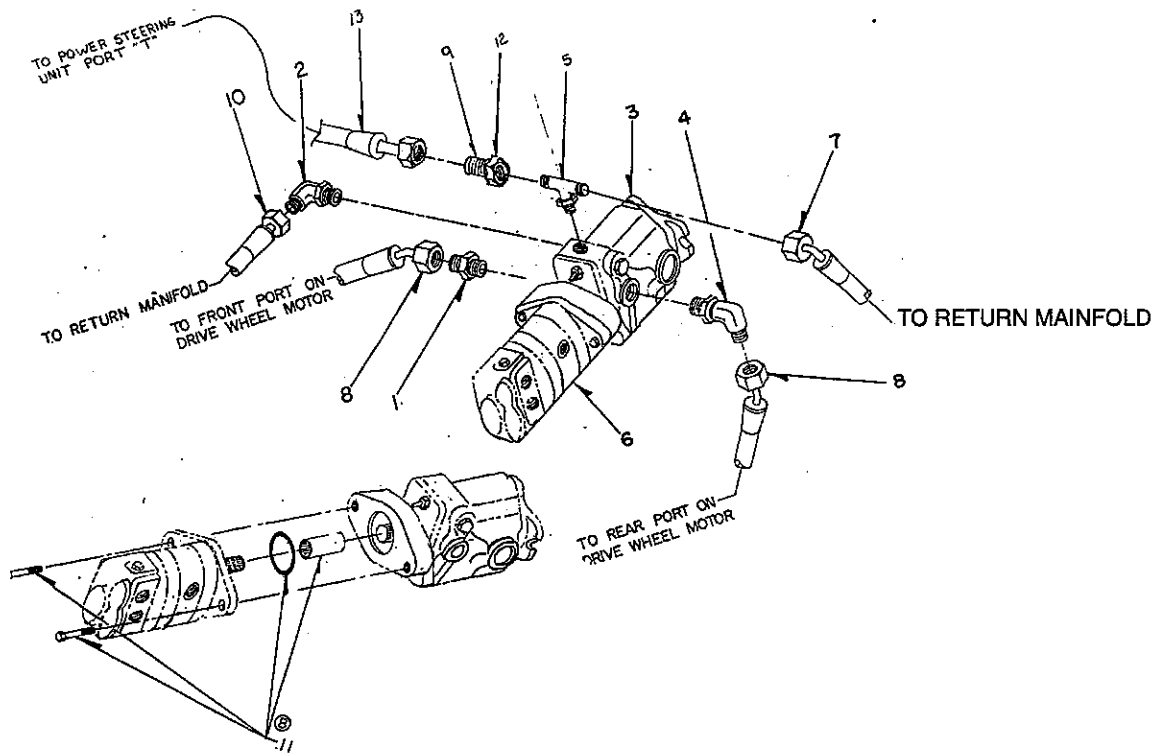
P4878

REAR WHEEL MOTOR & FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00644	Nut, Fiber Lock 5/16 - 18 THD's	1
2	7-23-03048	Spring Washer, .750 x .312 x .013	1
3	2-00-00409	Flat Washer, For 5/16 Bolt (.687 x .343 x .062)	1
4	2-00-00586	Nut, Hex Jam 5/16-18 x .500 x .187	1
5	7-13-07110	Hose Clamping Unit	1
6	7-09-01121	Split Hose Bushing	2
7	2-00-01770	Screw, 5/16-18 x 2.750 HHC	1
8	2-00-05358	Fitting	2
9	2-00-02035	Fitting	1
10	8-03-02036	Fitting	1
11	2-00-04620	Seal	2
12	2-00-04895	Fitting	1
13	0885-051-1	Rear Wheel Motor	1
14	7-33-02223	Hose	2
15	8-33-02184	Hose	Ref.

P5092/9511



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04926	ORFS 90° Elbow, 9/16-18	1
2	2-00-04979	ORFS Connector, 1 1/16-12 to 13/16-16	1
3*	8-60-05006-2	Drive Pump (Piston)	1
4	2-00-04922	ORFS 90° Elbow, 1 1/16-12 to 13/16-16	1
5	2-00-04970	ORFS Connector, 3/4-16 to 13/16-16	1
6*	0885-067	Auxiliary Pump (Gear)	1
7	0880-404	Pump Assembly Kit	1
8	7-33-02197	Hose	Ref.
9	7-33-02223	Hose	Ref.
10	7-33-02186	Hose	Ref.

* Piston Gear Pump Assembly #0885-063

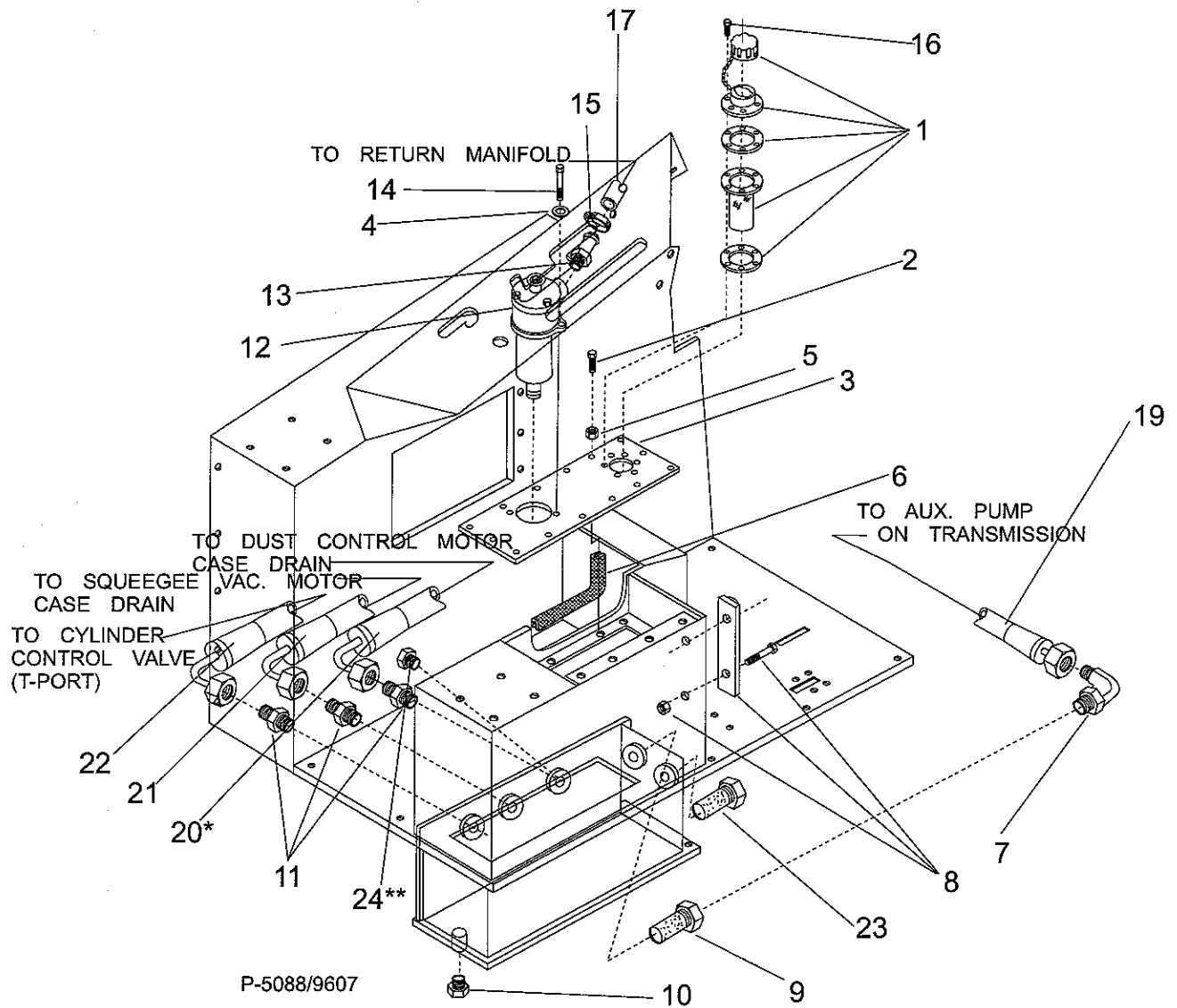
P5070/9511

HYDRAULIC RESERVOIR, FILTER & FITTINGS - PARTS LIST

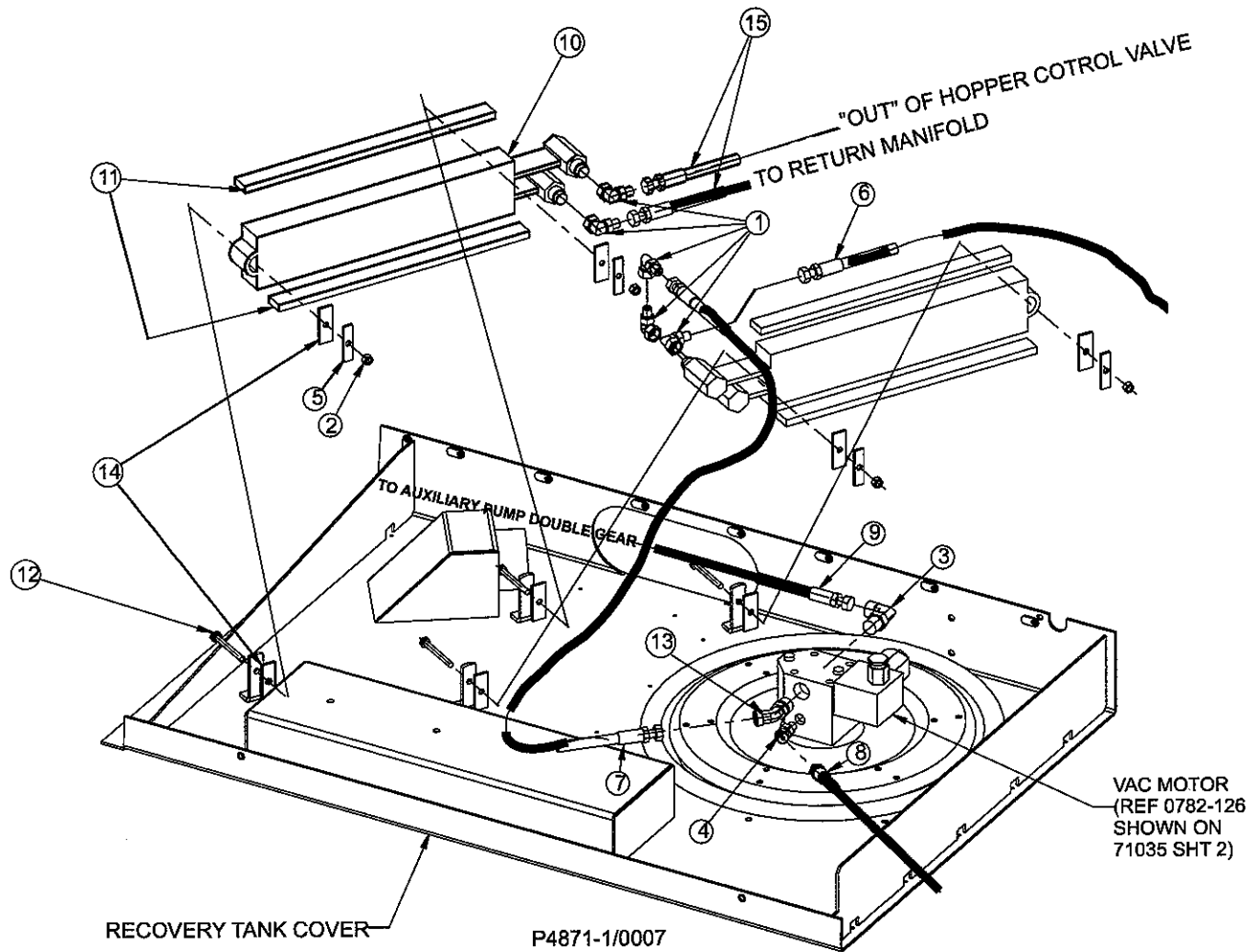
<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-11-00026	Reservoir Filter Cap	1
2	2-00-00049	Screw, #10-24 x .500 RHM	14
3	7-16-07282	Hydraulic Reservoir Cover	1
4	2-00-00530	Lock Washer, Helical Spring 5/16 Med	2
5	2-00-03940	Screw, #10-24 x .500 TC/HH	6
6	7-21-03003	Edging	1
7	2-00-05074	ORFS 90° Elbow, 1 3/16-12 to 3/4-14 NPT	2
8	8-48-05034	Fluid Level Sight Gauge	1
9	8-24-04115	Strainer	2
10	2-00-02474	Pipe Plug, 1/2 NPT	1
11	2-00-04895	ORFS Connector, 7/16-20 to 9/16-18	3
12	7-24-04031	Return Filter Assembly	1
NS	7-24-04032	Return Filter Replacement Filter	1
13	2-00-05073	Straight Barbed Stem, 1-11 1/2 to 1.375 x 2.87	1
14	2-00-02708	Screw, 5/16-18 x 1.000 HHC	1
15	2-00-02220	Hose Clamp, .812 - 1.500	1
16	2-00-05177	Plug, 7/16-20 Str. Thd O-Ring (Manual Dump Only)	1
17	7-33-02244	Hose	1
18	7-33-02220	Hose	1
19	7-33-02221	Hose	1
20	8-33-02198	Hose	1
21	7-33-02224	Hose	1
22	7-33-02225	Hose	1

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HYDRAULIC RESERVOIR, FILTER & FITTINGS - EXPLODED VIEW



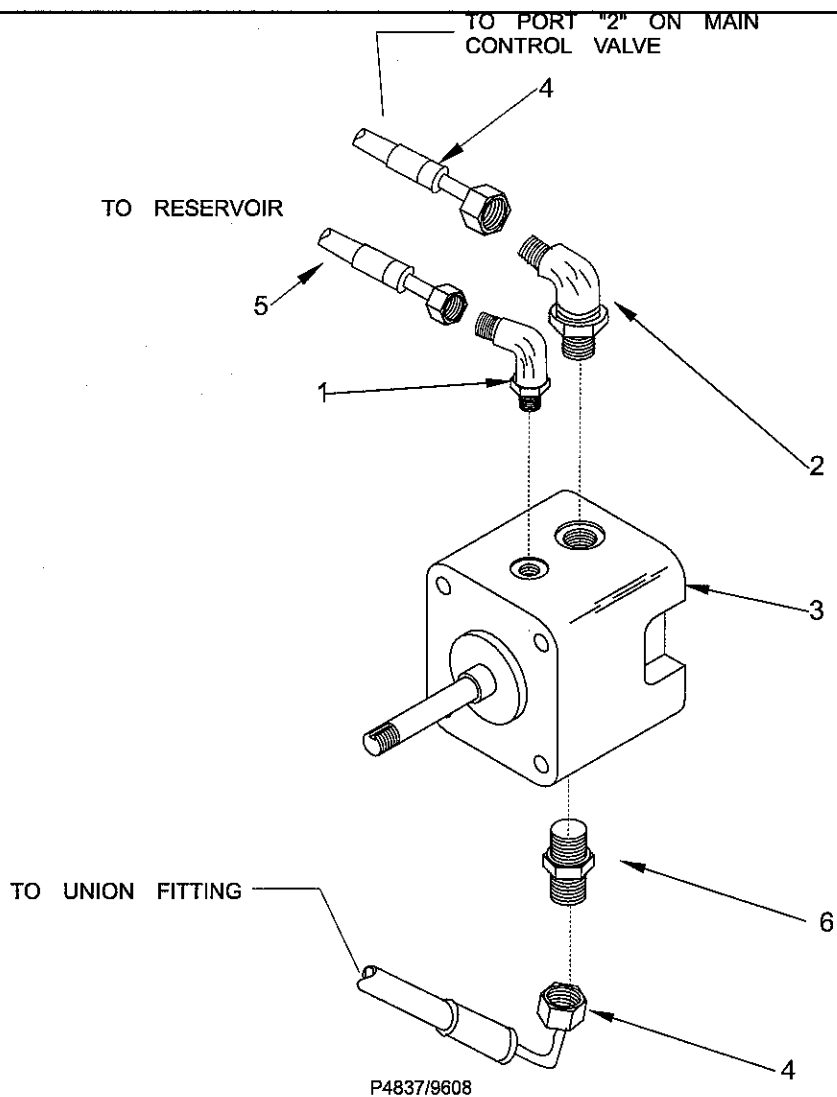
VACUUM MOTOR & FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04885	ORFS 90° Elbow, 3/4-16 to 3/16-16	1
2	0782-118	Hydraulic Motor	1
	7-14-07007	Coil for 0782-118 Hydraulic Motor	1
	7-12-02019	Cartridge for 0782-118 Hydraulic Motor	1
3	2-00-04975	ORFS 45° Elbow, 3/4-16 to 13/16-16	1
4	2-00-04976	ORFS 45° Elbow, 7/16-20 to 9/16-18	1

P4871a

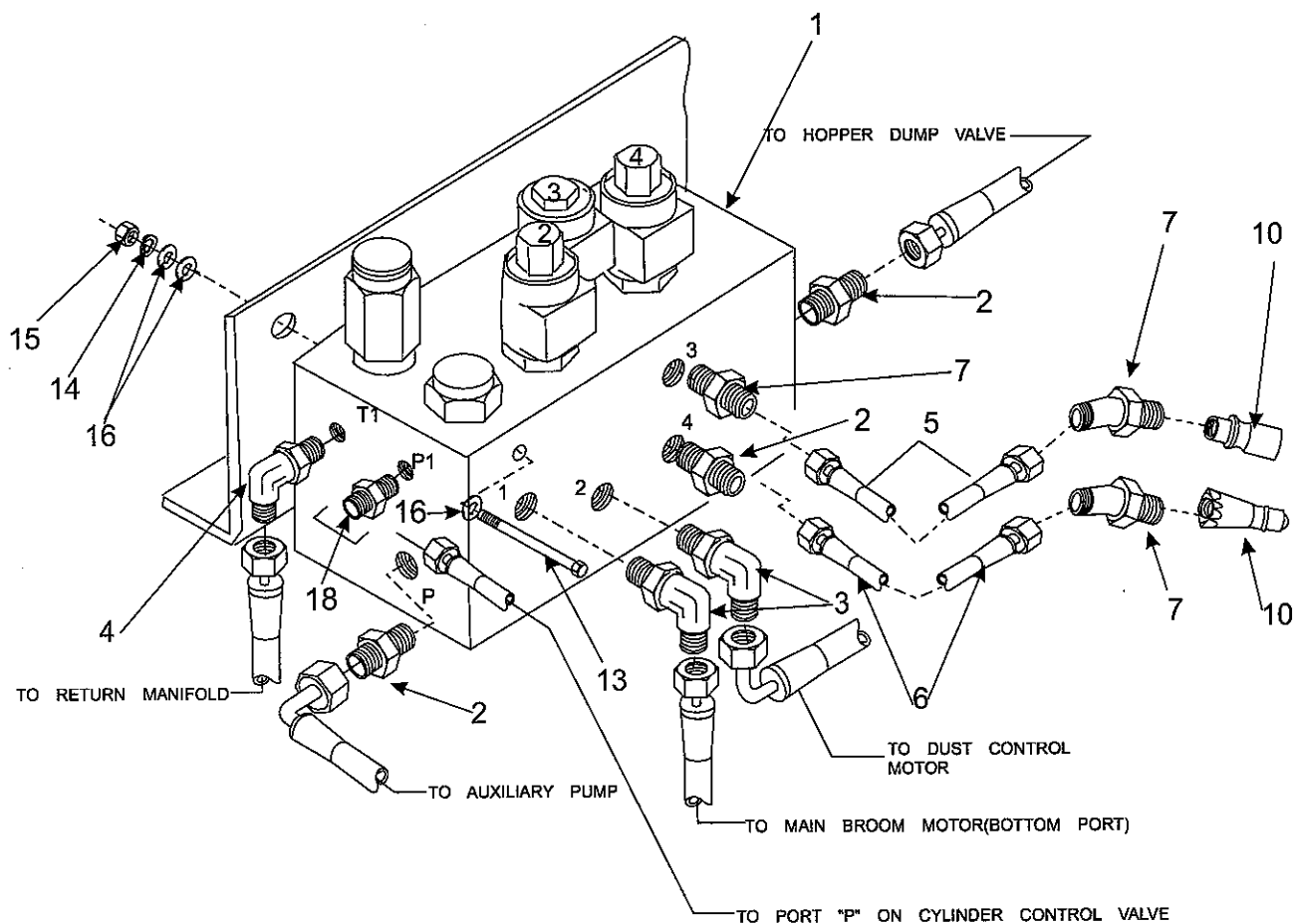
DUST CONTROL IMPELLER AND FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04976	ORFS 45° Elbow, 7/16-20 to 9/16-180	1
2	2-00-04975	ORFS 45° Elbow, 3/4-16 to 13/16-16	1
3	0882-041	Dust Control Motor	1
4	2-00-04885	ORFS 90° Elbow, 3/4-16 to 13/16-16	1
5	8-33-02198	Hose	Ref.
6	7-33-02192	Hose	Ref.

P4837a/9511

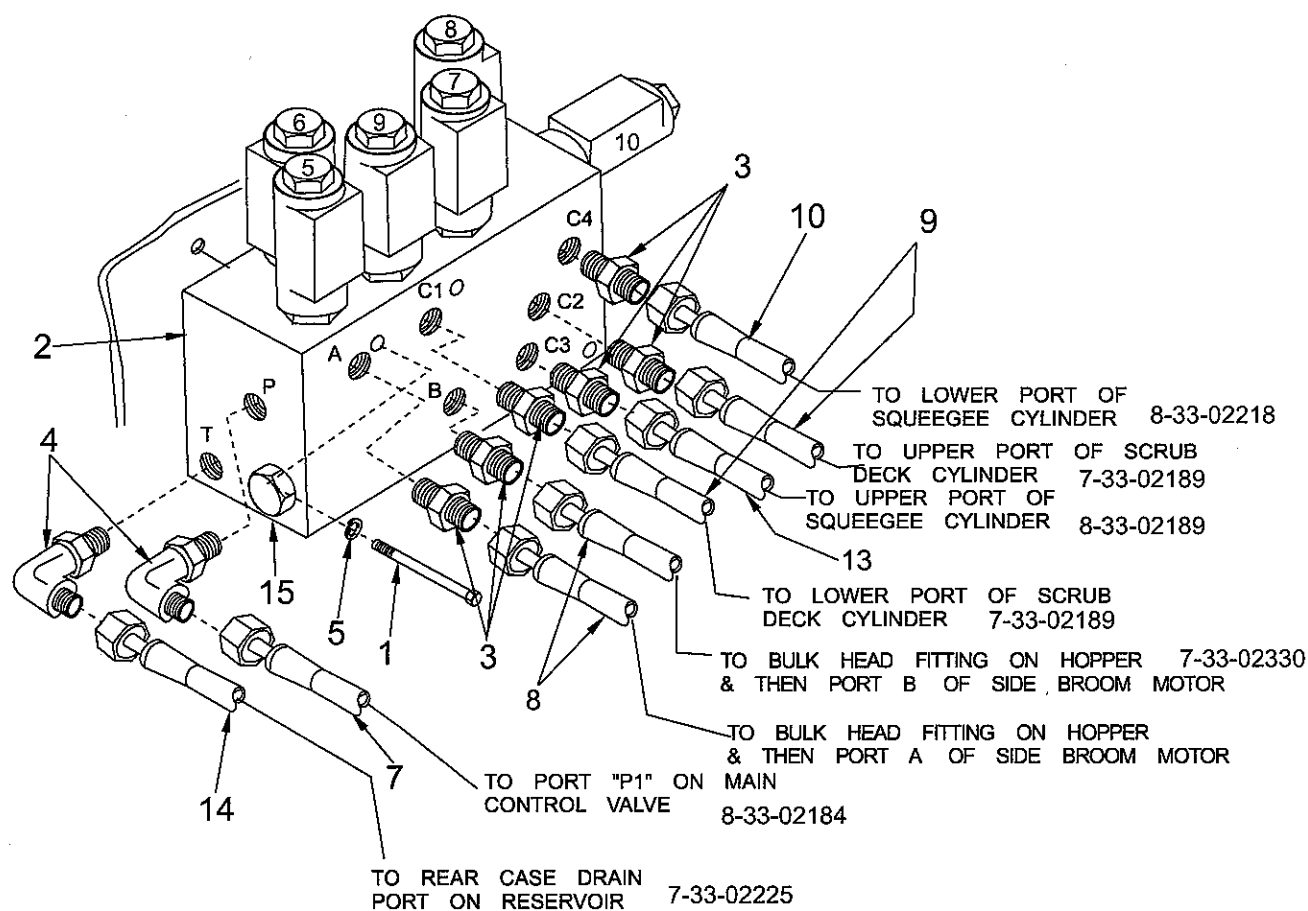
MAIN CONTROL VALVE AND FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-88-00035	Valve	1
2	2-00-04970	Fitting - Straight	4
2A	2-00-04975	Fitting - #8 ORS - #8 SAE - Str. Thd., .45° El.	4
3	2-00-04885	ORFS 90° Elbow, 3/4-16 to 13/16-16	2
4	2-00-04892	ORFS 90° Elbow, 7/16-20 to 9/16-18 (Gas Only)	2
4	2-00-04892	ORFS 90° Elbow, 7/16-20 to 9/16-18 (Diesel only)	1
5	2-00-04986	Screw, 1/4 - 20 x 4.500 HHC	2
6	2-00-03702	Flat Washer For 1/4 Bolt	6
7	2-00-00518	Lock Washer, 1/4 Split	2
8	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	2
9	2-00-04895	Fitting - Straight	1
10	7-12-02002	Cartridge, Relief Valve	1
11	7-12-02001	Cartridge, Priority Flow Valve	1
12	7-12-02004	Cartridge, Solenoid Valve 2 POS 4 Way	1
13	7-12-02003	Cartridge, Solenoid Valve N.O.	2

P4833/9511

CYLINDER CONTROL VALVE AND FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04596	Screw, 1/4-20 x 3.500 HHC	2
2	7-88-00037	Valve	1
3	2-00-04895	Straight Fitting	6
4	2-00-04892	ORFS 90° Elbow, 7/16-20 to 9/16-18	2
5	2-00-00518	Lock Washer, 1/4 Split	2
6	8-33-02184	Hose	Ref.
7	7-33-02181	Hose	Ref.
8	7-33-02189	Hose	Ref.
9	8-33-02185	Hose	Ref.
10	8-33-02183	Hose	Ref.
11	7-33-02225	Hose	Ref.

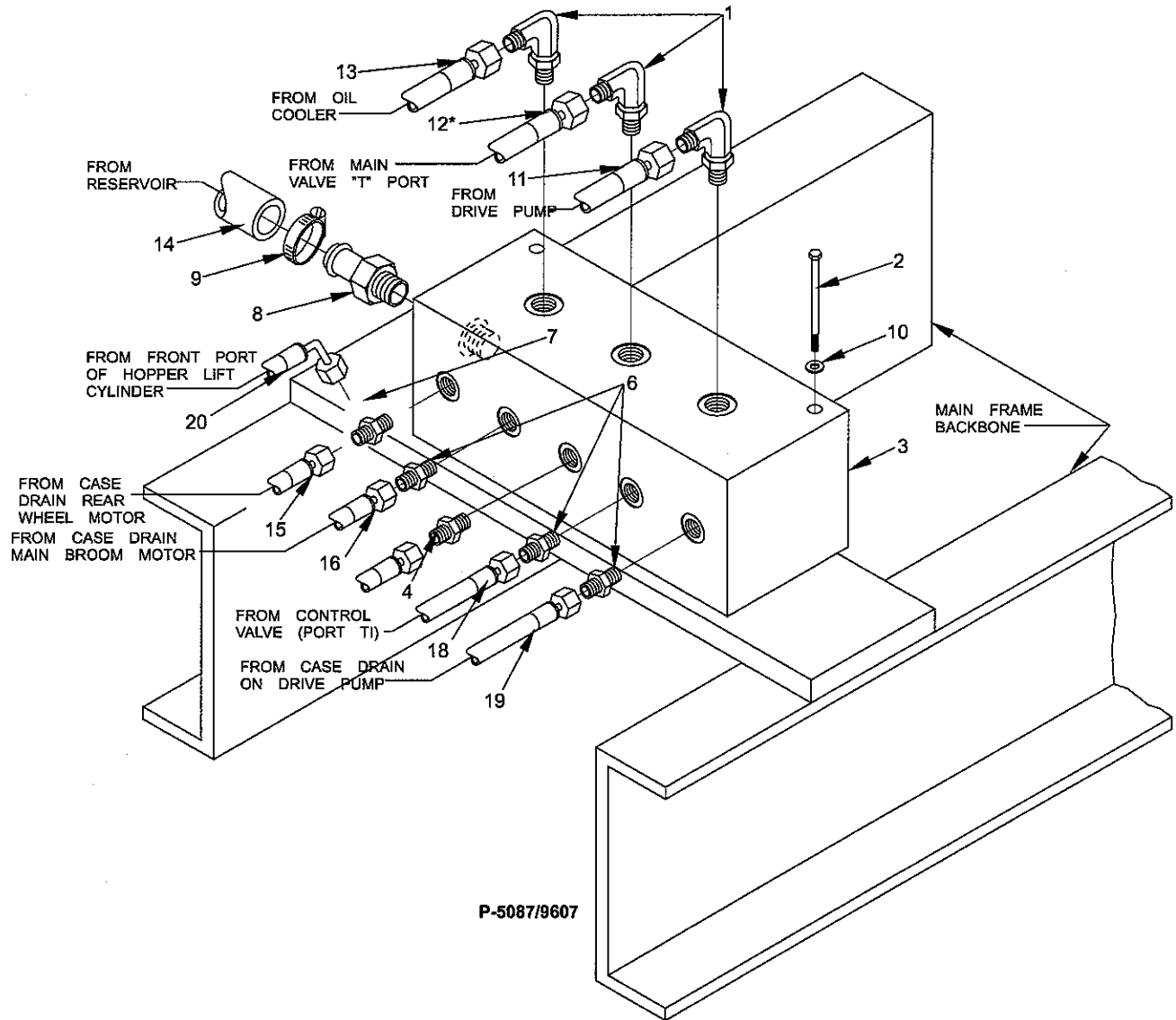
P4831/9511

RETURN MANIFOLD AND FITTINGS - PARTS LIST

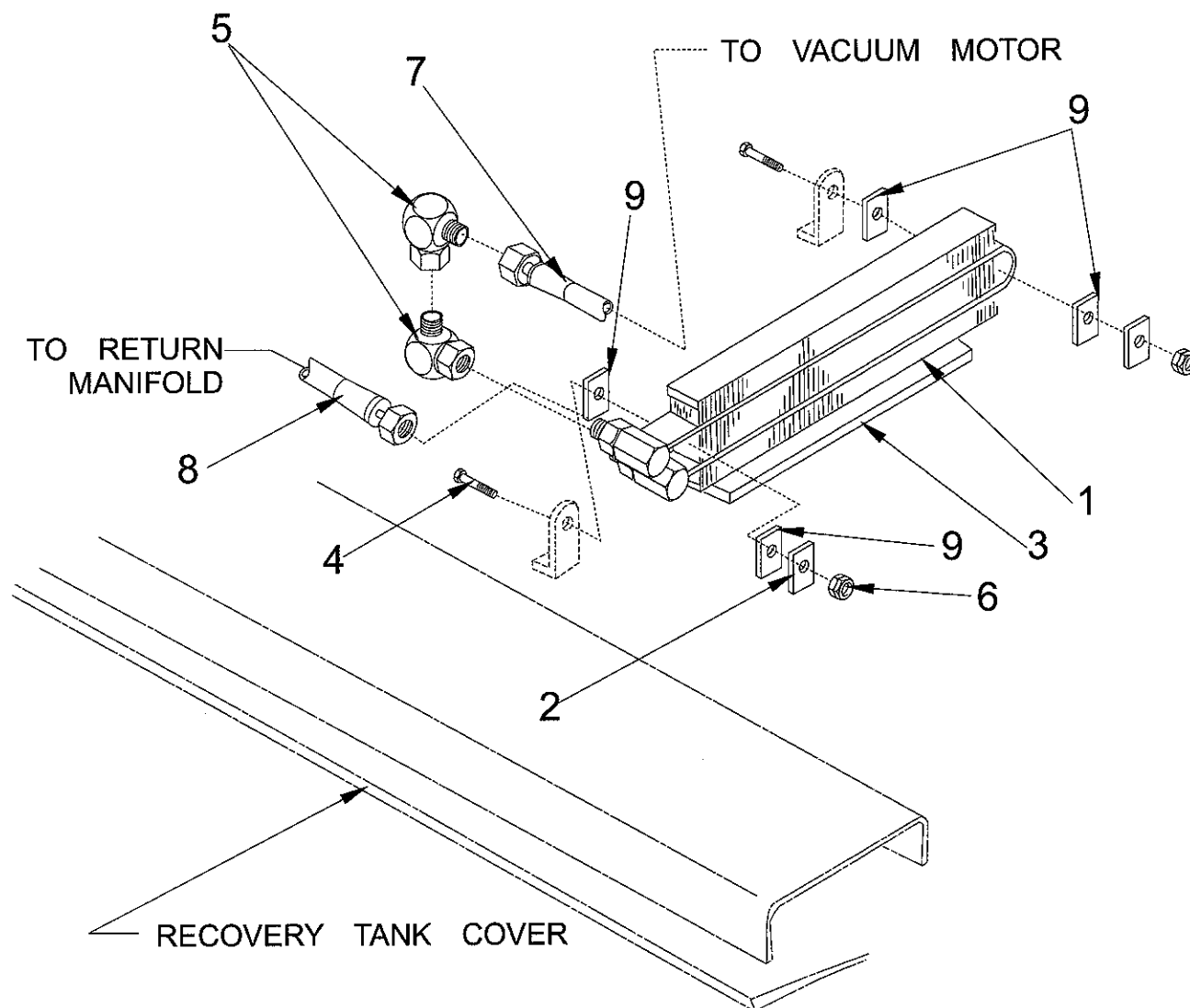
<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-04885	ORFS 90° Elbow, 3/4-16 to 13/16-16	3
2	2-00-02638	Screw, 1/4-20 x 3.000 HHC	2
3	7-48-00019	Return Manifold	1
4			
5			
6	2-00-04895	ORFS Connector, 7/16-20 to 9/16-18	4
7	2-00-04927	ORFS Run Tee, 7/16-20 to 9/16-18	1
8	2-00-05073	Straight Barbed Stem, 1-11 1/2 x .50 x 2.57	1
9	2-00-02220	Hose Clamp, .812 - 1.500	1
10	2-00-03702	Flat Washer, .625 x .281 x .062	2
11	7-33-02197	Hose	Ref.
12	7-33-02187	Hose	Ref.
13	8-33-02245	Hose	Ref.
14	8-33-02251	Hose	Ref.
15	8-33-02184	Hose	Ref.
16	8-33-02200	Hose	Ref.
17	7-33-02191	Hose	Ref.
18	7-33-02180	Hose	Ref.
19	7-33-02186	Hose	Ref.
20	7-33-02193	Hose	Ref.

P5087/9511

RETURN MANIFOLD AND FITTINGS - EXPLODED VIEW



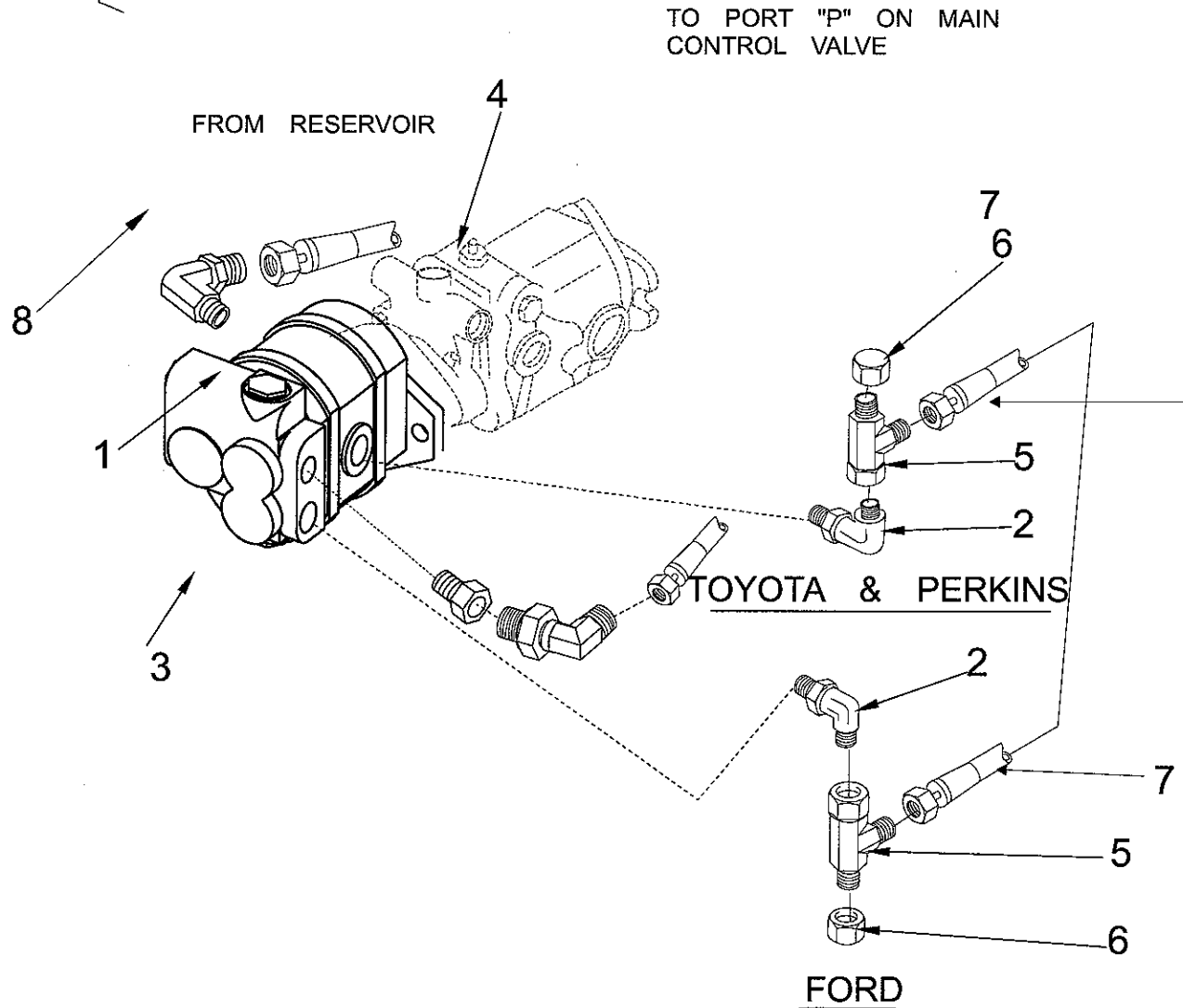
OIL COOLER & FITTINGS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-62-01010	Oil Cooler	1
2	8-13-07088	Clip	2
3	7-29-00207	Gasket	1
4	2-00-01980	Screw, 1/4-20 x 2.500 HHC	2
5	2-00-04822	37° JIC Flared Tube End 90° Swivel Elbow, 3/4-16	2
6	2-00-00641	Nut, Hex Fiber Insert 1/4 - 20	2
7	7-33-02201	Hose	Ref.
8	7-33-02202	Hose	Ref.

P4382c/9511

AUXILIARY PUMP & FITTINGS

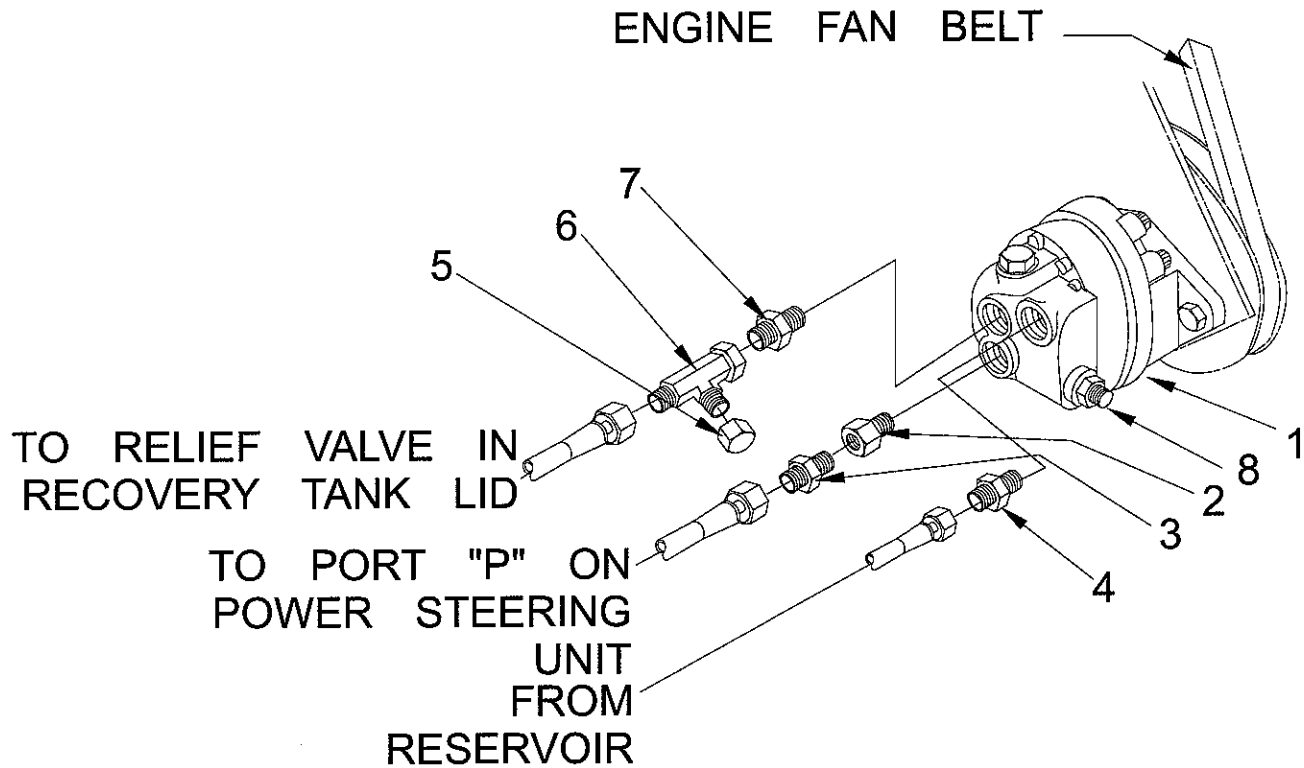


KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04920	ORFS 90° Elbow, 1 5/16-12 to 1 3/16-12	1
2	2-00-04921	ORFS 90° Elbow, 7/16-20 to 9/16-18	1
3*	0885-067	Auxiliary Pump	1
4*	8-60-05006-2	Drive Pump	1
5	2-00-04928	ORFS Swivel Tee, 13/16-16	1
6	2-00-04957	ORFS Cap, #8 ORS	1
7	8-33-02202	Hose	Ref.
8	7-33-02220	Hose	Ref.

* Drive and Auxiliary Pump Assembly #0885-063

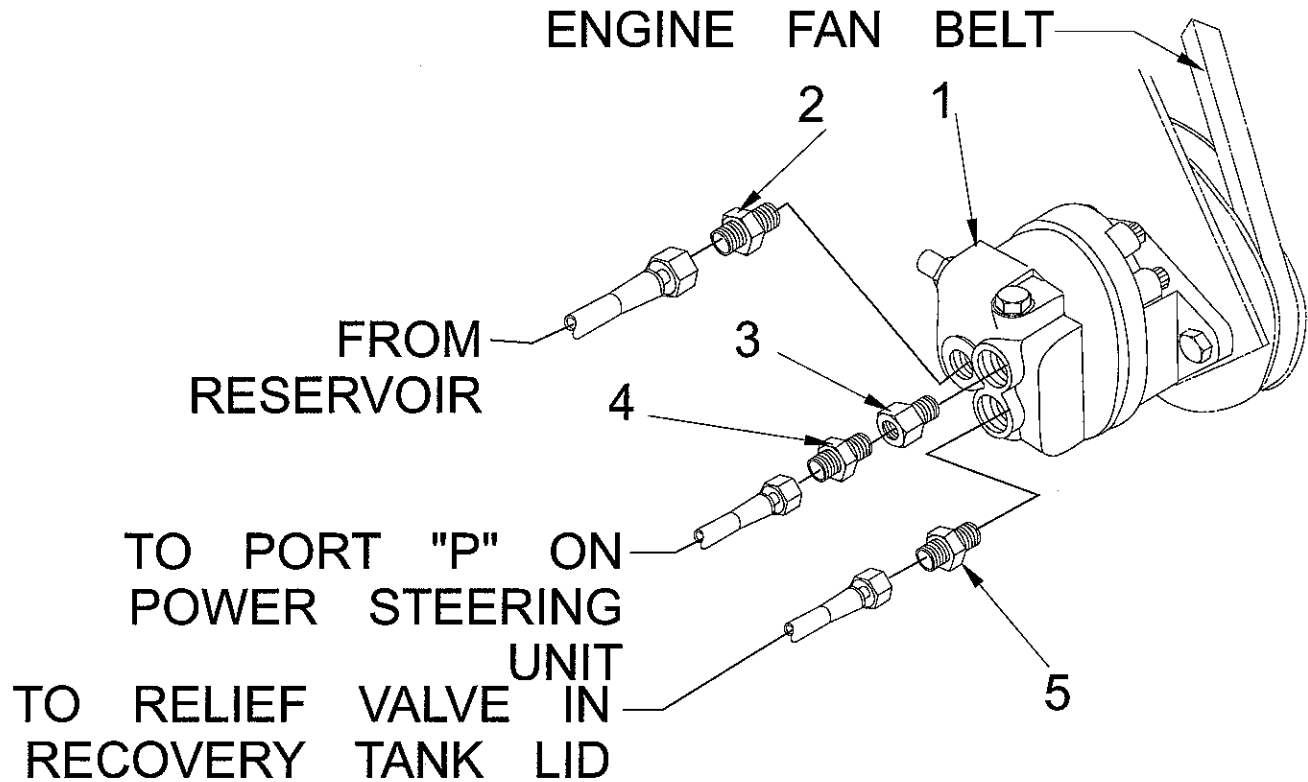
P3808e/9511

AUXILIARY PUMP AND FITTINGS (FORD)



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-60-05011	Gear Pump	1
NS	0780-152	Seal Kit for 7-60-05011 Gear Pump	1
2	2-00-04932	ORFS Boss Reducer, 3/4-16 to 9/16-18	1
3	2-00-04918	ORFS Connector, 9/16 - 18	1
4	2-00-04971	ORFS Connector, 1 5/16-12 - 1 3/16-12	1
5	2-00-04957	ORFS Cap, #8 ORS	1
6	2-00-04928	ORFS Run Tee, 13/16 - 16	1
7	2-00-04974	ORFS Connector, 7/8-14 to 13/16-16	1
8	7-88-00046	Relief Valve Assembly	1

P4880a



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-60-05011	Gear Pump	1
NS	0780-152	Seal Kit for 7-60-05011 Gear Pump	1
2	2-00-04932	ORFS Boss Reducer, 3/4 - 16 to 9/16 - 18	1
3	2-00-04918	Straight Fitting	1
4	2-00-04971	Straight Fitting	1
5	2-00-04957	Cap Fitting	1
6	7-88-04928	Fitting, Swivel Run Tee	1
7	2-00-04974	Connector, ORFS 7/8 - 14 to 13/16 - 16	1
8	7-88-00046	Relief Valve Assembly	Ref.

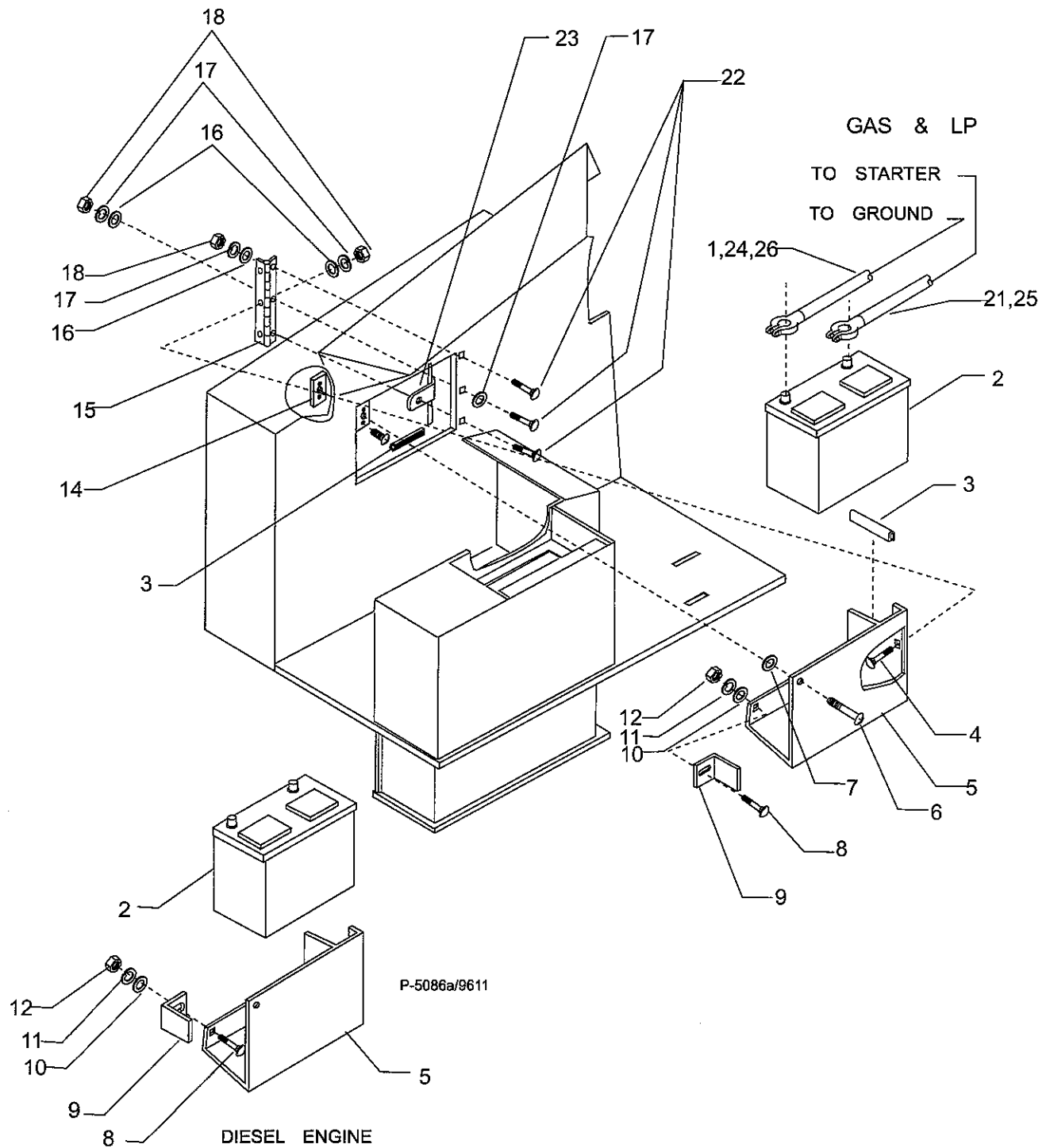
P4880/9511

BATTERY - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-90-07167	Wire, to Starter	1
2	0875-008	Battery (Gas & LP)	1
2	0875-057	Battery (Diesel)	1
3	8-21-04016	Edging	2
4	2-00-03569	Carriage Bolt, 5/16-18 x .750	3
5	7-19-08033	Battery Access Door	1
6	7-23-03113	Screw, #17(.312) x 1.000 CAPT.SL.	1
7	7-23-03106	Retainer Washer, .265 x .625 x .025	1
8	2-00-03575	Carriage Bolt, 1/4-20 x .750	2
9	7-13-07109	Battery Clamp	1
10	2-00-03702	Flat Washer, .625 x .281 x .062	1
11	2-00-00518	Lock Washer, Helical Spring 1/4 Med	1
12	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	1
13			
14	7-23-03108	Receptacle Bracket,	1
15	7-32-00023	Hinge,	1
16	2-00-00409	Flat Washer, .687 x .343 x .062	6
17	2-00-00530	Lock Washer, Helical Spring 5/16 Med	6
18	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	6
19			
20			
21	7-90-07262	Wire, to Ground (Ford 423)	1
22	2-00-02708	Screw, 5/16-18 x 1.000 HHC	3
23	2-00-05253	Cable Clamp, .500	1
24	2-00-05171	Boot, Protective (Red)	1
25	2-00-05173	Boot, Protective (Black)	1
26	7-90-07280	Battery (+) Cable (Diesel Only)	1

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BATTERY - EXPLODED VIEW

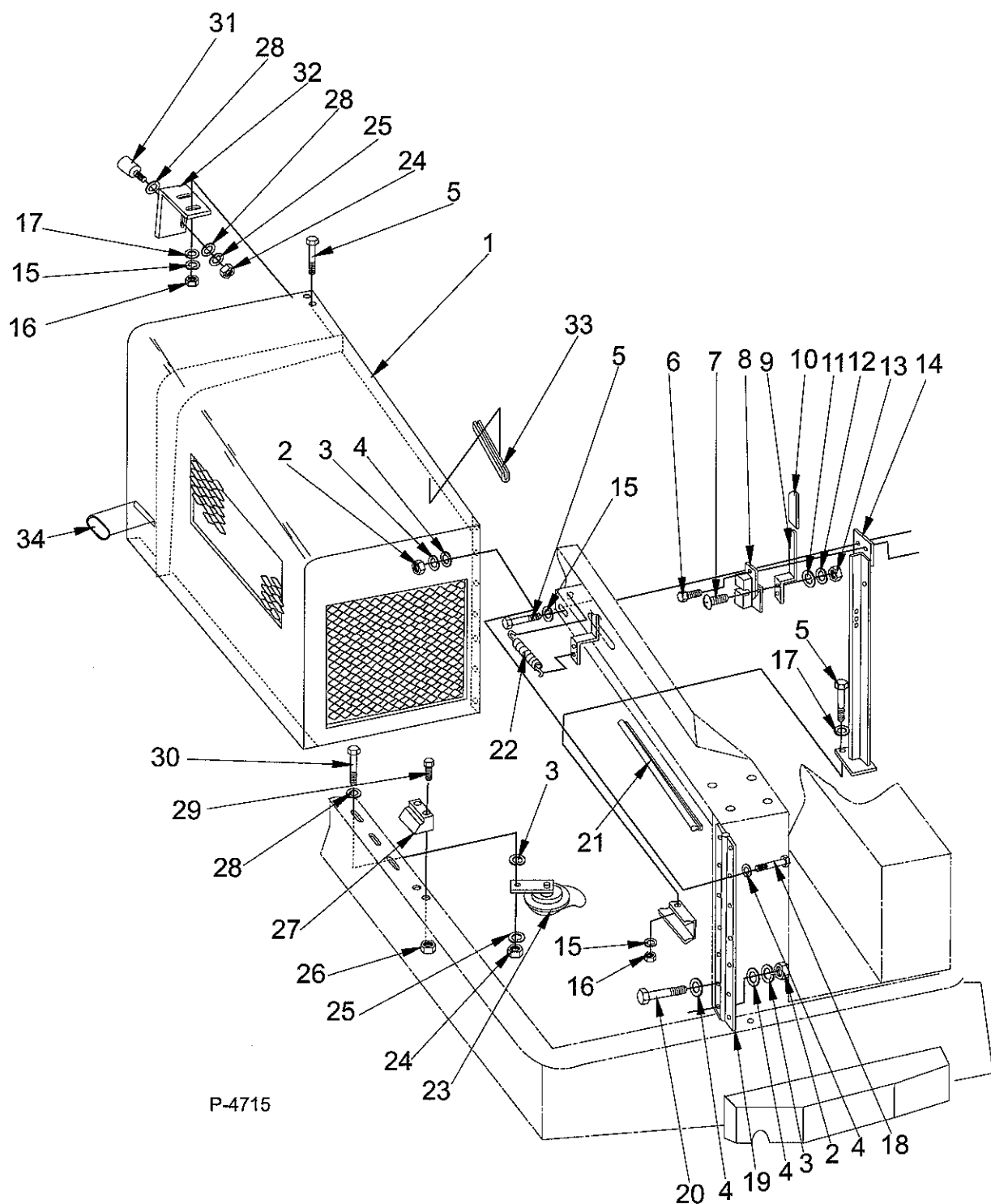


ENGINE COVER - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-16-07279	Engine Cover	1
2	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	14
3	2-00-02310	Lock Washer, Heli.Spr. 3/8 Med	14
4	2-00-00410	Flat Washer, .875 x .375 x .062	28
5	2-00-01490	Screw, 1/4 - 20 x .875 HHC	4
6	2-00-00221	Screw, 1/4 - 20 x .750 HHC	2
7	2-00-04794	Screw, #10-24 x .625 HHC	2
8	8-41-00037	Engine Cover Latch	1
9	7-31-06062	Handle Cover Latch	1
10	7-31-06061	Cover Latch Grip	1
11	2-00-00426	Flat Washer, .500 x .218 x .062	2
12	2-00-00519	Lock Washer, Helical Spring #10 Med	2
13	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	2
14	7-81-00138	Center Support	1
15	2-00-00518	Lock Washer, Helical Spring 1/4 Med	6
16	2-00-00594	Nut, 1/4-20 x .437 x .218	4
17	2-00-03702	Flat Washer, .625 x .281 x .062	3
18	2-00-00233	Screw, 3/8-16 x 1.000 HHC	12
19	7-32-00022	Hinge	1
20	2-00-00209	Screw, 3/8-16 x 1.250 HHC	2
21	7-29-00157	Gasket	1
22	7-76-00106	Spring	1
23	8-32-09013	Horn,	1
24	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	3
25	2-00-00530	Lock Washer, Helical Spring 5/16 Med	3
26	2-00-00641	Nut, Hex Fiber Insert 1/4 - 20	1
27	7-78-05016	Engine Cover Stop	1
28	2-00-00409	Flat Washer, .687 x .343 x .062	3
29	2-00-00203	Screw, 3/8-16 x 1.250 HHC	2
30	2-00-03564	Screw, 5/16-18 x 1.000 HHC	1
31	7-55-08116	Striker Pin	2
32	7-08-00532	Engine Cover Bracket	1
33	8-08-07045	Edging	1
34	8-21-04038	Edging	1

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ENGINE COVER - EXPLODED VIEW

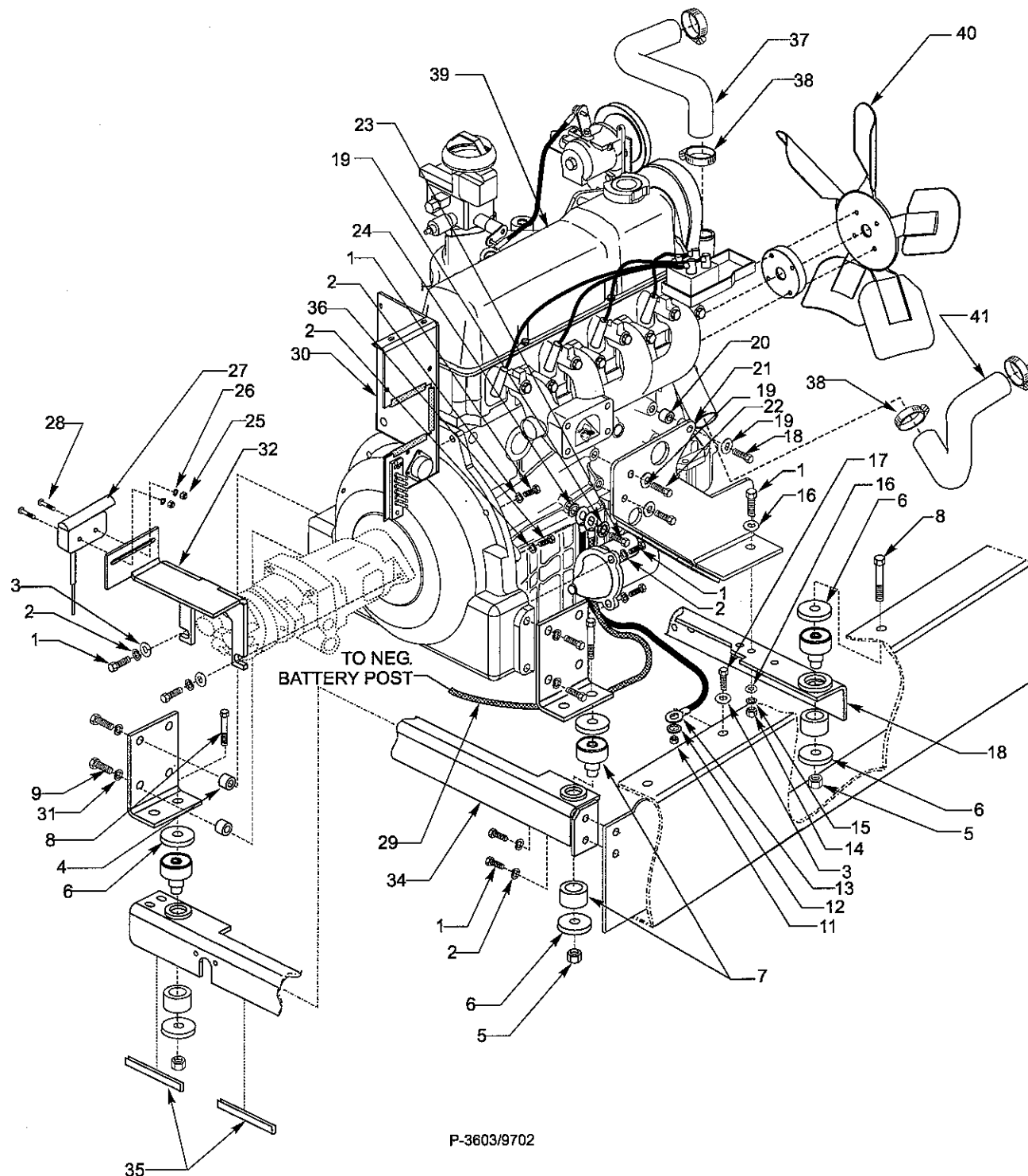


FORD 425 ENGINE - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00209	Screw, 3/8-16 x 1.25 Lg. HHC	15
2	2-00-02309	Lockwasher, 3/8 H. S. Med.	22
3	2-00-00402	Flatwasher, .75 x .39 x .09	3
4	7-75-01099	Spacer, Engine Mounting	2
5	2-00-04936	Nut, 1/2-20 Fiber Lock	4
6	2-00-05067	Spacer, Snubbing Washer	8
7	7-35-00017	Isolator, Engine Mount	4
8	2-00-02617	Screw, 1/2-20 x 3.50 lg. HHC	4
9	2-00-02689	Screw, 1/2-20 x 1.00 HHC	2
10	7-08-00835	Bracket - Engine Mounting	2
11	2-00-02360	Nut, 3/8-16 Hex. x .56 x .33	11
12	2-00-03829	Lockwasher, 3/8 int./ext. Tooth	2
13	8-90-07328	Cable, Ground	Ref.
14	2-00-02360	Nut, 3/8-16 Hex. x .56 x .33	11
15	2-00-02310	Lockwasher, 3/8 H. S. Med.	22
16	2-00-03979	Flatwasher, 1.00 x .39 x .06	7
17	2-00-00232	Screw, 3/8-16 x .75 HHC	1
18	2-00-05328	Screw, M10 x 1.5 50 mm HHC	1
19	2-00-00505	Lockwasher, 3/8 Int.	12
20	8-75-01210	Spacer, Engine Mount	1
21	7-08-00829	Motor Mount - Bracket	1
22	2-00-05005	Screw, M10 x 1.5 - 30mm HHC	4
23	2-00-05006	Screw, M10 x 1.5 20mm HHC	1
24	2-00-03830	Lockwasher, 3/8 int./ext. Tooth	2
25	2-00-01372	Nut, Hex. #8-32 Fiber Lock	2
26	2-00-00455	Flatwasher, .38 x .16 x .05	2
27	8-82-00058	Switch	1
28	2-00-00090	Screw, #8-32 x 1.50 RHM	2
29	7-90-07262	Cable, Battery (-)	Ref.
30	7-08-00836	Bracket - Air Cleaner	1
31	2-00-02312	Lockwasher, 1/2 H. S. Med.	4
32	7-08-00825	Bracket - Switch Mounting	1
33	7-81-00132	Support, Front Engine	1
34	7-81-00140	Support, Rear Engine	1
35	2-00-04210	Edging	2
36	2-00-00216	Screw, 3/8-16 x 2.00 HHC	2
37	8-33-02337	Hose, Upper Radiator	1
38	2-00-02215	Clamp, Hose	6
39	0877-060	Engine - Ford LRG 423	1
40	7-23-00018	Fan, Engine	1
41	8-33-02336	Hose, Lower Radiator	1

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FORD 425 ENGINE - EXPLODED VIEW



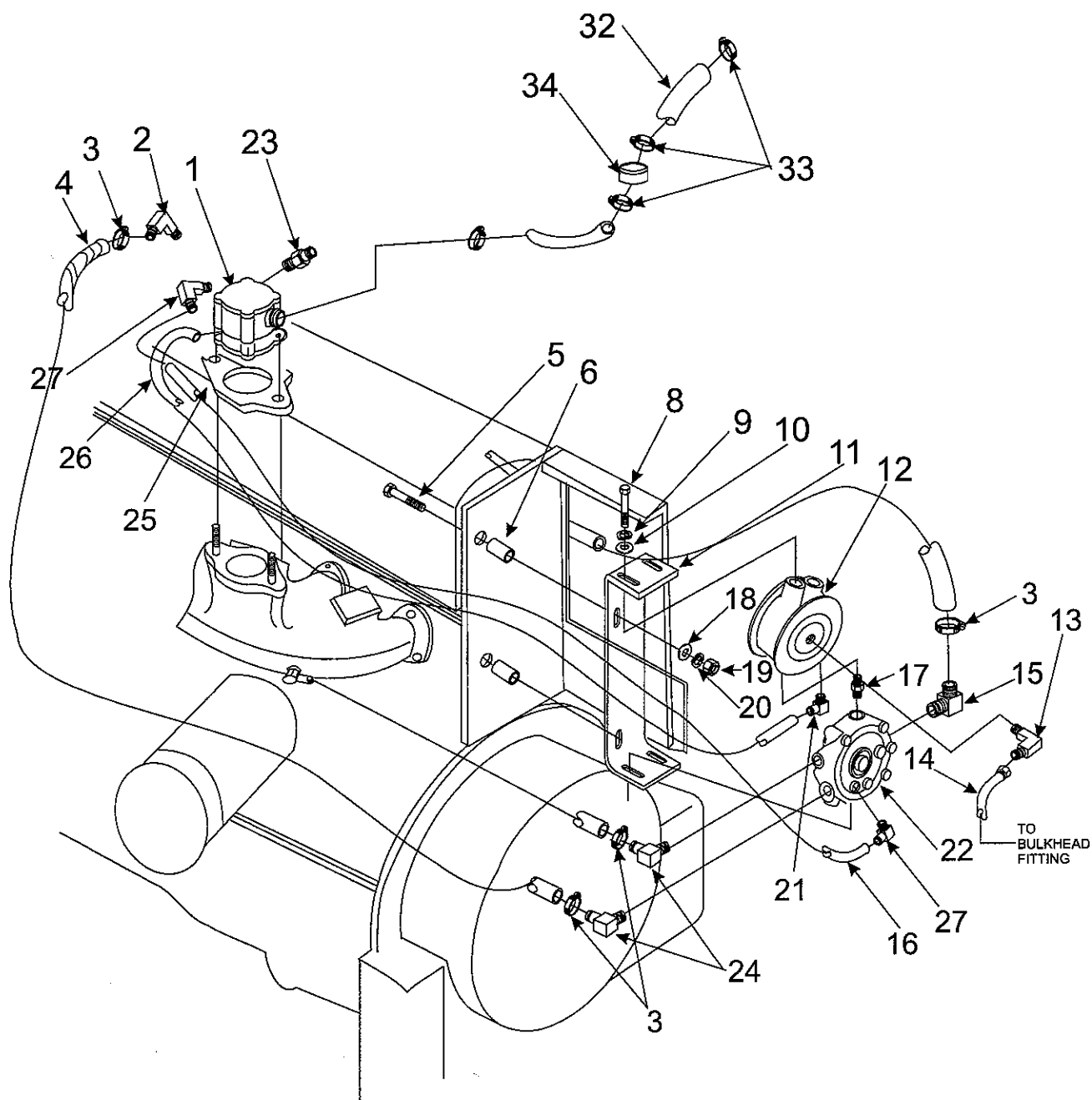
LP FORD ENGINE - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1*		OHG Carburetor	1
2*		Fitting, 3/8 NPT x 3/8 Tube 90° Elbow	1
3*		Hose Clamp #8	2
4*		Hose, 5/8 ID x 24 Lg.	1
5	2-00-01769	Screw, 1/4 - 20 x .750 HHC	2
6	7-75-01096	Spacer, .750 x .343 x 1.13	2
7			
8	2-00-00220	Screw, 1/4 - 20 x .625 HHC	4
9	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
10	2-00-00416	Flat Washer, .750 x .265 x .062	4
11*		Bracket,	1
12*		Fuelock Filter	1
13*		Fitting, 1/4 NPT x 3/8 SAE 90° Elbow	1
14		Clamp	1
15*		Fitting, 3/8 x 5/8 Hose	1
16*			
17*		Fitting, 1/4 NPT Nipple	1
18	2-00-00416	Flat Washer, .750 x .265 x .062	2
19	2-00-00594	Nut, 1/4 - 20 x .437 x .218	2
20	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
21*		Fitting, 1/8 NPT x 7/32 Tube 90° Elbow	1
22*		Regulator - Vaporizer	1
23*			
24*		Fitting, 1/2 NPT x 5/8 Tube 90° Elbow	1
25*		Clamp, #6	1
26*		Vac Hose, 1/4 ID x 27 Lg.	1
27*		Fuel Pump Cover Gasket	1
28*			
29*		Gas Passage Plate Gasket	1
30	3-61-00189	Wire, 16 Gauge Black	1
31	2-00-00828	Terminal, Ring .25	1

NOTE

All parts marked with an * are contained in LP Engine Kit # 7-11-0414

P4918a/9510



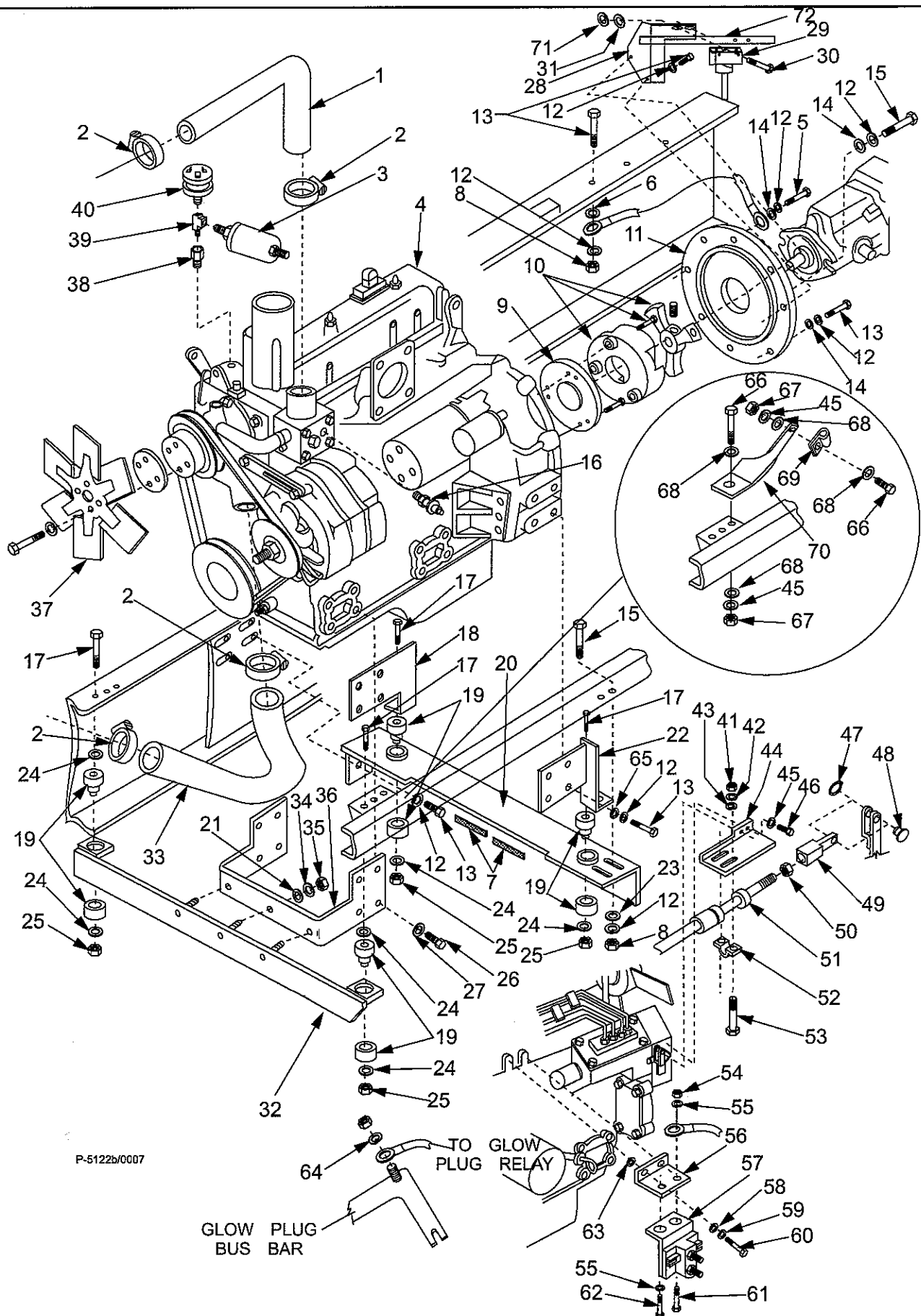
PERKINS DIESEL ENGINE - PARTS LIST

Key No.	Part No.	Description	Qty.	Key No.	Part No.	Description	Qty.
1	8-33-02255	Upper Radiator Hose	1	41	2-00-01246	Nut, Hex Fiber Insert #10-24	2
2	2-00-03404	Hose Clamp, 1.062 - 2.0004		42	2-00-00426	Flat Washer, .500 x .218 x .062	2
3	8-69-00005	Oil Pressure Sender	1	43	2-00-02296	Lock Washer, #10 Ext	2
4	0877-048-1	PERKINS 104.19 Diesel Engine	1	44	8-08-00714	Throttle Cable Bracket	1
5	2-00-04705	Screw, 3/8-16 x 1.250 HHC	1	45	2-00-00518	Lock Washer, Hel Spr 1/4 Med.	2
6	8-90-07328	Ground Cable	1	46	2-00-05078	Screw, M6-1.00 x 10 mm MHHC	2
7	2-00-03829	Lock Washer, 3/8 Int/Ext	1	47	2-00-00546	Snap Ring, .31 (Shaft)	1
8	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	3	48	8-55-08083	Clevis Pin	1
9	8-58-05259	Adapter Plate	1	49	8-14-01012	Throttle Adjustment Clevis	1
10	0885-059	Coupling	1	50	2-00-00626	Nut, Hex MS #10-32 .125	1
11	8-33-05107	Pump Mounting Plate	1	51	7-10-00024	Throttle Cable - 80"	1
12	2-00-02310	Lock Washer, Hel Spr 3/8 Med	19	52	8-13-07094	Conduit Clamp	1
13	2-00-00233	Screw, 3/8-16 x 1.000 HHC	19	53	2-00-04794	Screw, #10-24 x .625 BHS	2
14	2-00-00402	Flat Washer, .750 x .390 x .093	10	54	2-00-00605	Nut, Hex MS #10-24	1
15	2-00-00209	Screw, 3/8-16 x 1.250 HHC	4	55	2-00-00519	Lock Washer, Hel Spr #10 Med	1
16	8-69-00014	Water Temperature Sender	1	56	8-08-00604	Glow Plug Solenoid Bracket	1
17	2-00-02617	Screw, 1/2-20 x 3.500 HHC	4	57	-	Supplied with Engine	1
18	7-08-00580	Outboard Eng. Mtg. Flwhl. End	1	58	2-00-00409	Flat Washer, .687 x .343 x .062	2
19	7-35-00017	Mounting Isolator	4	59	2-00-00530	Lock Washer	2
20	7-81-00140	Rear Engine Support	1	60	2-00-04363	Screw M8-1.25 x 20 mm MHHC	2
21	2-00-04159	Flat Washer, .500	3	61	2-00-03063	Screw, #10-24 x .750 THM	1
22	7-08-00581	Inboard Eng. Mtg. Flwhl. End	1	62	2-00-03060	Screw, #10-24 x .375 THM	1
23	2-00-03979	Flat Washer	2	63	2-00-02303	Lock Washer, 5/16 Int	2
24	2-00-05067	Snubbing Washer	6	64	2-00-00507	Lock Washer, #8 Int.	1
25	2-00-04936	Nut, Hex Fiber Insert	4	65	2-00-00410	Flat Washer, .875 x .375 x .062	8
26	2-00-05079	Screw, M14-1.50 x 25mm	8	66	2-00-00221	Screw, 1/4-20 x .750 HHC	2
27	2-00-05044	Lock Washer, M14	8	67	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	2
28	7-08-00820	Bracket, Squeegee Switch Mtg.	1	68	2-00-03702	Flat Washer, .625 x .280 x .063	4
29	8-82-00058	Switch	1	69	2-00-04873	Cable Clamp, .500	1
30	2-00-00090	Screw, #8-32 x 1.500 RHM	2	70	7-08-00620	FWD/RVS Cable Bracket	1
31	2-00-00441	Flat Washer, .44 x .20 x .04	2	71	2-00-01372	Nut, #8-32 Hex Fiber Lock	2
32	7-08-00586	Engine Mount (Fan End)	1	72	7-21-04031	Edging	2
33	-	Lower Radiator Hose	1				
34	2-00-02312	Lock Washer, Hel Spr 1/2 Med.	3				
35	2-00-00596	Nut, Hex 1/2-13 x .750 x .437	3				
36	7-08-00579	Engine Mounting Bracket	1				
37	7-23-00016	Engine Fan	1				
38	2-00-05049	Adapter, 1/8 BSPT x 1/8 NPTF	1				
39	2-00-04982	Street Tee, 1/8 Brass	1				
40	8-82-00046	Oil Pressure Switch	1				

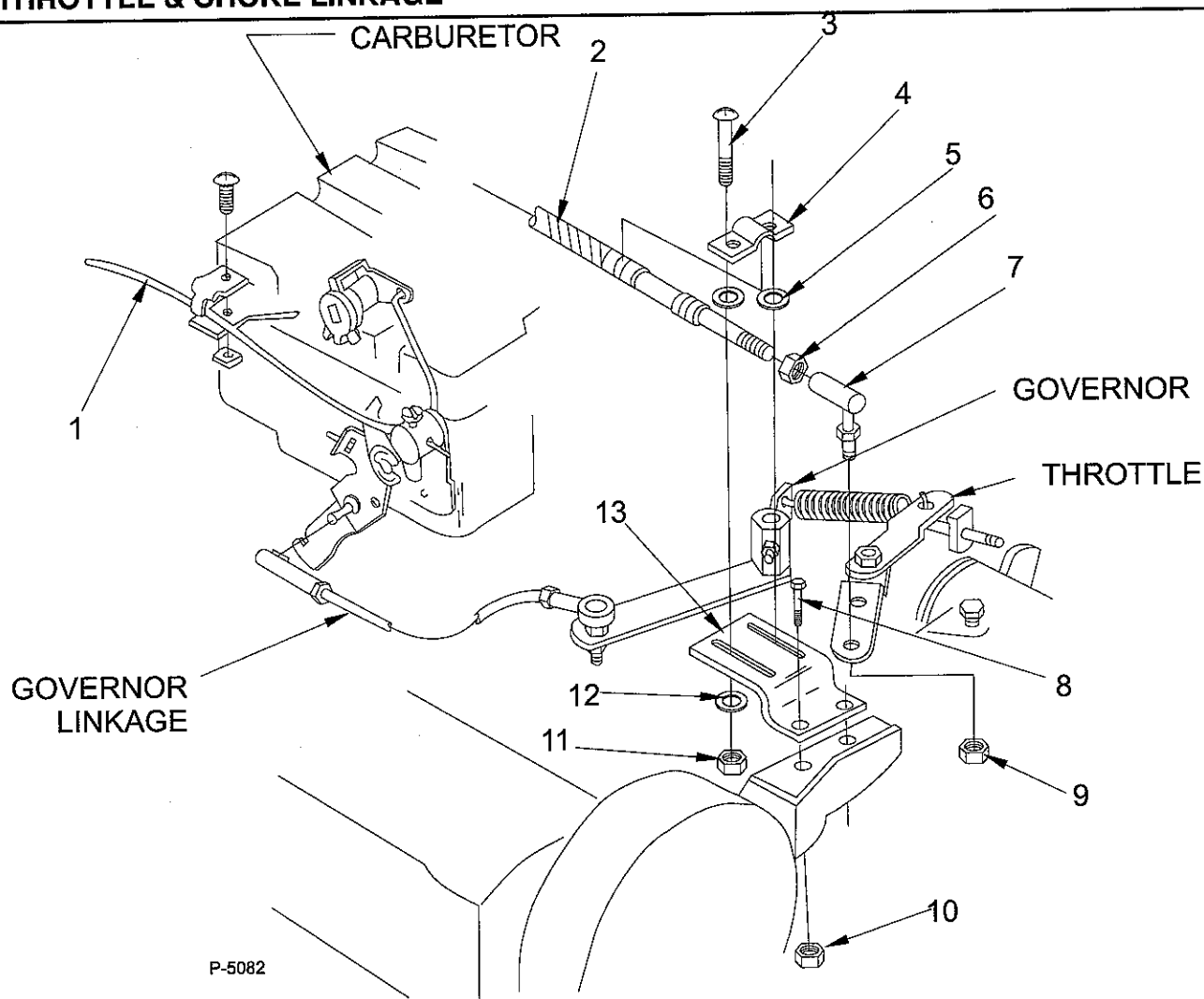
P5122btX

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PERKINS DIESEL ENGINE - EXPLODED VIEW

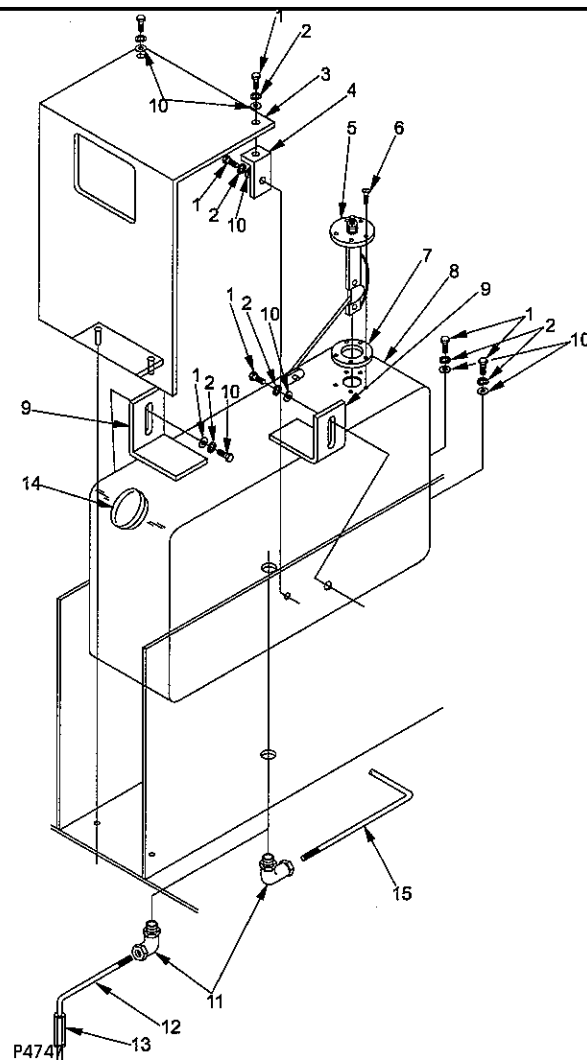


THROTTLE & CHOKE LINKAGE



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-16-00021	Choke Cable	1
2	7-10-00024	Throttle Cable	1
3	2-00-04794	Screw, #10-24 x .625 BHS	2
4	8-13-07094	Clamp	1
5	2-00-00498	Lock Washer, 1/4 Ext.	2
6	2-00-00626	Nut, Hex MS #10-32 x .375 x .125	1
7	8-25-02036	Ball Joint	1
8	2-00-02708	Screw, 5/16-18 x 1.000 HHM	2
9	2-00-00633	Nut, Hex Fiber Insert 1/4-28	2
10	2-00-00644	Nut, Hex Fiber Insert 5/16-18	2
11	2-00-01246	Nut, Hex Fiber Insert #10-24	2
12	2-00-00426	Flat Washer, .500 x .218 x .062	2
13	8-08-00704	Bracket	1

P5082



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00221	Screw, 1/4-20 x .750 HHC	8
2	2-00-00518	Lock Washer, Helical Spring 1/4 Med	8
3	7-16-07280	Cover	1
4	7-08-00479	Bracket	2
5	8-26-04003	Float	1
6	2-00-04737	Screw, #10-32 x .44 (Self Seal)	5
7	8-29-00131	Gasket	1
8	8-83-04029	Fuel Tank	1
9	7-13-07100	Bracket	2
10	2-00-01676	Flat Washer, 1.062 x .265 x .062	8
11	2-00-04494	Compression Male 90° Elbow, 1/8	1
12	7-87-02148	Fuel Line (Gas Only)	1
13	8-08-07038	Fuel Line Bumper (Gas Only)	3
14	7-11-00029	Fuel Cap	1
15	7-87-02160	Fuel Line (Diesel Only)	1

P4747

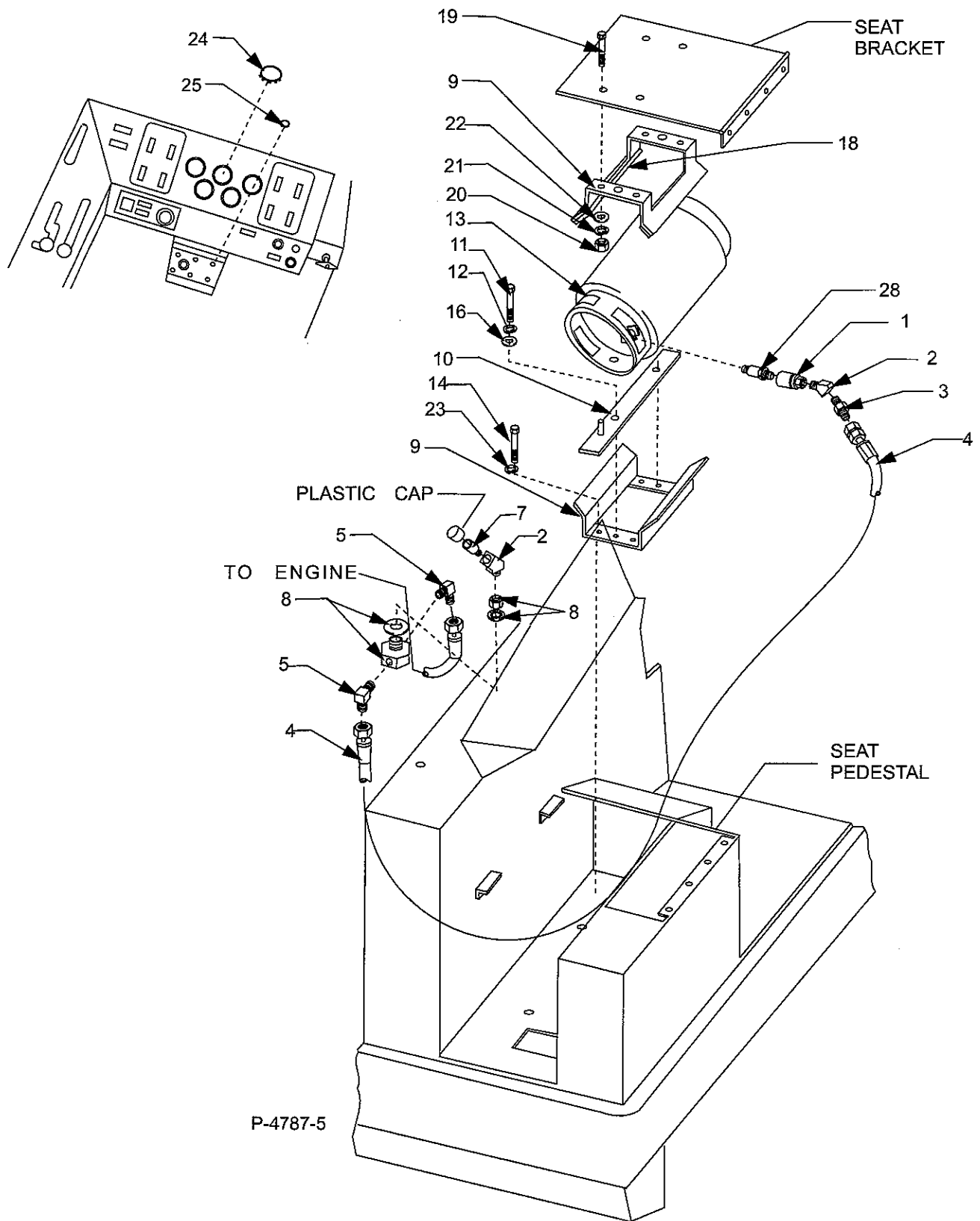
LP TANK SYSTEM - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	*	Coupling	1
2	*	Fitting, 1/4 NPT x 1/4 FM 45°	2
3	*	Fitting, 1/4 NPT x 3/8 SAE Straight	1
4	*	Hose, 5/16 I.D. x 53" Lg. #6 UL	1
5	*	Fitting, 1/4 NPT x 3/8 SAE 90°	2
6			
7	*	Relief Valve	1
8	*	Fitting, Bulkhead	1
9	7-15-01038	Collar Weldment	2
10	7-43-05004	Lock Weldment	1
11	2-00-00220	Screw, 1/4-20 x .625 HHC	2
12	2-00-00518	Lock Washer, 1/4	2
13	8-83-04016	LP Tank	1
14	2-00-00233	Screw, 3/8-16 x 1.000 HHC	4
15			
16	2-00-00416	Flat Washer	2
17			
18	7-50-05143	Pad	2
19	2-00-02708	Screw, 5/16-18 x 1.000 HHC	4
20	2-00-00585	Nut, Hex 5/16-18	4
21	2-00-00530	Lock Washer, 5/16	4
22	2-00-00409	Flat Washer	4
23	2-00-02310	Lock Washer, 3/8	4
24	2-00-04432	Hole Plug (Fuel Gauge)	1
25	2-00-04757	Hole Plug (Choke)	1
26			
27			
28		Fitting, (Included with Key No. 13)	1

*Contained in the LP Tank Kit Part Number 7-11-04009

P4787e/9510

LP TANK SYSTEM - EXPLODED VIEW



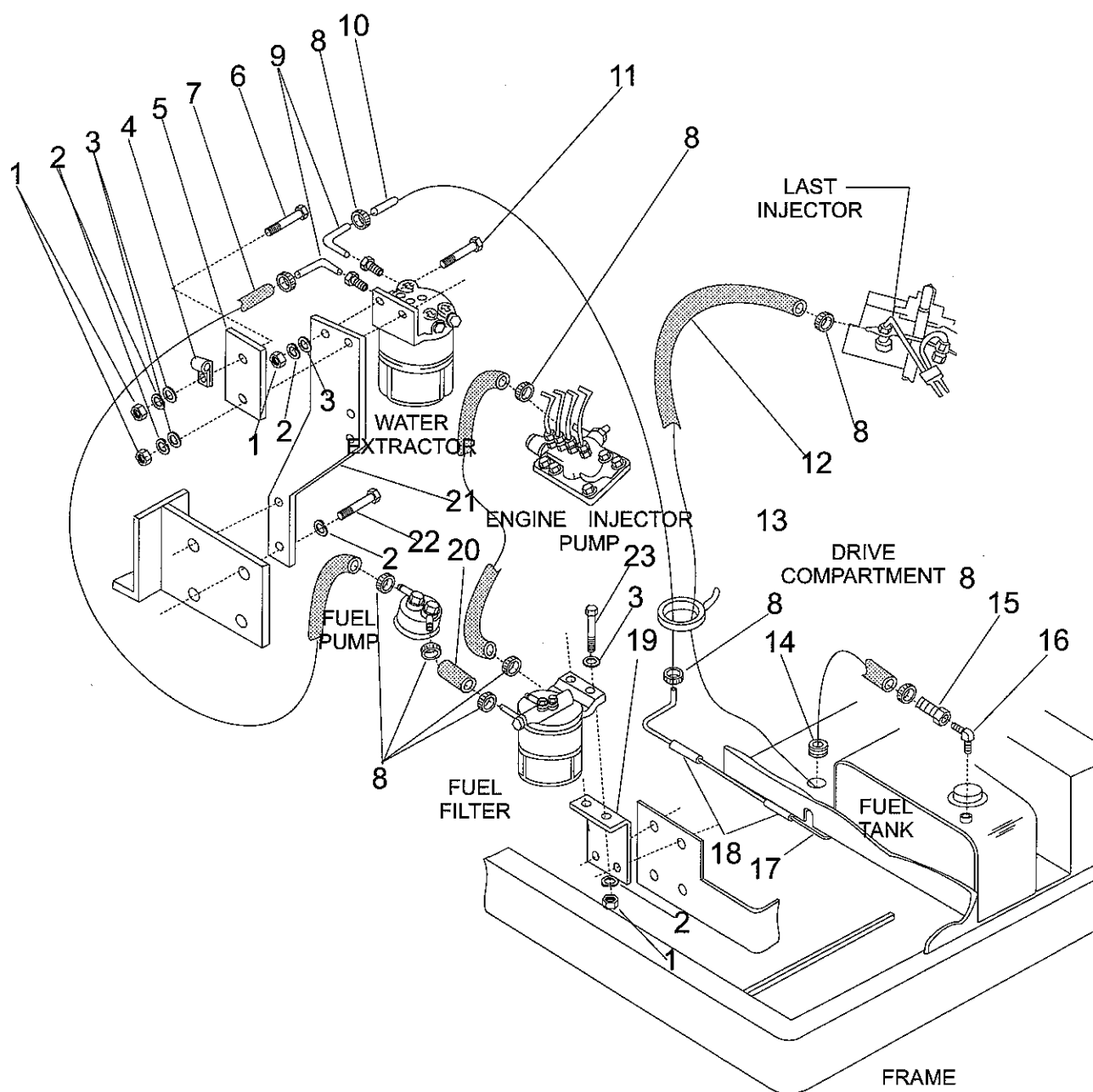
P-4787-5

FUEL AND WATER EXTRACTOR (DIESEL) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	5
2	2-00-02310	Lock Washer, Helical Spring 3/8 Med	7
3	2-00-00402	Flat Washer, .750 x .390 x .093	5
4	2-00-04873	Throttle Cable Clamp, .500	1
5	7-08-00588	Throttle Cable Support Bracket	1
6	2-00-00233	Screw, 3/8-16 x 1.000 HHC	1
7	8-33-02145	Hose, Fuel Line (Extractor to Filter)	1
8	2-95-04388	Hose Clamp, .625	8
9	8-87-02101	Fuel Line	2
10	8-33-02172	Hose, Ful Line	1
11	2-00-00235	Screw, 3/8-16 x 1.750 HHC	1
12	7-33-02241	Hose, (Fuel Return)	1
13	2-00-04345	Ty-wrap,	3
14	2-00-03878	Grommet, 1.125 x .625 x .437 x .187	1
15	2-00-04618	Hose Fitting Barbed, Female 45° Swivel 7/16-20	1
16	8-56-05021	Fitting, Tank	1
17	7-87-02160	Fuel Line (Steel Tube)	1
18	8-08-07050	Fuel Line Bumper	2
19	8-08-00710	Fuel Filter Bracket	1
20	8-33-02257	Fuel Line (Pump to Filter)	1
21	7-08-00584	Water Extractor Mount Bracket	1
22	2-00-00209	Screw, 3/8-16 x 1.250 HHC	2
23	2-00-00234	Screw, 3/8-16 x 1.500 HHC	3

P5125/9510

FUEL AND WATER EXTRACTOR (DIESEL) - EXPLODED VIEW

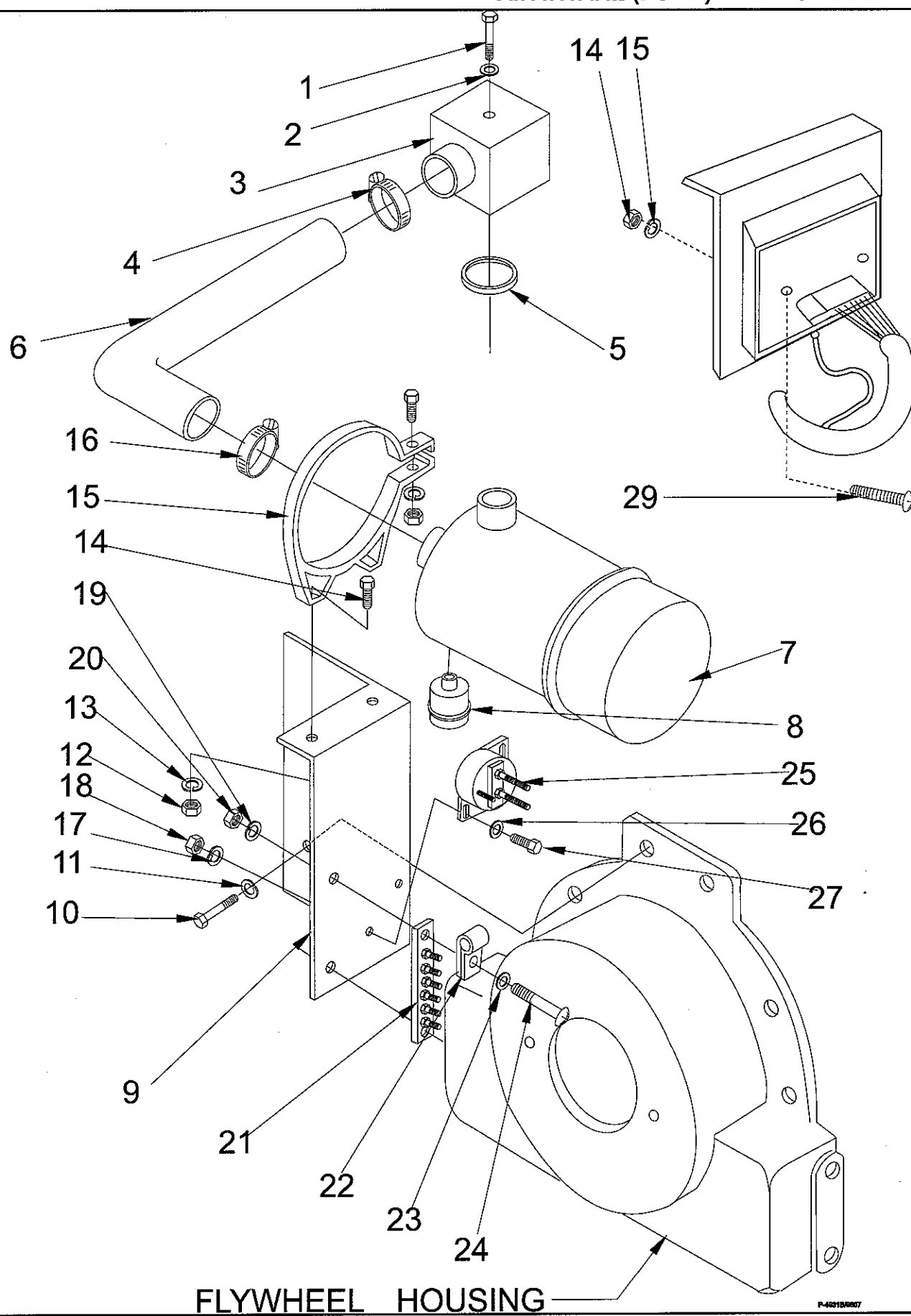


AIR INTAKE (FORD) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-01769	Screw, 1/4-20 x 1.75 HHC	1
2	2-00-04590	Washer, 1/4 Sealing	1
3	7-25-02076	Adapter, Carburetor	1
4	2-00-02217	Clamp	2
5	7-33-02207	Hose - Air Cleaner	1
6	8-24-04093	Bracket, Air Cleaner	1
7	8-24-04100	Air Cleaner Assembly	1
8	2-00-00208	Screw, 5/16-18 x .75 HHC	2
9	8-24-04101	Meter, Engine Cleaner	1
10	2-00-00530	Lockwasher, 5/16 H. S. Med.	3
11	2-00-00585	Nut, Hex. 5/16-18 .500 x .265	2
12	2-00-00594	Nut, Hex. 1/4-20 x .437 x .218	3
13	2-00-00518	Lockwasher, 1/4 H. S. Med.	10
14	2-00-00605	Nut, Hex. MS #10-24 .375 x .125	4
15	2-00-00519	Lockwasher, #10 H. S. Med.	4
16	2-00-00505	Lockwasher, 3/8 Int.	12
17	2-00-05005	Screw, M10 x 1.5 - 30mm HHC	4
18	8-21-04019	Edging	1
19	7-21-04028	Edging	2
20	2-00-03702	Flatwasher, .625 x .281 x .063	9
21	2-00-00221	Screw, 1/4-20 x .75 HHC	4
22	2-00-04210	Clamp	1
23	2-00-04345	Tyrap	10
24	8-06-05006	Strip, Terminal	1
25	2-00-00426	Flatwasher, .50 x .22 x .06	4
26	2-00-00056	Screw, #10-24 x .75 RHM	2
27	7-33-05089	Housing, Flywheel	1

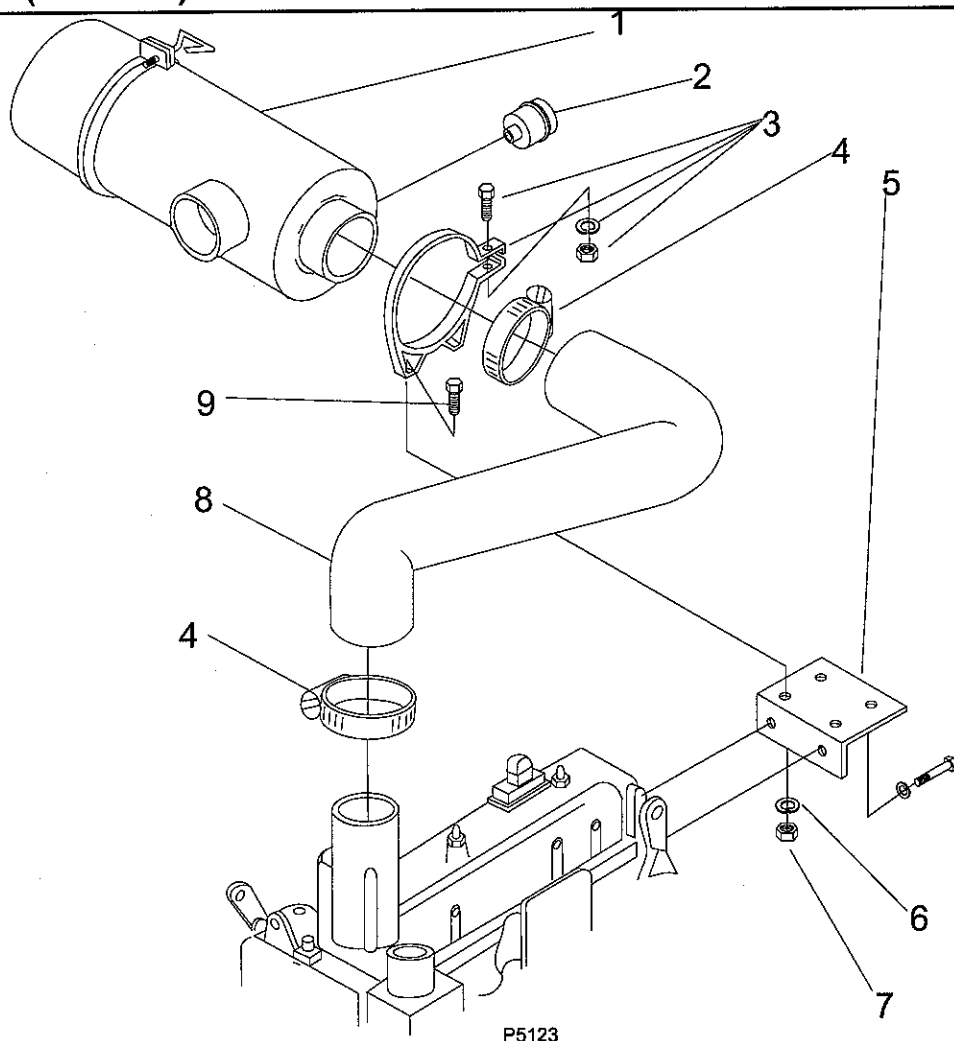
P4931A/9511

AIR INTAKE (FORD) - EXPLODED VIEW



FLYWHEEL HOUSING

AIR INTAKE (PERKINS)

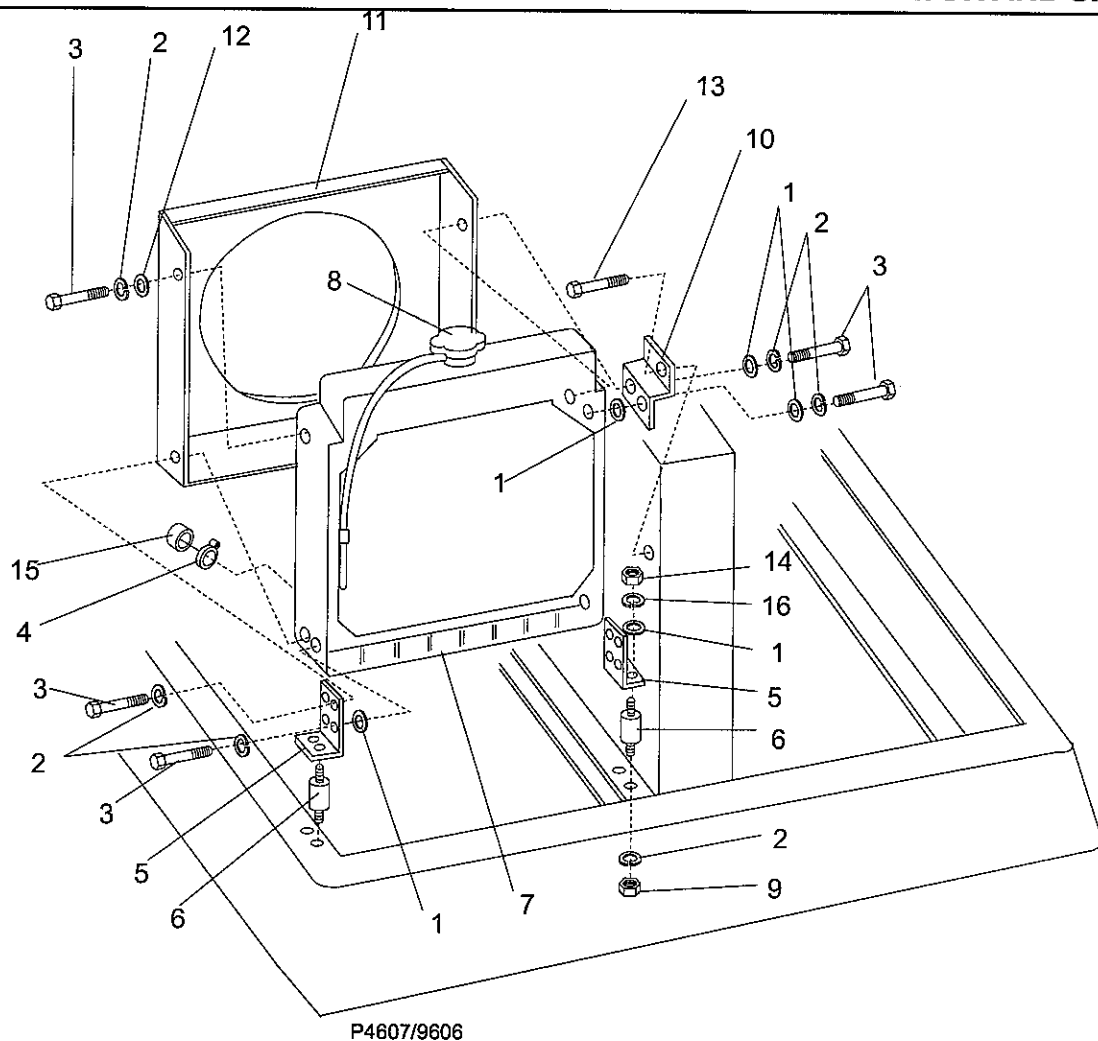


P5123

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-24-04100	Air Cleaner Assembly	1
2	8-24-04136	Filter Service Indicator	1
3	8-24-04093	Air Cleaner Mount Bracket	2
4	2-00-02215	Hose Clamp, .875 - 2.750	1
5	7-08-00582	Air Cleaner Mounting Bracket	1
6	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
7	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .21	4
8	7-33-02236	Hose, Air Intake	1
9	2-00-00221	Screw, 1/4 - 20 x .750 HHC	6

P5123

RADIATOR AND SHROUD

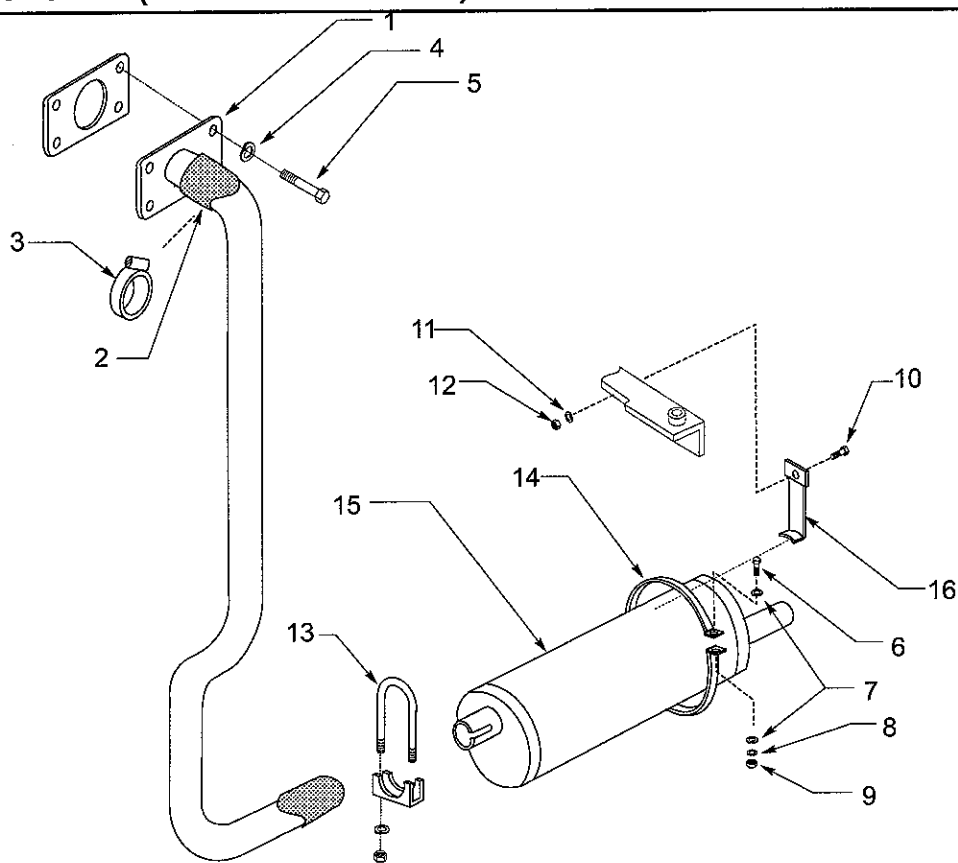


P4607/9606

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-03702	Flat Washer, .625 x .281 x .062	7
2	2-00-00518	Lock Washer, Helical Spring 1/4 Med	16
3	2-00-00220	Screw, 1/4 - 20 x .625 HHC	7
4	2-00-03404	Hose Clamp, 1.062 - 2.000	1
5	7-08-00482	Radiator Mounting Bracket	2
6	8-50-05053	Pad, Radiator Mount	4
7	8-62-01011	Radiator	1
8	8-11-00045	Radiator Cap	1
9	2-00-00501	Lock Washer, 1/4 Int.	4
10	7-08-00483	Radiator Mounting Bracket	1
11	7-72-00007	Fan Shroud (Gas Only)	1
11	7-72-00008	Fan Shroud (Diesel Only)	1
12	2-00-01676	Flat Washer, 1.062 x .265 x .062	1
13	2-00-00209	Screw, 3/8 - 16 x 1.250 HHC	Ref.
14	2-00-00589	Nut, Hex Jam 1/4-20 x .437 x .156	4
15	2-00-04913	Hose Plug	1

P4607

EXHAUST SYSTEM (GAS AND LP - FORD)

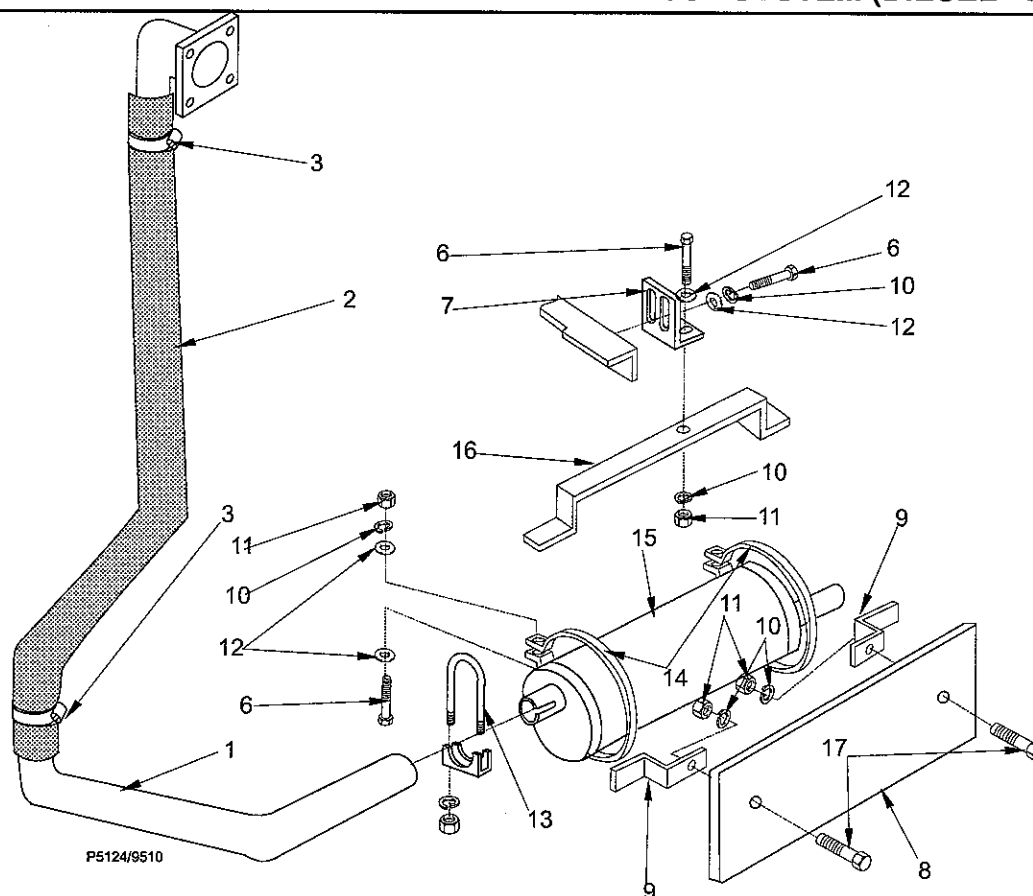


P3602/9511

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-56-04051	Exhaust Pipe	1
2	7-34-09016	Insulating Sleeve	1
3	2-00-02215	Hose Clamp, .875 - 2.750	1
4	2-00-00505	Lock Washer, Helical Spring 3/8 Int.	4
5	Supplied w/ Engine	Screw, M10 x 1.5 25mm MHHC	4
6	2-00-02587	Screw, 1/4 - 20 x 1.250 HHC	5
7	2-00-03702	Flat Washer, 5/8	2
8	2-00-00518	Lock Washer, Helical Spring 1/4 Med	7
9	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .21	3
10	2-00-00233	Screw, 3/8-16 x 1.000	1
11	2-00-02310	Lock Washer, 3/8	1
12	2-00-02360	Nut, 3/8-16	1
13	2-00-04040	Exhaust Clamp	1
14	8-79-00071	Muffler Strap	2
15	7-49-00031	Muffler	1
16	7-31-07017	Mufler Clamp	1

P3602/9511

EXHAUST SYSTEM (DIESEL - PERKINS)



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-56-04046	Exhaust Pipe	1
2	7-34-09015	Insulating Sleeve	1
3	2-00-03404	Hose Clamp	2
4			
5			
6	2-00-00221	Screw, 1/4 - 20 x .750 HHC	6
7	7-31-07020	Muffler Hanger	1
8	7-30-05070	Guard	1
9	7-81-00165	Muffler Guard Support	2
10	2-00-00518	Lock Washer, Helical Spring 1/4 Med	6
11	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .21	4
12	2-00-00407	Flat Washer, .562 x .265 x .062	2
13	2-00-04040	Exhaust Clamp	1
14	7-79-00073	Muffler Strap	2
15	7-49-00031	Muffler	1
15	0780-146	Purifier Muffler Option	1
16	7-08-00667	Muffler Bracket,	1
17	2-00-00220	Screw, 1/4-20 x .63 HHC	2

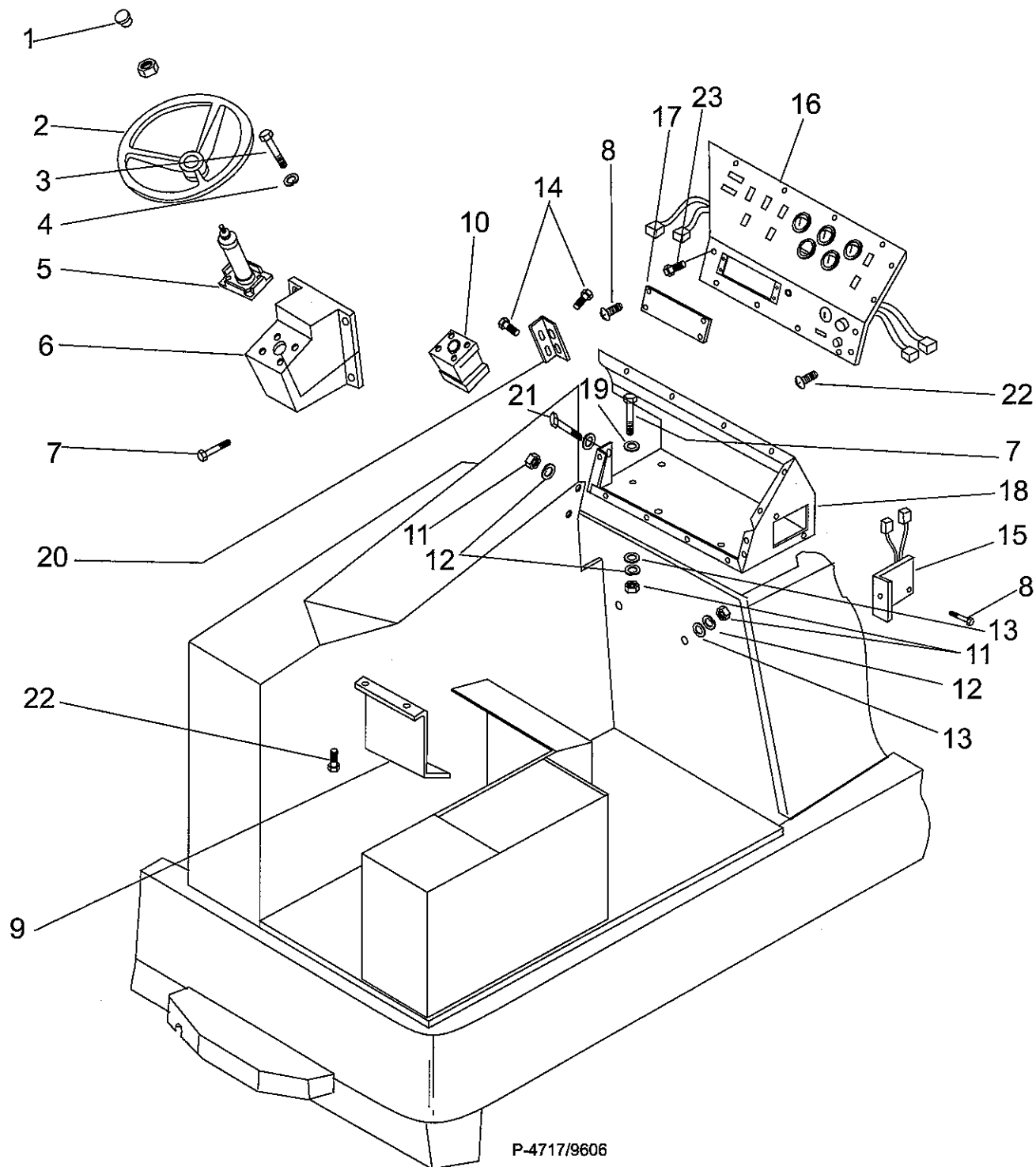
P5124/9510

STEERING AND INSTRUMENT PANEL - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-11-00022	Steering Wheel Cap	1
2	7-89-08041	Steering Wheel	1
3	2-00-00232	Screw, 3/8 - 16 x .750 HHC	4
4	2-00-02310	Lock Washer, Helical Spring 3/8 Med	4
5	7-70-05135	Steering Column Assembly	1
6	7-33-05099	Steering Housing	1
7	2-00-04685	Screw, 1/4-20 x .750 SS	8
8	2-00-03059	Screw, #10 - 24 x .375 THM	6
9	7-16-07283	Panel Cover	1
10	7-60-05010	Steering Control Unit Pump	1
	0880-534	Seal Kit	1
11	2-00-04688	Nut, Hex 1/4 - 20 SS	10
12	2-00-04687	Lock Washer, 1/4 SS	10
13	2-00-04590	Sealing Washer, .63 x .250	8
14	2-00-04876	Screw, 1/4 - 20 x .500 BHS	4
15	7-52-00081	Circuit Breaker Panel	1
16	7-52-00080	Instrument Panel	1
17	7-52-00083	Blank Panel	1
18	7-33-05096	Console Housing	1
19	2-00-03702	Flat Washer	4
20	7-08-00510	Console Support Bracket	1
21	2-00-00407	Flat Washer, .562 x .265 x .062	2
22	2-00-03466	Screw, #10-16 x .500 T/F RH	12

P4717

STEERING AND INSTRUMENT PANEL - EXPLODED VIEW



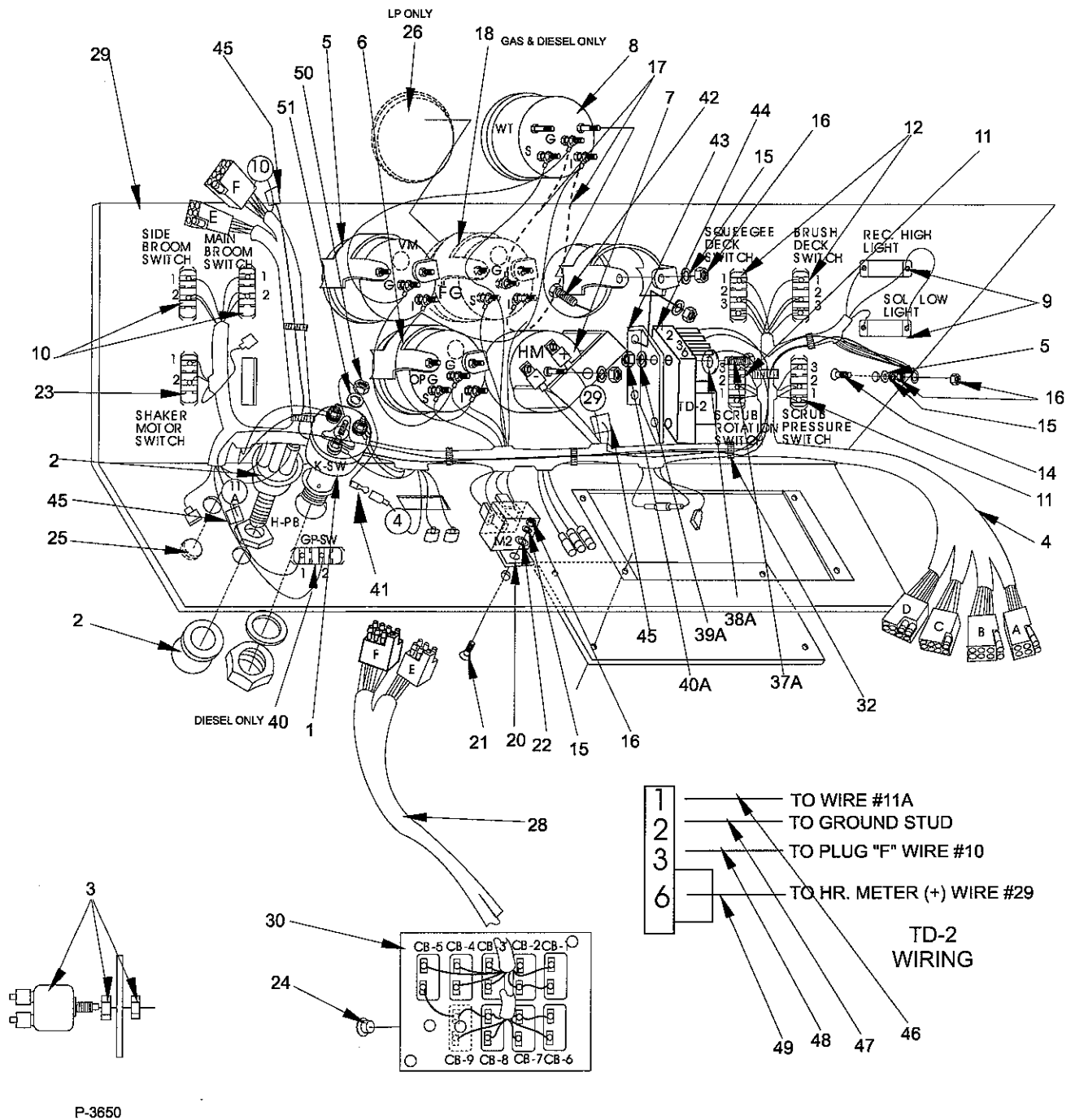
P-4717/9606

INSTRUMENT PANEL - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-82-00026	Key Switch (K-SW)	1
2	8-82-00024	Horn, Push Button (H-PB)	1
3	8-64-00008	Circuit Breaker (15 Amp)	8
4	0795-055	Harness, Instrument Panel (IP-WM)	1
5	8-48-00016	Voltmeter (VM)	1
6	8-48-05027	Gauge, Oil Pressure (OPG)	1
7	8-48-05023	Gauge, Hour Meter (HM)	1
8	8-48-05028	Gauge, Water Temp. (WTG)	1
9	7-40-05028	Light, Rec High - Solution Low	2
10	8-82-00044	Switch, Main Broom & Side Broom	2
11	7-82-00019	Switch, SPST On/Off (L)	2
12	7-82-00020	Switch, SPDT On/On	2
13			
14	2-00-03062	Screw, #10-24 X .625 THM	1
15	2-00-00519	Washer, #10 Lock Med. Hel. Spr.	3
16	2-00-00605	Nut, #10-24 Hex	5
17	8-90-07357	Wire, WTG To FG (Gas & Diesel Only)	2
18	8-48-05032	Gauge, Fuel (Gas & Diesel Only)	1
19			
20	8-64-00012	Relay, Shaker Motor	1
21	2-00-03063	Screw, #10-24 X .750 THM	1
22	2-00-00466	Washer, Flat 5/6 X 13/64 X 1/32	1
23	8-82-00045	Switch, Shaker Motor (SM-SW)	1
24	2-00-04757	Hole Plug	2
25	2-00-04942	Hole Plug (Light SW)	1
26	2-00-04432	Hole Plug (LP Only)	1
27			
28	0795-056	Harness, Circuit Breaker	1
29	7-52-00080	Weldment, Instrument Panel	1
30	7-52-00081	Panel, Circuit Breaker Mount	1
31			
32	2-00-04345	Tye Rap	6
33			
34			
35			
36			
37			
37A	2-00-05060	Screw, 6-32 X 1.250 RHM	2
38			
38A	2-00-00455	Washer, #6 Flat	2
39			
39A	2-00-01499	Washer, #6 Lock	2
40			
40A	2-00-00624	Nut, 6-32 Hex	2
41	7-90-07263	Wire, Harness #4 - K-SW (ST)	1
42	2-00-03061	Screw, #10-24 X .500 THM	2
43	8-08-00748	Bracket, Relay	1
44	8-64-05011	Relay (20 Sec. Time Delay)	1
45	2-0-04479	Connector, 3-Way	3
46	8-90-07422	Wire TD-2 #1 To Wire 11a	1
47	7-90-07324	Wire TD-2 #2 To Gnd. Stud	1
48	7-90-07325	Wire TD-2 #3 To Wire #10	1
49	7-90-07326	Wire TD-2 #6 To Hr. Meter	1
50	2-00-02330	Nut, #10-232 Hex	4
51	2-00-00512	Washer, #10 Int.	5

P3650/9510

INSTRUMENT PANEL - EXPLODED VIEW

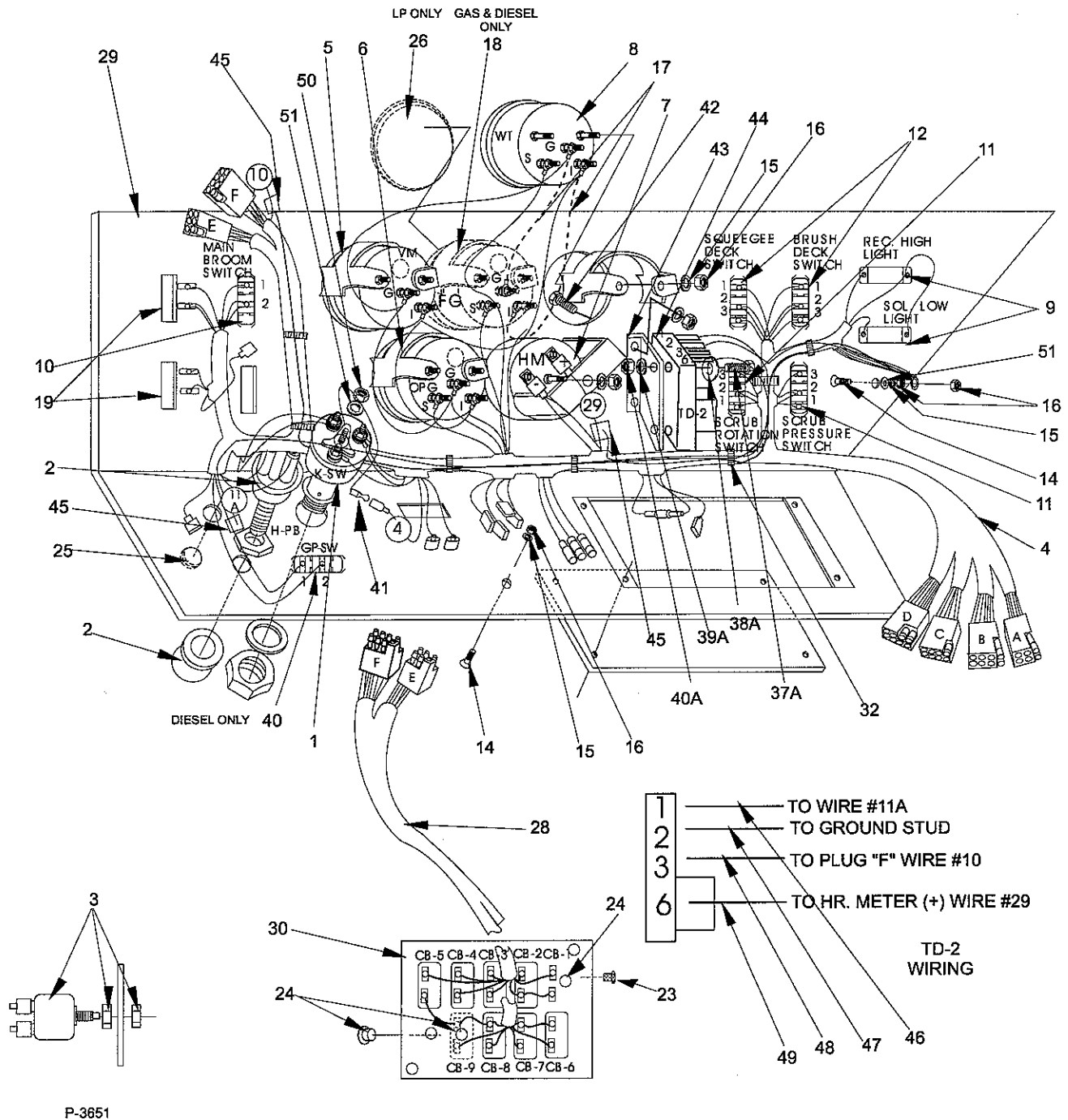


INSTRUMENT PANEL (MANUAL DUMP) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-82-00006	Key Switch (K-SW)	1
2	8-82-00024	Horn, Push Button (H-PB)	7
3	8-64-00008	Circuit Breaker (15 Amp)	8
4	0795-055	Harness, Instrument Panel (IP-WM)	1
5	8-48-00016	Voltmeter (VM)	1
6	8-48-05027	Gauge, Oil Pressure (OPG)	1
7	8-48-05023	Gauge, Hour Meter (HM)	1
8	8-48-05028	Gauge, Water Temp. (WTG)	1
9	7-40-05028	Light, Rec High - Solution Low	2
10	8-82-00044	Switch, Main Broom & Side Broom	1
11	7-82-00019	Switch, SPST On/Off (L)	2
12	7-82-00020	Switch, SPDT On/On	2
13			
14	2-00-03062	Screw, #10-24 X .625 THM	2
15	2-00-00519	Washer, #10 Lock Med. Hel. Spr.	3
16	2-00-00605	Nut, #10-24 Hex	5
17	8-90-07357	Wire, WTG To FG (Gas & Diesel Only)	2
18	8-48-05032	Gauge, Fuel (Gas & Diesel Only)	1
19	2-00-04896	Plug	2
20	8-64-00012	Relay, Shaker Motor	1
21			
22			
23	2-00-04604	Hole Plug	1
24	2-00-04757	Hole Plug	3
25	2-00-04942	Hole Plug (Light SW)	1
26	2-00-04432	Hole Plug (LP Only)	1
27			
28	0795-056	Harness, Circuit Breaker	1
29	7-52-00080	Weldment, Instrument Panel	1
30	7-52-00081	Panel, Circuit Breaker Mount	1
31			
32	2-00-04345	Tye Rap	6
33			
34			
35			
36			
37			
37A	2-00-05060	Screw, 6-32 X 1.250 RHM	2
38			
38A	2-00-00455	Washer, #6 Flat	2
39			
39A	2-00-01499	Washer, #6 Lock	2
40			
40A	2-00-00624	Nut, 6-32 Hex	2
41	7-90-07263	Wire, Harness #4 - K-SW (ST)	1
42	2-00-03061	Screw, #10-24 X .500 THM	2
43	8-08-00748	Bracket, Relay	1
44	8-64-05011	Relay (20 Sec. Time Delay)	1
45	2-0-04479	Connector, 3-Way	3
46	8-90-07422	Wire TD-2 #1 To Wire 11A	1
47	7-90-07324	Wire TD-2 #2 To Gnd. Stud	1
48	7-90-07325	Wire TD-2 #3 To Wire #10	1
49	7-90-07326	Wire TD-2 #6 To Hr. Meter	1
50	2-00-02330	Nut, #10-232 Hex	4
51	2-00-00512	Washer, #10 Int.	5

P3651/9510

INSTRUMENT PANEL (MANUAL DUMP) - EXPLODED VIEW

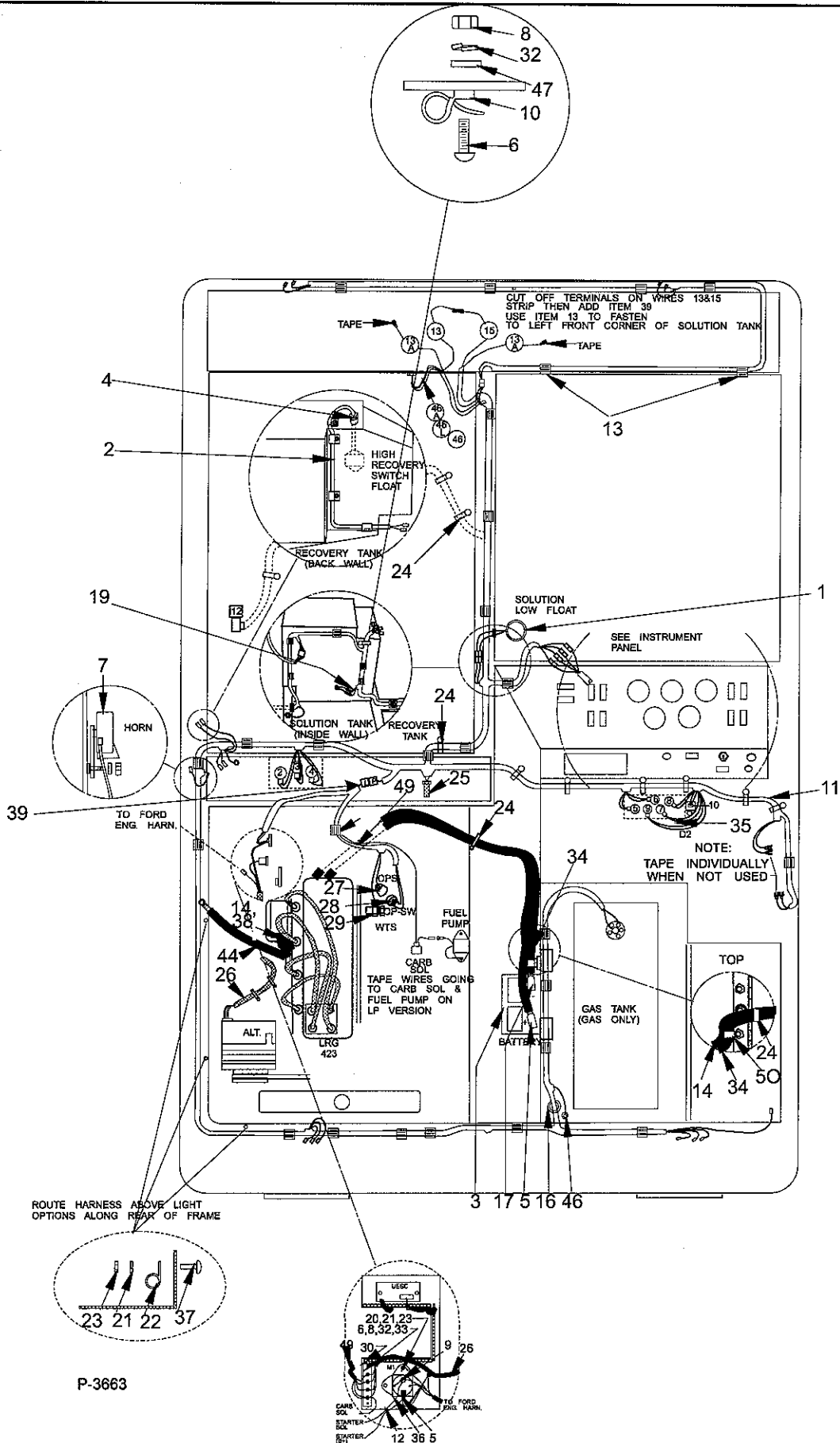


WIRING - FORD 425 (MANUAL DUMP) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	7-82-00017	Float, Switch (Solution Low)	Ref.
2	7-82-00021	Float, Switch (Rec. High)	Ref.
3	0875-008	Battery	Ref.
4	8-09-01083	Bushing, Connector (Liquid Tight)	1
5	2-00-05171	Boot, Protective (Red)	2
6	2-00-03063	Screw, #10-24 X 3/4 THM	4
7	8-32-09013	Horn	Ref.
8	2-00-00605	Nut, #10-24	4
9	2-00-04203	Boot, Protective (Black)	1
10	2-00-04937	Tie, Cable	2
11	0795-082	Harness, Machine	1
12	8-90-07443	Wire, M1 Sol. To Starter (B+)	1
13	7-13-07096	Clamp, Adjustable	38
14	8-90-07167	Cable, Battery (Positive)	1
15			
16	8-09-01081	Bushing, Snap	1
17	2-00-05173	Boot, Protective (Black)	1
18			
19	2-00-04551	Terminal, .156 Bullet	2
20	2-00-00221	Screw, 1/4-20 X 3/4 HHC	4
21	2-00-00518	Washer, 1/4 Lock	7
22	2-00-04602	Clamp	3
23	2-00-00594	Nut, 1/4-20 Hex	7
24	2-00-04345	Tye-Rap	35
25	8-82-00058	Switch, Back-Up	Ref.
26	0895-122	Harness, 425 LRG Engine	1
27	8-69-00005	Sender, Oil Pressure	Ref.
28	8-82-00046	Switch, Oil Pressure	Ref.
29	8-69-00013	Sender, Water Temp.	Ref.
30	2-00-04937	Tie, Cable	1
31	8-06-05006	Block, Terminal	Ref.
32	2-00-00519	Washer, #10 Lock	4
33	2-00-00466	Washer, #10	2
34	7-90-07262	Cable, Battery (Negative)	1
35	0875-087	Diode Assembly	1
36	8-90-07442	Wire, Start 11 Sol To Start Sol.	1
37	2-00-00183	Screw, 1/4-20 X .750 THM	3
38	2-00-04952	Boot, Protective (Red)	1
39	2-00-01128	Butt Splice	1
40			
41			
42			
43			
44	8-90-07328	Cable, Ground	1
45			
46	2-00-00498	Washer, 1/4 Ext. Lock	1
47	2-00-01974	Washer, #10 Sealing	1
48			
49	0895-099	Harness, Engine	1
50	2-00-04873	Clamp	Ref.

P3663

WIRING - FORD 425 (MANUAL DUMP) - EXPLODED VIEW



WIRING - PERKINS (MANUAL DUMP) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	7-82-00017	Float, Switch (Solution Low)	Ref.
2	7-82-00021	Float, Switch (Rec. High)	Ref.
3	0875-057	Battery	Ref.
4	8-09-01083	Bushing, Connector (Liquid Tight)	1
5	2-00-05171	Boot, Protective (Red)	Ref.
6	2-00-00232	Screw, 3/8-16 x .750 HHC	Ref.
7	8-32-09013	Horn	Ref.
8	7-90-07262	Cable, Battery (Negative)	Ref.
9	2-00-04952	Boot, Protective (Red)	1
10	2-00-04937	Tie, Cable	1
11	0795-082	Harness, Machine	1
12	2-00-03060	Screw, #10-24 x .250 THMS	Ref.
13	7-13-07096	Clamp, Adjustable	38
14	7-90-07280	Cable, Battery (Positive)	Ref.
15	2-00-00183	Screw, 1/4-20 Hex	3
16	8-09-01081	Bushing, Snap	1
17	2-00-05173	Boot, Protective (Black)	Ref.
18	2-00-00518	Washer, Lock, 1/4 I.D. Hel. Spr.	3
19	2-00-04551	Terminal, .156 Bullet	2
20	2-00-04363	Screw, M8-1.250 x 20 mm	Ref.
21	2-00-00409	Flat Washer, 5/16	Ref.
22	2-00-04602	Clamp, Adjustable	3
23	2-00-03061	Screw, #10-24 x .500 RHM	Ref.
24	2-00-04345	Tye-Rap	30
25	7-82-00008	Switch, Back-Up	Ref.
26	0895-092	Wire Harness Assembly (D1)	1
27	8-69-00005	Sender, Oil Pressure	Ref.
28	8-82-00046	Switch, Oil Pressure	Ref.
29	8-69-00014	Sender, Water Temperature	Ref.
30	2-00-00056	Screw, #10-24 x .750 THM	Ref.
31	2-00-00233	Screw, 3/8-16 x 1.000 HHC	Ref.
32	2-00-03829	Lock Washer, 3/8 Int./Ext.	Ref.
33	2-00-02360	Nut, 3/8-16 Hex	Ref.
34	2-00-04203	Boot, (Black)	3
35	8-08-00604	Bracket	Ref.
36	2-00-00519	Lock Washer, #10	2
37	2-00-00460	Flat Washer, #10	Ref.
38	0875-087	Diode Assembly (D2)	1
39	8-90-07328	Cable, Ground	1
40	2-00-00498	Washer, Lock Ext.	1
41	2-00-00605	Nut, 10-24 Hex	2
42	2-00-01974	Washer, #10 Sealing	1
43	2-00-01128	Butt Splice	1
44	2-00-00594	Nut, 1/4-20 Hex	3

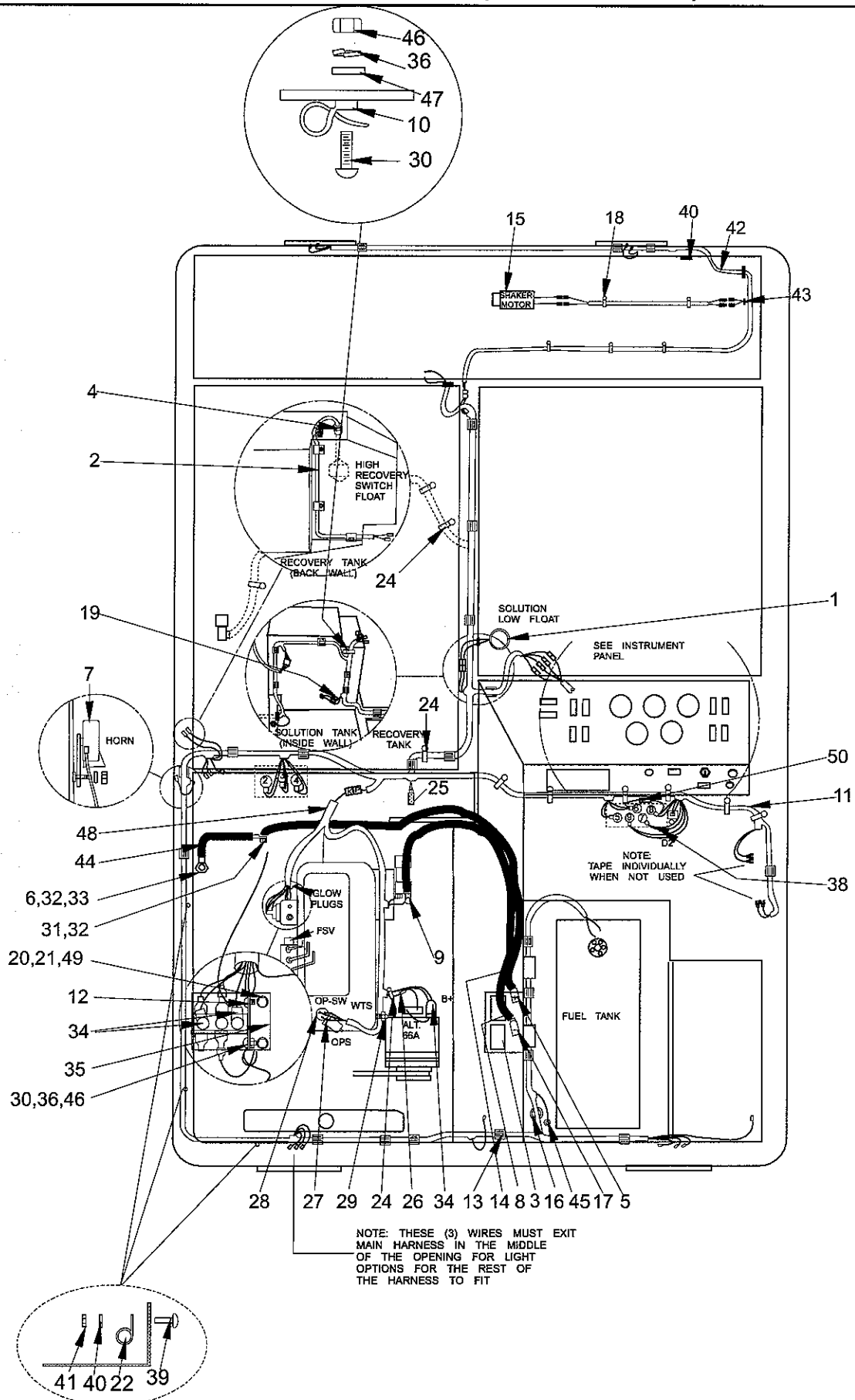
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WIRING - FORD 425 (VARIABLE DUMP) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-82-00017	Float, Switch (Solution Low)	Ref.
2	7-82-00021	Float, Switch (Rec. High)	Ref.
3	0875-008	Battery	Ref.
4	8-09-01083	Bushing, Connector (Liquid Tight)	3
5	2-00-05171	Boot, Protective (Red)	2
6	2-00-03063	Screw, #10-24 X 3/4 THM	4
7	8-32-09013	Horn	Ref.
8	2-00-00605	Nut, #10-24	4
9	2-00-04203	Boot, Protective (Black)	1
10	2-00-04937	Tie, Cable	2
11	0795-082	Harness, Machine	1
12	8-90-07443	Wire, M1 Sol. To Starter (B+)	1
13	7-13-07096	Clamp, Adjustable	33
14	8-90-07167	Cable, Battery (Positive)	1
15	0882-227	Motor, Shaker	Ref.
16	8-09-01081	Bushing, Snap	4
17	2-00-05173	Boot, Protective (Black)	1
18	0775-162	Wire Assy., Hopper (HO-WA)	1
19	2-00-04551	Terminal, .156 Bullet	2
20	2-00-00221	Screw, 1/4-20 X 3/4 HHC	4
21	2-00-00518	Washer, 1/4 Lock	7
22	2-00-04602	Clamp	3
23	2-00-00594	Nut, 1/4-20 Hex	7
24	2-00-04345	Tye-Rap	35
25	8-82-00058	Switch, Back-Up	Ref.
26	0895-122	Harness, 423 LRG Engine	1
27	8-69-00005	Sender, Oil Pressure	Ref.
28	8-82-00046	Switch, Oil Pressure	Ref.
29	8-69-00013	Sender, Water Temp.	Ref.
30	2-00-04937	Tie, Cable	1
31	8-06-05006	Block, Terminal	Ref.
32	2-00-00519	Washer, #10 Lock	4
33	2-00-00466	Washer, #10	2
34	7-90-07262	Cable, Battery (Negative)	1
35	0875-087	Diode Assembly	1
36	8-90-07442	Wire, Start 11 Sol To Start Sol.	1
37	2-00-00183	Screw, 1/4-20 X .750 THM	3
38	2-00-04952	Boot, Protective (Red)	1
39			
40			
41			
42			
43			
44	8-90-07328	Cable, Ground	1
45	8-21-04015	Edging	1
46	2-00-00498	Washer, 1/4 Ext. Lock	1
47	2-00-01974	Washer, #10 Sealing	1
48	2-00-04721	Grommet	2
49	0895-099	Harness, Engine	1
50	2-00-04873	Clamp	Ref.

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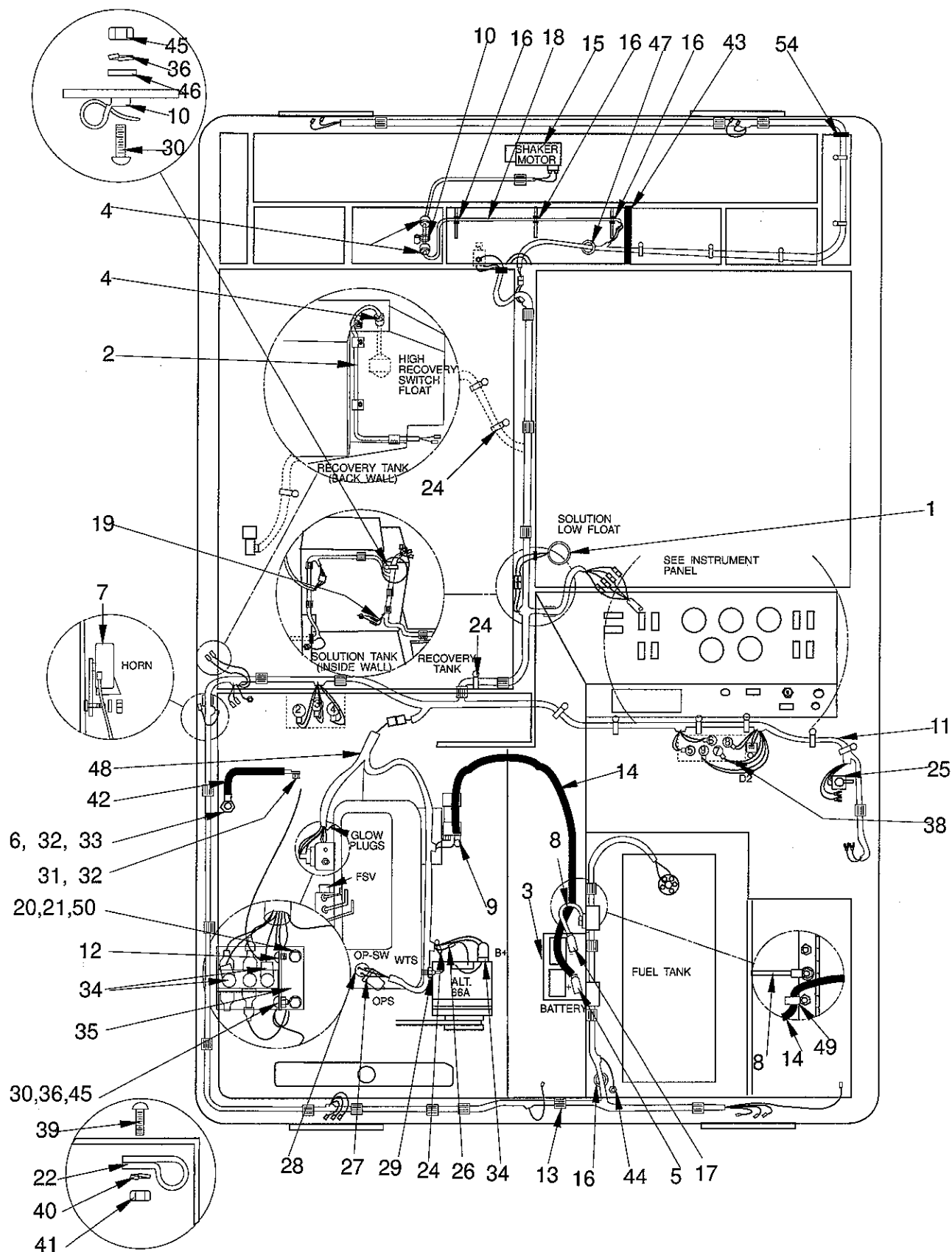
WIRING - FORD 425 (VARIABLE DUMP) - EXPLODED VIEW



WIRING (DIESEL) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	7-82-00017	Float, Switch (Solution Low)	Ref.
2	7-82-00021	Float, Switch (Rec. High)	Ref.
3	0875-057	Battery	Ref.
4	8-09-01083	Bushing, Connector (Liquid Tight)	3
5	2-00-05171	Boot, Protective (Red)	Ref.
6	2-00-00232	Screw, 3/8-16 x .750 HHC	Ref.
7	8-32-9013	Horn	Ref.
8	7-90-07262	Cable, Battery (Negative)	Ref.
9	2-00-04952	Boot, Protective (Red)	1
10	2-00-04937	Tie, Cable	2
11	0795-082	Harness, Machine	1
12	2-00-03060	Screw, #10-24 x .250 THMS	Ref.
13	7-13-07096	Clamp, Adjustable	33
14	7-90-07280	Cable, Battery (Positive)	Ref.
15	0882-027	Shaker Motor	Ref.
16	8-09-01081	Bushing, Snap	4
17	2-00-05173	Boot, Protective (Black)	Ref.
18	0775-162	Hopper Wire Assembly (HO-WA)	1
19	2-00-04551	Terminal, .156 Bullet	2
20	2-00-04363	Screw, M8-1.250 x 20 mm	Ref.
21	2-00-00409	Flat Washer, 5/16	Ref.
22	2-00-04602	Clamp, Adjustable	3
23			
24	2-00-04345	Ty-Rap	30
25	7-82-00008	Switch, Back-Up	Ref.
26	0895-092	Wire Harness Assembly (D1)	1
27	8-69-00005	Sender, Oil Pressure	Ref.
28	8-82-00046	Switch, Oil Pressure	Ref.
29	8-69-00014	Sender, Water Temperature	Ref.
30	2-00-00056	Screw, #10-24 x .750 THM	Ref.
31	2-00-00233	Screw, 3/8-16 x 1.000 HHC	Ref.
32	2-00-03829	Lock Washer, 3/8 Int./Ext.	Ref.
33	2-00-02360	Nut, 3/8-16 Hex	Ref.
34	2-00-04203	Boot, (Black)	3
35	8-08-00604	Bracket	Ref.
36	2-00-00519	Lock Washer, #10	2
37			
38	0875-087	Diode Assembly (D2)	1
39	2-00-00183	Screw, 1/4-20 x .750 THM	3
40	2-00-00518	Lock Washer, 1/4 I.D. Helical Spring	3
41	2-00-00594	Nut, 1/4-20 Hex	3
42			
43			
44			
45			
46			
47			
48			
49	8-90-07328	Cable, Ground	Ref.
50	8-21-04015	Edging	1
51	2-00-00498	Lock Washer, 1/4 Ext.	1
52	2-00-00605	Nut, #10-24 Hex	2
53	2-00-01974	Washer, #10 Sealing	1
54	2-00-04721	Grommet	2
55	0895-105	Harness, Engine	1
56			
57	2-00-00530	Lock Washer, 5/16	Ref.

WIRING (DIESEL) - EXPLODED VIEW



DECALS - PARTS LIST

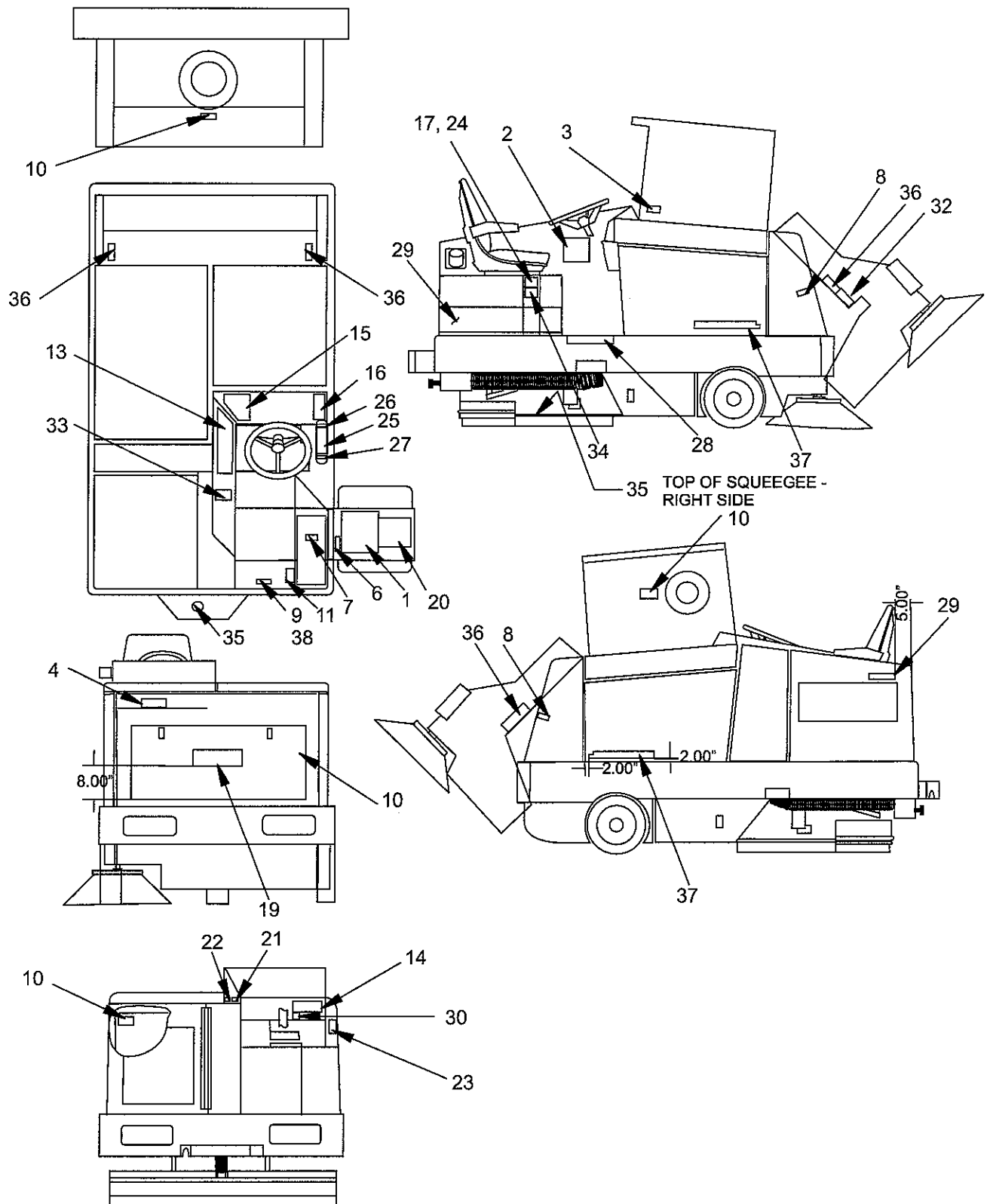
<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	7-18-00148	Decal, Maintenance Chart	1
2	8-18-00396	Decal, Warning - General	1
3			
4	7-18-00081	Decal, Fill Level - Solution Tank	1
5	8-18-00099	Decal, Warning - Combustibles	1
6	8-18-00313	Decal, Seat Adjustment	1
7	8-18-00306	Decal, Hydraulic Fluid Only	1
8#	8-18-00305	Decal, Pinch Point	2
9	8-18-00310	Decal, Gas Only	1
10	8-18-00399	Decal, Warning - Fan & Belt	2
11	8-18-00277	Decal, Warning - Fire Hazard	1
12			
13*	7-18-00213	Decal, Levers	1
14	7-18-00205	Decal, Ignition	1
15	7-18-00207	Decal, Scrubbing	1
16	7-18-00210	Decal, Sweeping	1
17	8-50-00014	Serial Tag Number	1
18	7-18-00264	Decal, A-L	1
19	8-18-00454	Decal, ALTO	1
20	7-18-00149	Decal, Maintenance Diagram	1
21*	7-18-00216	Decal, Choke	1
22	7-18-00214	Decal, Throttle	1
23#	7-18-00215	Decal, Side Broom	1
24	2-00-04115	Rivet	2
25	8-50-05022	Pad, Foot Pedal	1
26	7-40-00005	Decal, Forward	1
27	7-40-00006	Decal, Reverse	1
28	7-50-05136	Pad, Edge	1
29	7-18-00125	Decal, 7700	2
30	8-18-00395	Decal, Key Switch Warning	1
31			
32#	8-18-00398	Decal, Warning - Hopper	1
33	8-18-00355	Decal, Diesel Starting	1
34	7-18-00228	Decal, Patent	1
35	7-18-00236	Decal, No Step	3
36	8-18-00402	Decal - Pinch Point	4
37	8-18-00452	Decal A-L	2
38	8-18-00311	Decal, Diesel Only	1

*Gas Machines Only

^Diesel Machines Only

#Not Used on Manual Dump Machines

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NOTES

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ELECTRICAL SCHEMATIC, DIESEL (MANUAL DUMP)

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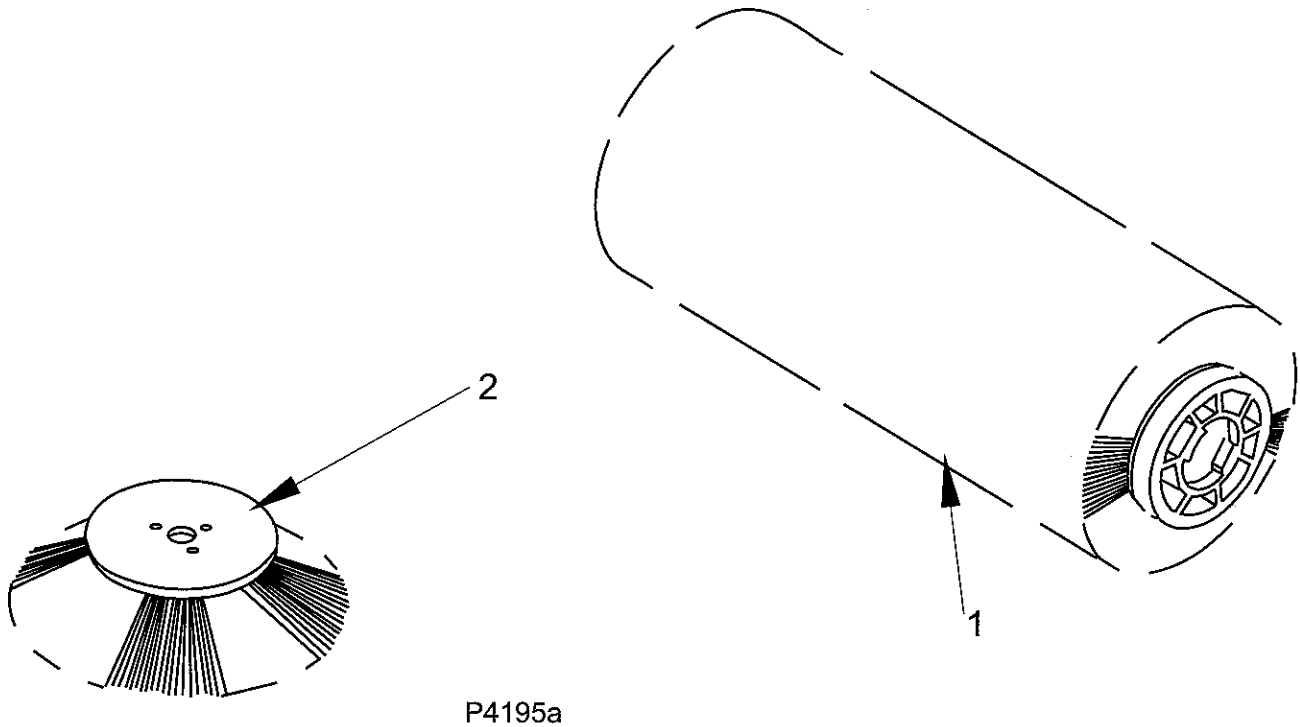
CONNECTION DIAGRAM, GAS (VARIABLE & LOW DUMPS) 3-7 P3658

CONNECTION DIAGRAM, DIESEL, VARIABLE & LOW DUMPS) 3-8 P3656

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CONNECTION DIAGRAM, DIESEL (MANUAL DUMP)

3-10 P3653



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-08-03180	Proex and Wire	1
1	8-08-03190	Proex	1
1	8-08-03191	Natural Fiber and Wire	1
1	8-08-03192	Natural Fiber	1
1	8-08-03193	Nylon	1
1	8-08-03194	Crimped Wire	1
1	8-08-03195	Nylon (Herringbone)	1
1	8-08-03196	Nylon, High Density	1
1	8-08-03197	Fiber, High Density	1
1	8-08-03198	Fiber and Wire, High Density	1
2	8-08-03176	Black Prolene	1
2	8-08-03177	Nylon	1

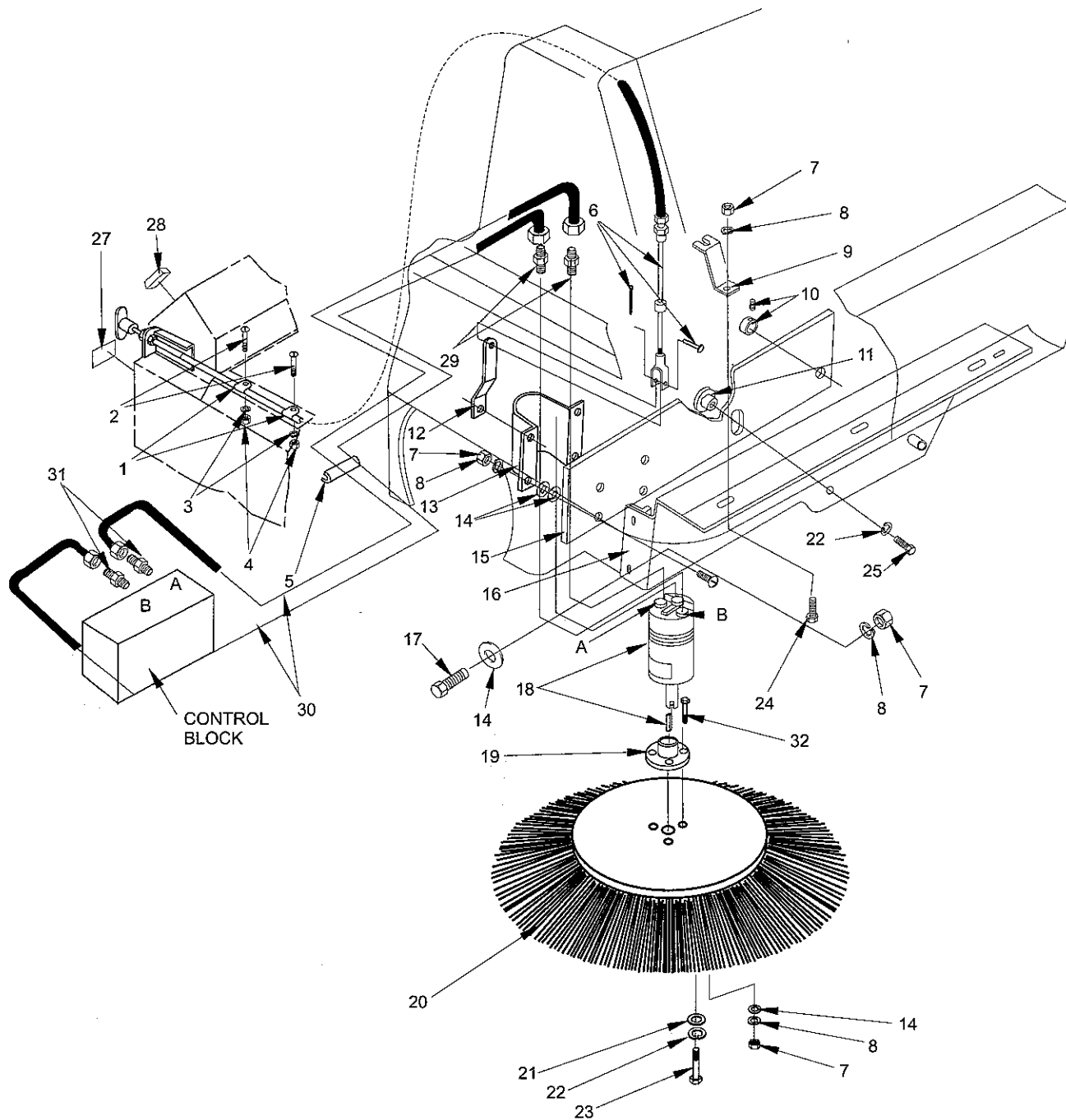
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SIDE BROOM OPTION (MANUAL DUMP) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-04210	Clamp	2
2	2-00-00049	Screw, #10-24 x .500	2
3	2-00-00512	Lock Washer, #10	2
4	2-00-00605	Nut, Hex #10-24	2
5	8-21-04030	Edging	1
6	7-10-00020	Cable	1
7	2-00-00585	Nut, Hex 5/16-18	12
8	2-00-00530	Lock Washer, Helical Spring 5/16	12
9	7-08-00705	Cable Bracket	1
10	8-15-01003	Collar, 3/4 ID w/setscrew	1
11	7-09-01134	Bushing, 3/8-16 Thd.	1
12	7-79-00060	Lift Cable Stray	1
13	7-13-07105	Motor Clamp	1
14	2-00-00409	Flat Washer, 5/16	13
15	7-03-04129	Side Broom Arm	1
16	7-08-00717	Side Broom Bracket	1
17	2-00-03029	Screw, 5/16-18 x 1.00 HSFHC	4
18	0885-061	Hydraulic Broom Drive Motor, w/ Key	1
19	7-25-06024	Adapter Flange	1
20	8-08-03107	Side Broom	1
21	2-00-00447	Flat Washer 1.25 x .25	1
22	2-00-00518	Lock Washer, 1/4	1
23	2-00-03537	Screw, 1/4-28 x 2.000 HHC	1
24	2-00-03564	Screw, 1/4-28 x 1.000	5
25	2-00-02310	Lock Washer, Helical Spring 3/8	1
26	2-00-00232	Screw, 3/8-16 x .75- HHC	1
27	7-18-00215	Side Broom Label	1
28	8-82-00044	Switch	1
29	2-00-04918	Fitting	2
30	8-33-02216	Hose, ORS-4-Str. Ends	2
31	2-00-04895	Fitting	2
32	2-00-00218	Screw, 5/16-18 x 2.00 HHC	3

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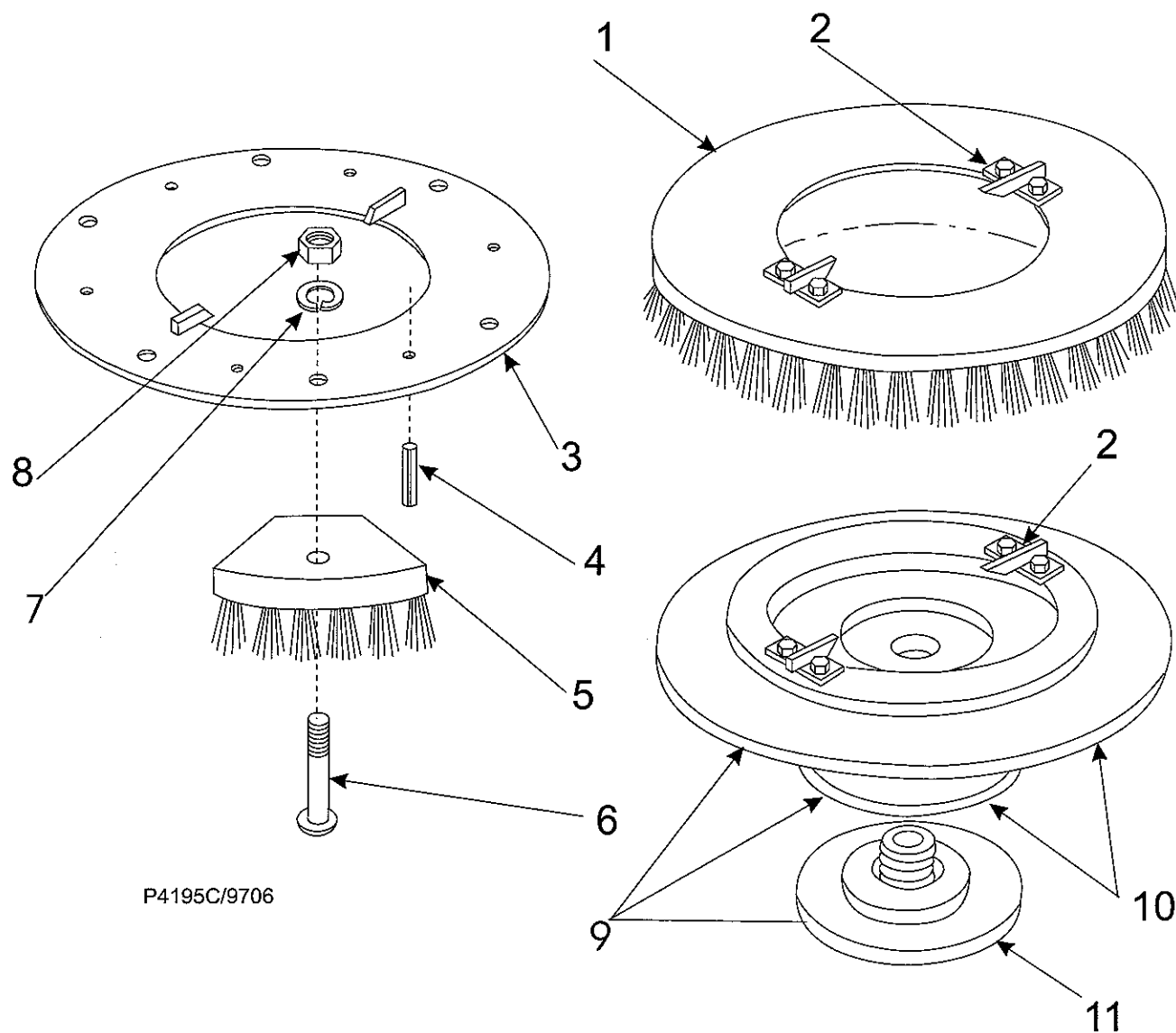
SIDE BROOM OPTION (MANUAL DUMP) - EXPLODED VIEW



BRUSH OPTIONS - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
Disc Brushes			
1	7-08-03174	Amergrit	3
1	7-08-03175	Bassine	3
1	7-08-03176	Nylon (Black)	3
1	7-08-03177	Amerfil (.025)	3
1	7-08-03178	Amerfil (.040)	3
1	7-08-03179	Straight Wire	3
1	7-08-03180	Wire / Amerfil	3
1	7-08-03206	Super Grit (60/45/25) Brown	3
1	7-08-03242	Soft Nylon	3
2	7-44-05026	Lug	2
Sectional Brushes			
3	0760-283	Brush Plate Attachments	3
4	2-00-04221	Pin, Spring	6
Wood Back			
5	7-08-03070	Bassine	18
5	7-08-03071	Straight Wire	18
5	7-08-03075	Nylon (Black)	18
5	7-08-03098	Amerfil (.025)	18
5	7-08-03117	Amerfil (.040)	18
5	7-08-03144	Amergrit	18
5	7-08-03207	Super Grit	18
Plastic Back			
5	7-08-03192	Bassine	18
5	7-08-03193	Straight Wire	18
5	7-08-03194	Nylon (Black)	18
5	7-08-03195	Amerfil (.025)	18
5	7-08-03196	Amerfil (.040)	18
5	7-08-03197	Amergrit	18
6	2-00-02706	Screw, 1/4 - 20 x 1.000 HHM	6
7	2-00-00518	Washer, Helical Spring 1/4 Med	6
8	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	6
Pad Driver Assembly			
2	7-44-05026	Lug	2
9	0772-065	Pad Driver (Right Hand Thread - Black)	2
10	7-32-03015	Center-Lok II for Clockwise Rotation	2
11	7-32-03016	Holder for Clockwise Rotation	2
9	0772-066	Pad Driver (Left Hand Thread - Red)	1
10	7-32-03013	Center-Lok II for Counterclockwise Rotation	1
11	7-32-03014	Holder for Counterclockwise Rotation	1

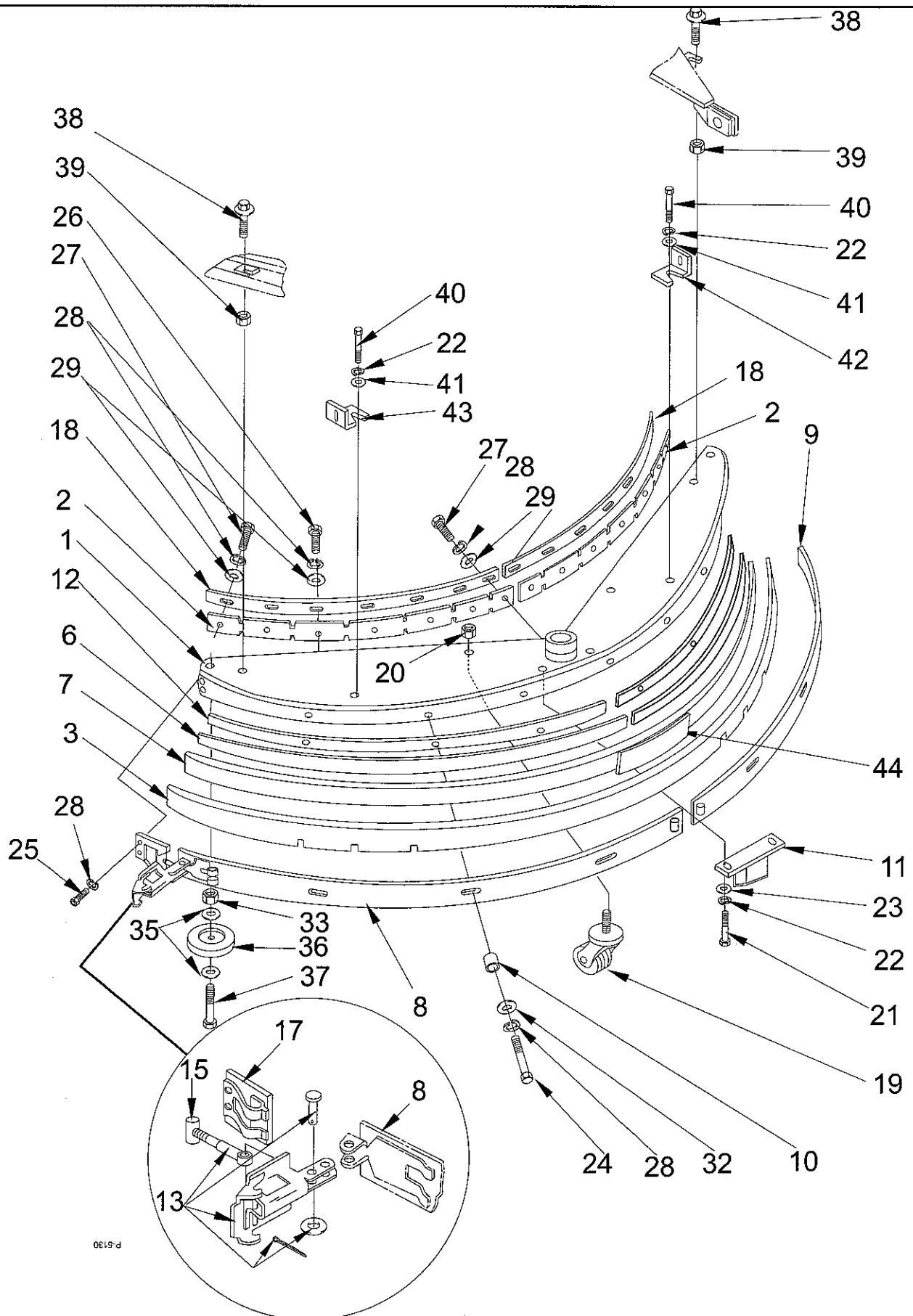
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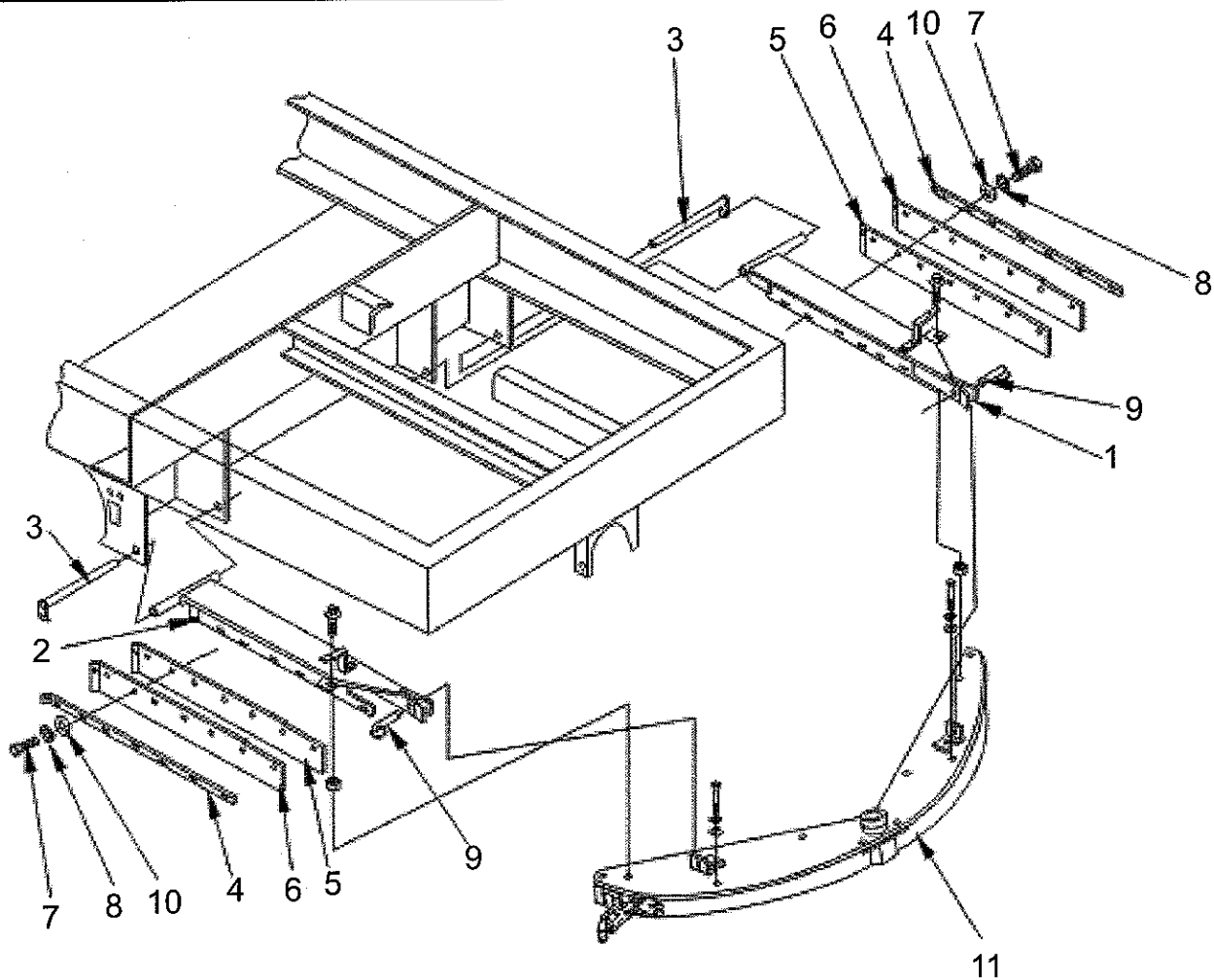
CENTER SQUEEGEES - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-86-08020	Wide Aisle Squeegee Tool	1
	7-86-08019	Narrow Aisle Squeegee Tool	1
2	7-77-00071	Wide Aisle Inner Squeegee Rubber	2
	7-77-00067	Narrow Aisle Inner Squeegee Rubber	2
3	7-77-00068	Back Up Squeegee Rubber	1
4			
5			
6	7-50-05080	Squeegee Grip Pad	2
7	7-77-00057	Outer Squeegee Rubber (Gum Rubber) - Standard	1
8	7-79-00042	Left Hand Squeegee Strap	1
9	7-79-00043	Right Hand Squeegee Strap	1
10	7-75-01044	Spacer, .375 x .250 x .500	6
11	7-25-02031	Squeegee Fitting	1
12	7-75-01073-1	Squeegee Position Spacer	2
13	7-41-00009	Latch Handle Assembly	2
14			
15	7-55-08100	Draw Hook Pin	2
16			
17	7-08-00395-1	Squeegee Assembly Bracket	2
18	7-79-00044	Squeegee Strap	2
19	7-89-08033	Wheel Caster	2
20	2-00-00615	Nut, Hex 5/8 - 11 x .937 x .546	2
21	2-00-00208	Screw, 5/16 - 18 x .750 HHC	2
22	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
23	2-00-00409	Flat Washer, .687 x .343 x .062	2
24	2-00-00205	Screw, 1/4 - 20 x 1.000 HHC	6
25	2-00-03038	Screw, 1/4 - 20 x .500 HSHC	4
26	2-00-00248	Screw, 1/4 - 20 x .750 HHC	10
27	2-00-00251	Screw, 1/4 - 20 x .500 HHCS	4
28	2-00-00518	Lock Washer, Helical Spring 1/4 Med	24
29	2-00-03702	Flat Washer, .625 x .281 x .062	14
30			
31			
32	2-00-00416	Flat Washer, .750 x .265 x .062	6
33	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	2
34			
35	2-00-00402	Flat Washer, .750 x .390 x .093	4
36	2-14-00184	Wheel	2
37	2-00-00216	Screw, 3/8 - 16 x 2.000 HHC	2
38	7-80-05069	Locator Stud	2
39	2-00-00596	Nut, Hex 1/2-13 x .750 x .437	2
40	2-00-01255	Screw, 5/16-18 x .875 HHC	2
41	2-95-04689	Flat Washer, 2.000 x .406 x .162	2
42	7-08-00497	Right Hand Squeegee Lift Bracket	1
43	7-08-00498	Left Hand Squeegee Lift Bracket	1
44	8-50-05022	Pad, Squeegee Grip	2
	0760-358	Narrow Aisle Squeegee Deck Sub	
	0760-358-1	Wide Aisle Squeegee Deck Sub	

CENTER SQUEEGEES - EXPLODED VIEW



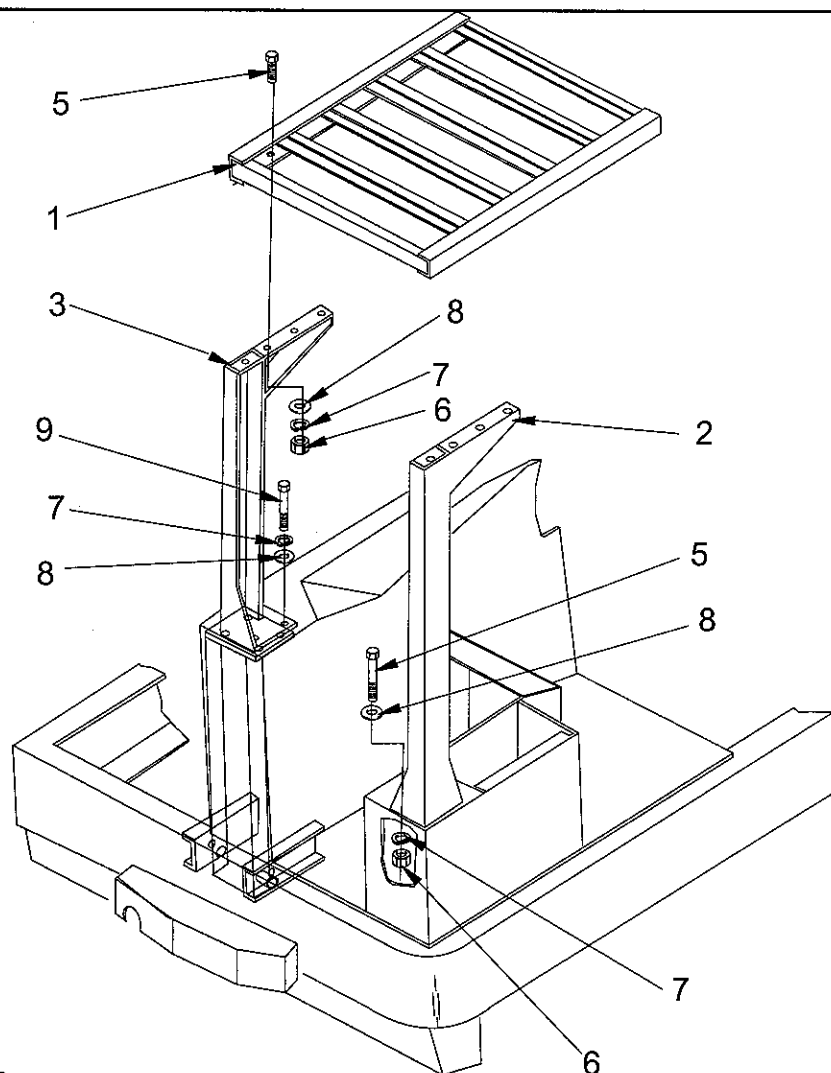
SIDE SQUEEGEES



OPTION NO. 0780-145 NARROW AISLE SQUEEGEE
OPTION NO. 0780-148 WIDE AISLE SQUEEGEE

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-42-05097	Right Hand Link - Wide Aisle	1
	7-42-05112	Right Hand Link - Narrow Aisle	1
2	7-42-05096	Left Hand Link - Wide Aisle	1
	7-42-05113	Left Hand Link - Narrow Aisle	1
3	7-55-08120	Squeegee Lift Pin	2
4	7-79-00059-1	Strap	2
5	7-77-00069	Side Squeegee Rubber	2
6	7-77-00070	Side Squeegee Back-Up Rubber	2
7	2-00-02587	Screw, 14 - 20 x 1.250 HHC	16
8	2-00-00518	Lock Washer, Helical Spring 1/4 Med	16
9	7-55-08121	Lift Pin	2
10	2-00-03702	Flat Washer, .625 x .281 x .062	16
11	0760-358-1	Squeegee Sub-Assembly, Wide Aisle	1
	0780-358	Squeegee Sub-Assembly, Narrow Aisle	1

P5132/9601

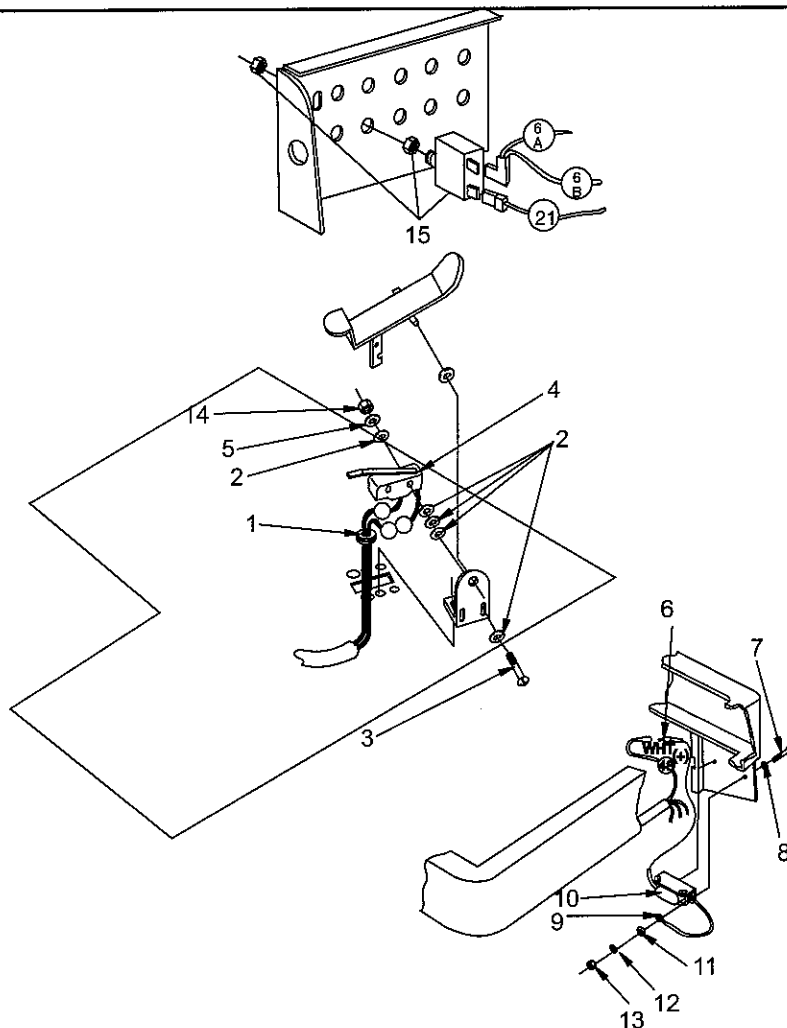


P4621A/9703

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-30-05086	Guard (Weldment)	1
2	7-81-00120	Support (Weldment)	1
3	7-81-00121	Support-(Weldment)	1
4	2-00-00240	Screw, 1/2 - 13 x 1.250 HHC	4
5	2-00-00239	Screw, 1/2 - 13 x 1.000 HHC	12
6	2-00-02352	Nut, Hex 1/2 - 13 x .875 x .484	12
7	2-00-02312	Lock Washer, Helical Spring 1/2 Med	16
8	2-00-01444	Flat Washer, .750 x .520 x .062	16
9	7-81-00137	Center Backbone Support (Weldment)	1
10	2-00-00216	Screw, 3/8-16 x 2.000 HHC	1
11	2-00-00402	Flat Washer, .750 x .390 x .093	2
12	2-00-02310	Lock Washer, Helical Spring, 3/8 Med	2
13	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	2
14	2-00-00234	Screw, 3/8-16 x 1.500 HHC	1

P4621/9511

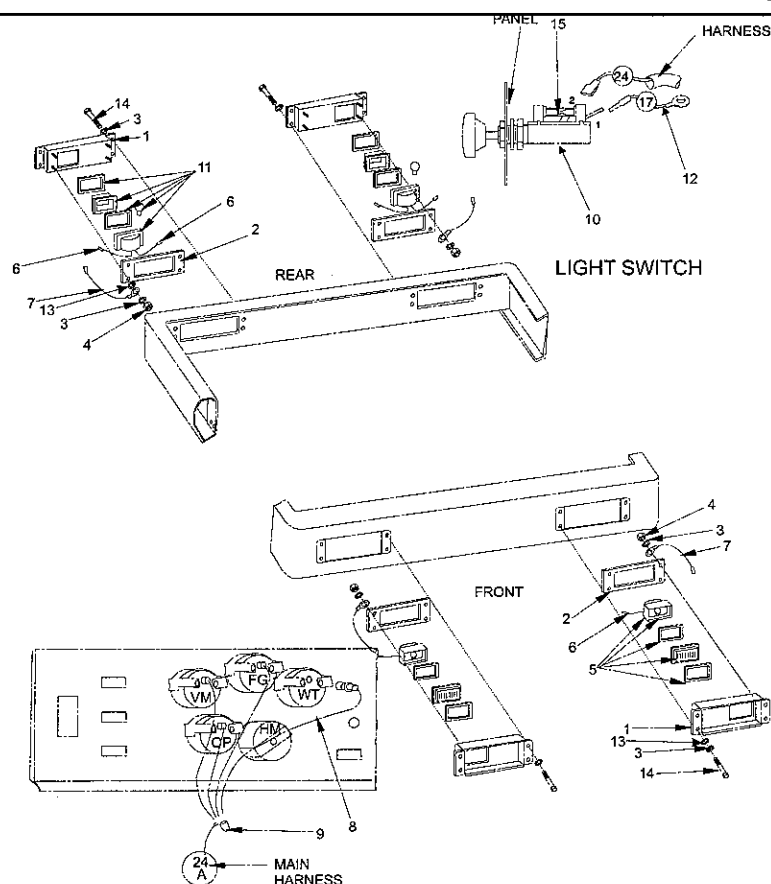
BACK-UP ALARM OPTION



OPTION NO. 0780-190

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-00491	Grommet	1
2	2-00-00455	Flat Washer, .375 x .156 x .062	10
3	2-00-05119	Screw, #6-32 x 1.50 RHMS	2
4	7-82-00008	Switch	1
5	2-00-01499	Lock Washer, #6 -32 Helical Spring	1
6	2-00-04578	Male Bullet Plug	1
7	2-00-00221	Screw, 1/4 - 20 x .750 HHC	2
8	2-00-00501	Lock Washer, 1/4 Int.	1
9	2-00-00828	Terminal	1
10	8-32-09009	Backup Alarm	1
11	2-00-00409	Flat Washer, .687 x .343 x .062	2
12	2-00-00518	Lock Washer, Helical Spring 1/4 Int.	2
13	2-00-00594	Nut, Hex 1/4 - 20	2
14	2-00-00624	Nut, #6 - 32 Hex	2
15	8-64-00008	Circuit Breaker 15 AMP	1

P4899/9511



P4822/9609

HEADLIGHTS/TAILLIGHTS/INSTRUMENT LIGHTS: 0880-351
HEADLIGHTS/TAILLIGHTS/BRAKE LIGHTS/INSTRUMENT LIGHTS: 0880-354

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-08-00745	Light Bracket with Knockouts	4
2	8-08-00599	Backing Plate	4
3	2-00-00501	Lock Washer, 1/4 Int.	32
4	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	16
5	8-40-05028	Headlight	2
6	2-00-04578	Male Bullet Plug	4
7	8-90-07358	Ground Wire	4
8	8-40-05030	Instrument Light and Lead	4
9	2-00-04588	Wire Nut	1
10	8-82-00027	Light Switch, Push/Pull	1
11	8-40-05029	Taillight	2
12	7-90-07229	Wire	1
13	2-00-00409	Flat Washer, .687 x .343 x .062	2
14	2-00-04876	Screw, 1/4 - 20 x .500 BHS	16
15	8-28-05011	Fuse, FU-1 15 Amp	1

P4822/9510

TURN SIGNAL - PARTS LIST

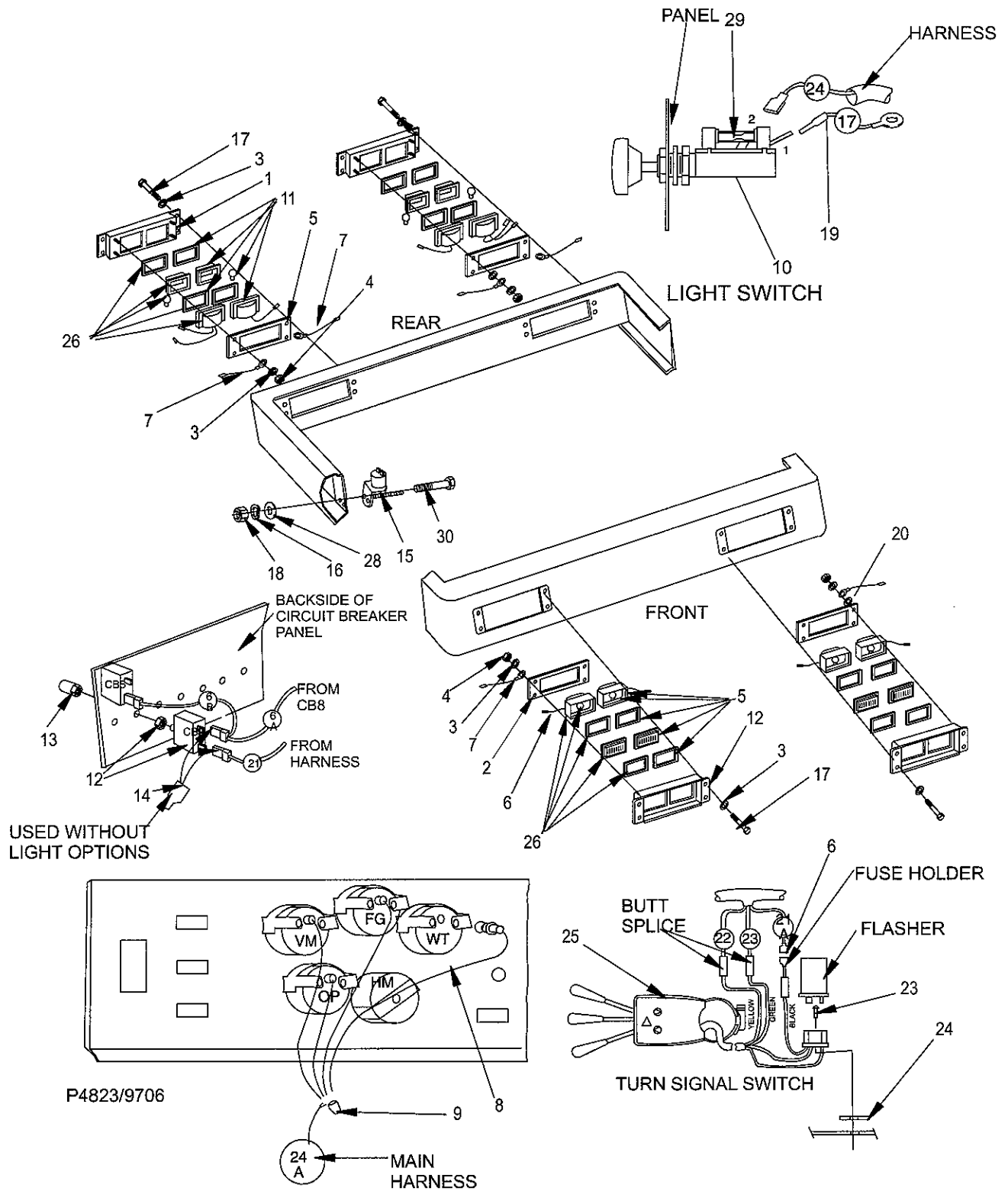
HEADLIGHTS/TAILLIGHTS/INSTRUMENT LIGHTS/ BRAKE LIGHTS & TURN SIGNALS: 0880-355

HEADLIGHTS / TAILLIGHTS / BRAKE LIGHTS & TURN SIGNALS

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-08-00745	Knockout Light Bracket	4
2	8-08-00599	Backing Plate	4
3	2-00-00501	Lock Washer, 1/4 Int.	32
4	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	16
5	8-40-05028	Head Light	2
6	2-00-04578	Bullet Plug (Male)	10
7	8-90-07358	Ground Wire	8
8	8-40-05030	Instrument Light and Lead	4
9	2-00-04588	Wire Nut	1
10	8-82-00027	Light Switch, Push/Pull	1
11	8-40-05029	Tail Light / Brake Light	2
12	8-64-00008	Circuit Breaker (15 Amp)	1
13	8-11-00044	Boot	1
14	8-11-00015	Terminal	1
15	8-82-00039	Switch, Brake	1
16	2-00-00519	Lock Washer, # 10 Hel.	2
17	2-00-04876	Screw, 1/4 - 20 x .500 BHS	16
18	2-00-00605	Nut, Hex MS 1/4 - 20 x .437 x .187	2
19	7-90-07229	Wire	1
20	2-00-00409	Flat Washer, .687 x .343 x .062	2
21			
22			
23	2-00-01994	Screw, # 8 - - 15 x .750 T/F RH	1
24	2-14-03197	Rubber Washer, 1.000 x .187 x .125	1
25	8-82-00025	Turn Signal Switch	1
26	8-40-05027	Turn Signal Light	4
27			
28	2-00-00455	Flat Washer # 10	2
29	8-28-05011	Fuse, FU-1 15 Amp	1
30	2-00-00220	Screw, 1/1 - 20 x .625 HHC	2

P 4823/9510

TURN SIGNAL - EXPLODED VIEW



WARNING LIGHTS (STANDARD) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>ROTATING LIGHT DESCRIPTION</u>	<u>QTY</u>
1	8-40-05033	Red	1
	8-40-05041	Yellow	1
2	2-00-04578	Connector	1
3	2-00-00491	Grommet	1
4	2-00-00512	Lock Washer, #10 Int	2

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>FLASHING LIGHT DESCRIPTION</u>	<u>QTY</u>
5	8-40-05033	Red	1
	8-40-05041	Yellow	1
6	2-00-04578	Connector	1
7	2-00-00491	Grommet	1
8	2-00-00512	Lock Washer, #10 Int	2
9	2-00-04897	Screw, #10 - 24 x 1.250 THM	2
10	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	2

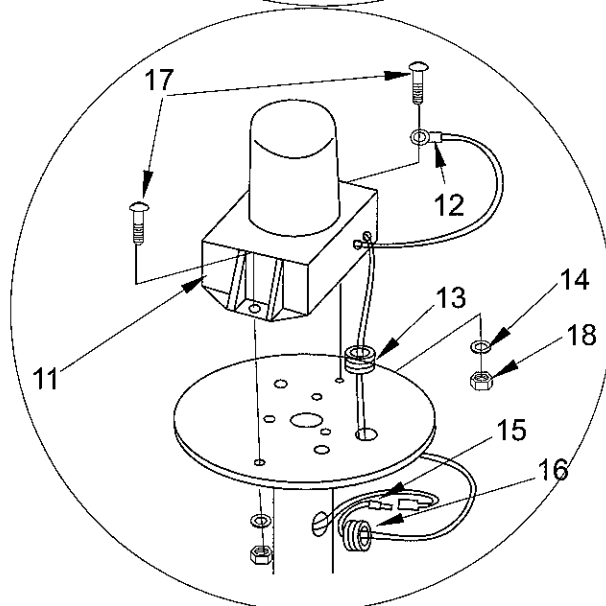
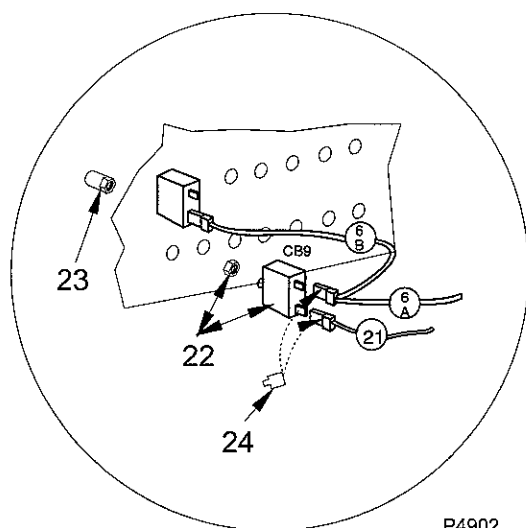
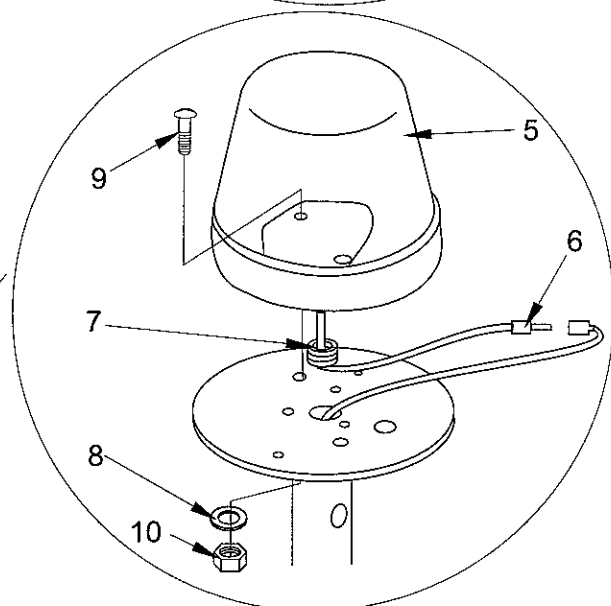
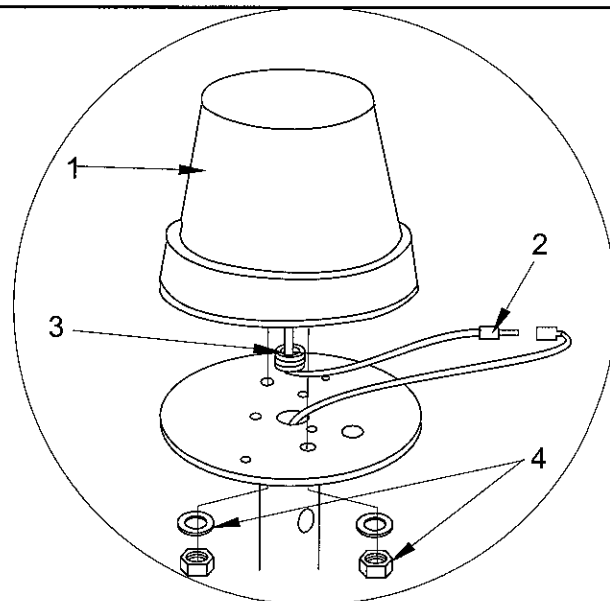
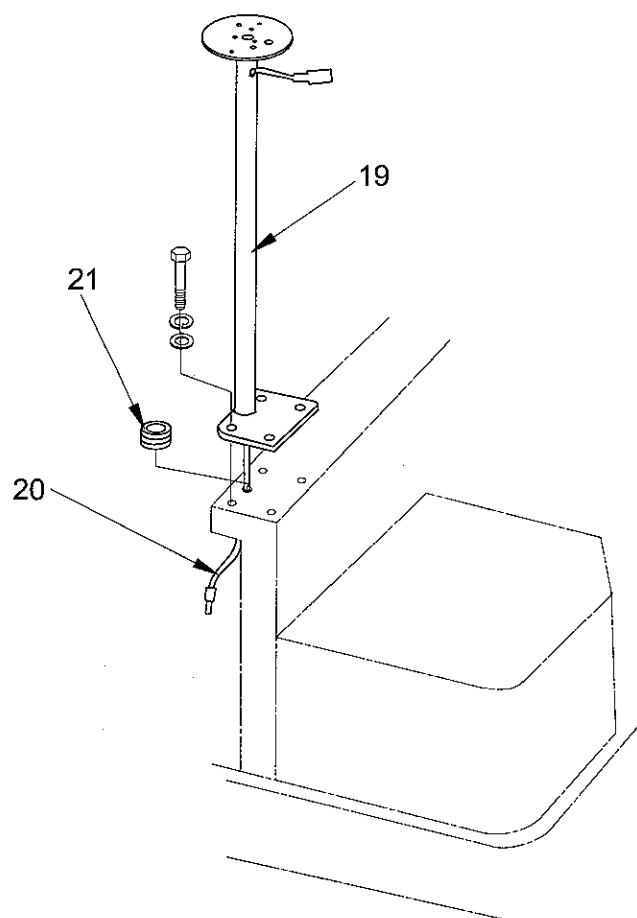
<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>STROBE LIGHT DESCRIPTION</u>	<u>QTY</u>
11	8-40-05033	Red	1
	8-40-05041	Yellow	1
12	2-00-00838	Terminal	1
13	2-00-00491	Grommet	1
14	2-00-00512	Lock Washer, #10 Int	2
15	2-00-04578	Connector	1
16	2-00-04341	Grommet	1
17	2-00-03063	Screw, #10 - 24 x .750 THM	2
18	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	2

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>LIGHT SUPPORT DESCRIPTION</u>	<u>QTY</u>
19	8-81-00145	Weldment	1
20	8-90-07362	Wire Assembly	1
21	2-00-00491	Grommet	1

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>CIRCUIT BREAKER DESCRIPTION</u>	<u>QTY</u>
22	8-64-00008	Circuit Breaker (15AMP)	1
23	8-11-00044	Boot	1
24	8-11-00015	Terminal	1

P4902/9601

WARNING LIGHTS (STANDARD) - EXPLODED VIEW



P4902

WARNING LIGHTS with OVERHEAD GUARD - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>ROTATING LIGHT DESCRIPTION</u>	<u>QTY</u>
1	8-40-05033	Red	1
	8-40-05041	Amber	1
2	2-00-04578	Connector	1
3	2-00-00491	Grommet	1
4	2-00-00512	Lock Washer, #10 Int	2

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>FLASHING LIGHT DESCRIPTION</u>	<u>QTY</u>
5	8-40-05033	Red	1
	8-40-05041	Amber	1
6	2-00-04578	Connector	1
7	2-00-00491	Grommet	1
8	2-00-00512	Lock Washer, #10 Int	2
9	2-00-04897	Screw, #10 - 24 x 1.250 THM	2
10	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	2

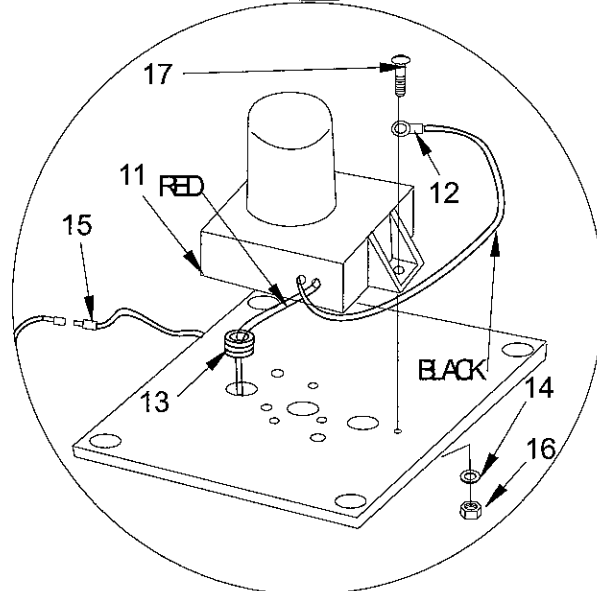
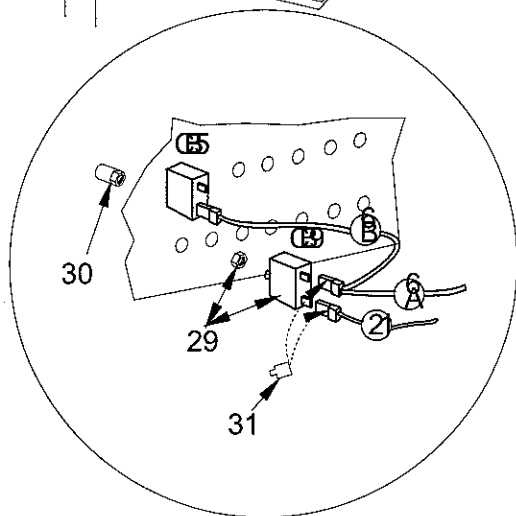
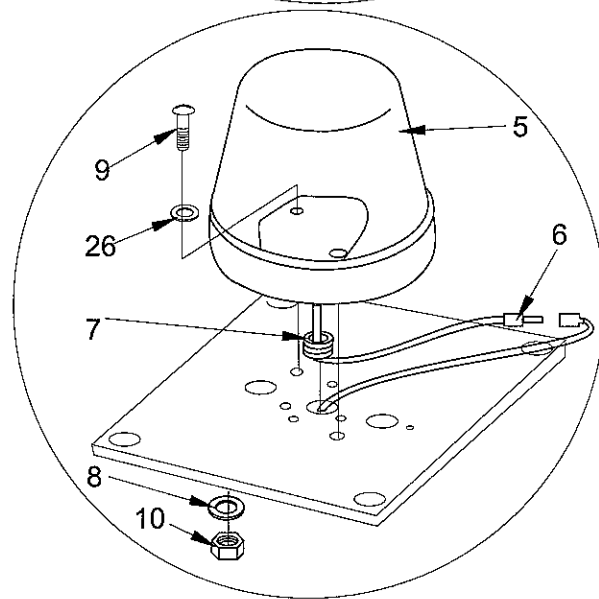
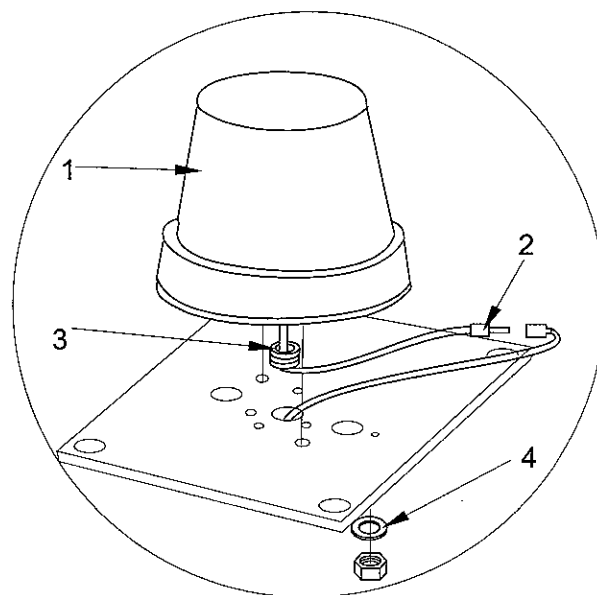
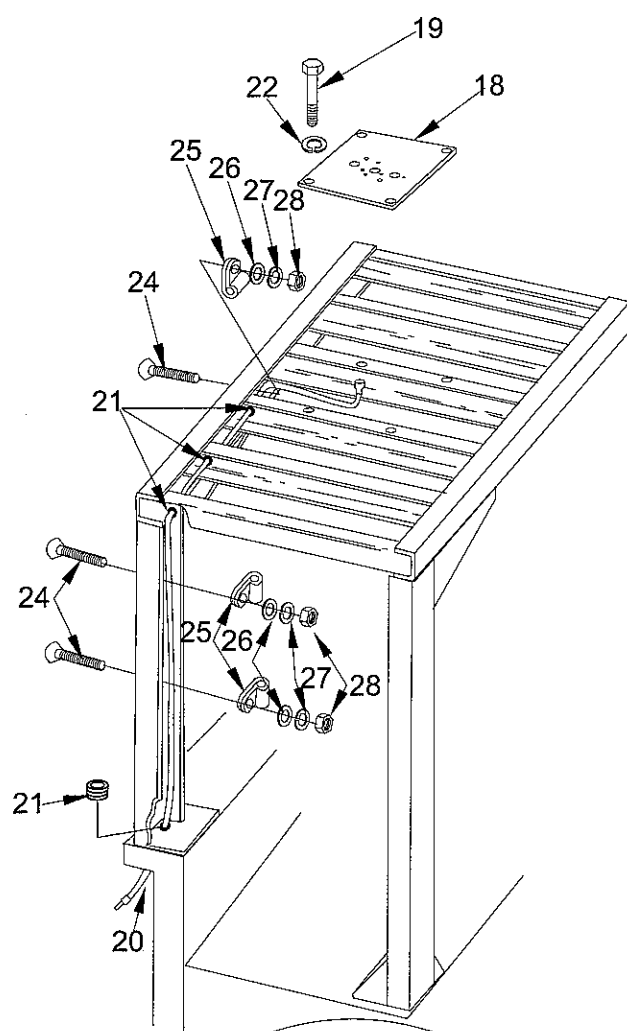
<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>STROBE LIGHT DESCRIPTION</u>	<u>QTY</u>
11	8-40-05033	Red	1
	8-40-05041	Amber	1
12	2-00-00838	Terminal	1
13	2-00-00491	Grommet	1
14	2-00-00512	Lock Washer, #10 Int	2
15	2-00-04578	Connector	1
16	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	2
17	2-00-03063	Screw, #10 - 24 x .750 THM	2

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>GUARD WIRE & SUPPORT ASSEMBLY DESCRIPTION</u>	<u>QTY</u>
18	8-58-05228	Light Support	1
19	2-00-00221	Screw, 1/4 - 20 x .750 HHC	4
20	8-90-07363	Wire Assembly	1
21	2-00-00491	Grommet	1
22	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
23			
24	2-00-03063	Screw, #10 - 24 x .750 THM	3
25	2-00-04209	Clamp	3
26	2-00-00426	Flat Washer, .500 x .218 x .062	3
27	2-00-00512	Lock Washer, #10 Int	3
28	2-00-00605	Nut, Hex MS #10 - 24 x .375 x .125	3

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>CIRCUIT BREAKER DESCRIPTION</u>	<u>QTY</u>
29	8-64-00008	Circuit Breaker (15AMP)	1
30	8-11-00044	Boot	1
31	8-11-00015	Terminal	1

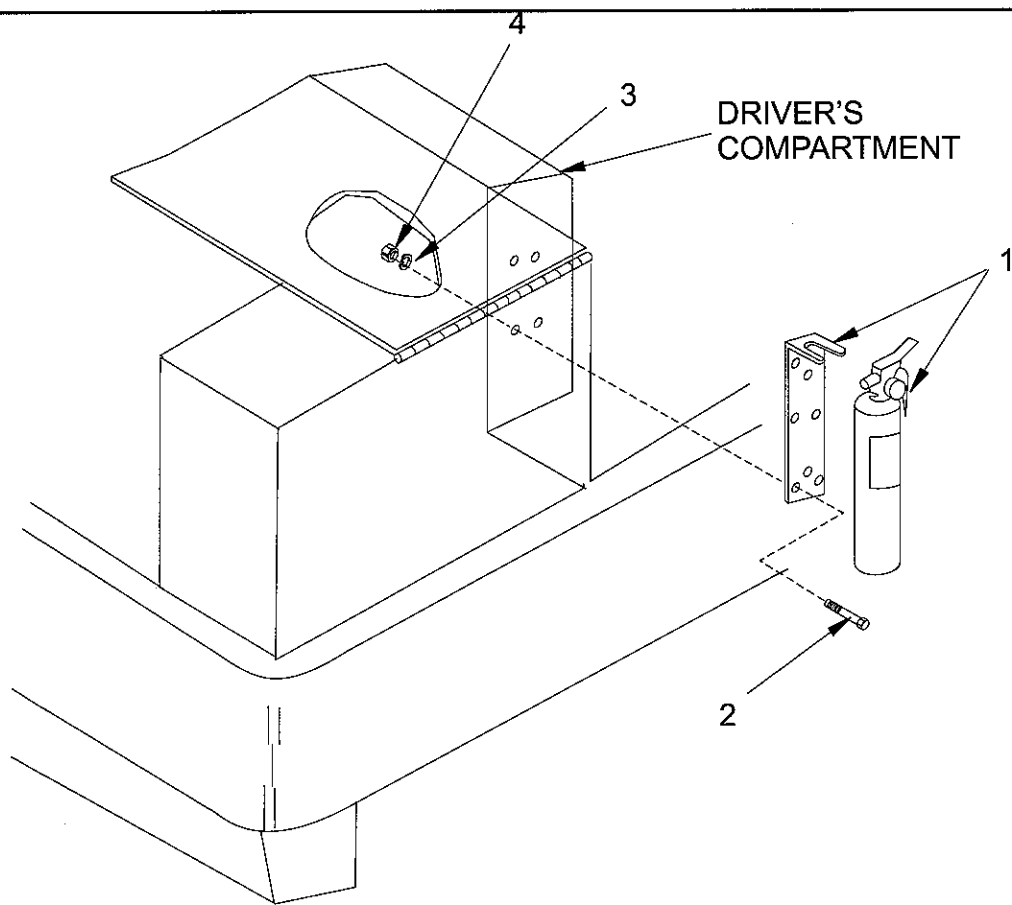
P4901/9601

WARNING LIGHTS with OVERHEAD GUARD - EXPLODED VIEW



P4901/9511

FIRE EXTINGUISHER

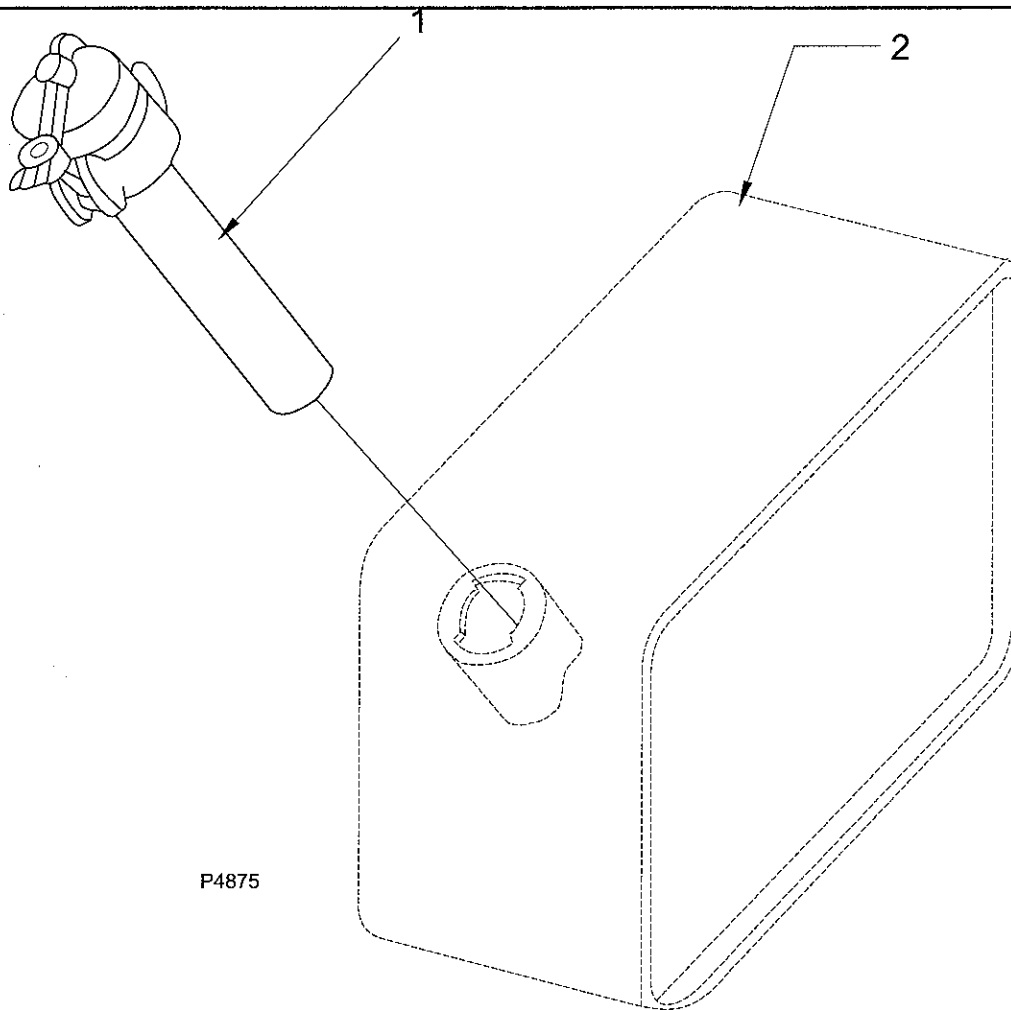


P4872-1/9704

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-83-04033	Fire Extinguisher	1
2	2-00-00221	Screw, 1/4 - 20 x .750 HHC	4
3	2-00-00518	Lock Washer, 1/4 Split	4
4	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	4

P4872-1/9511

FLAME ARRESTING GAS CAP

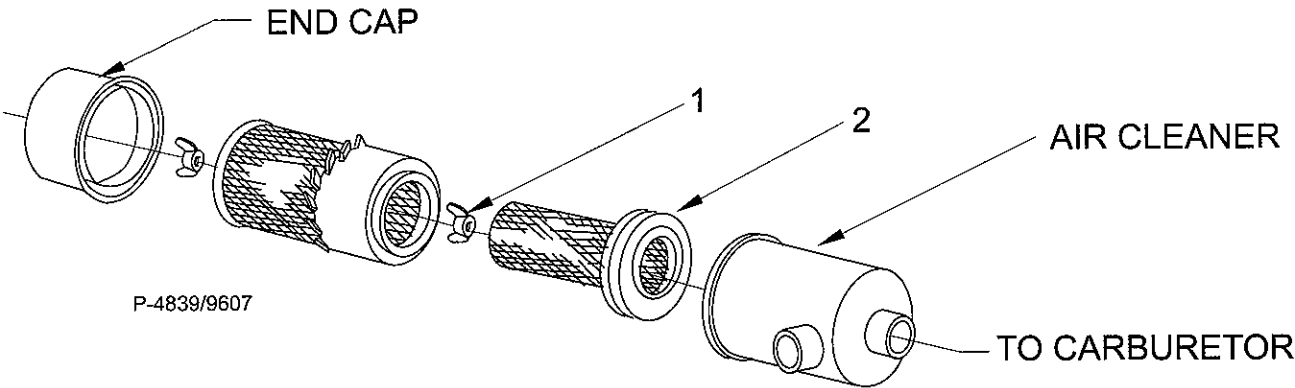


OPTION NO. 0880-105

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-11-00024	Flame Arresting Gas Cap	1
2	8-83-04022	Fuel Tank with Gauge	1

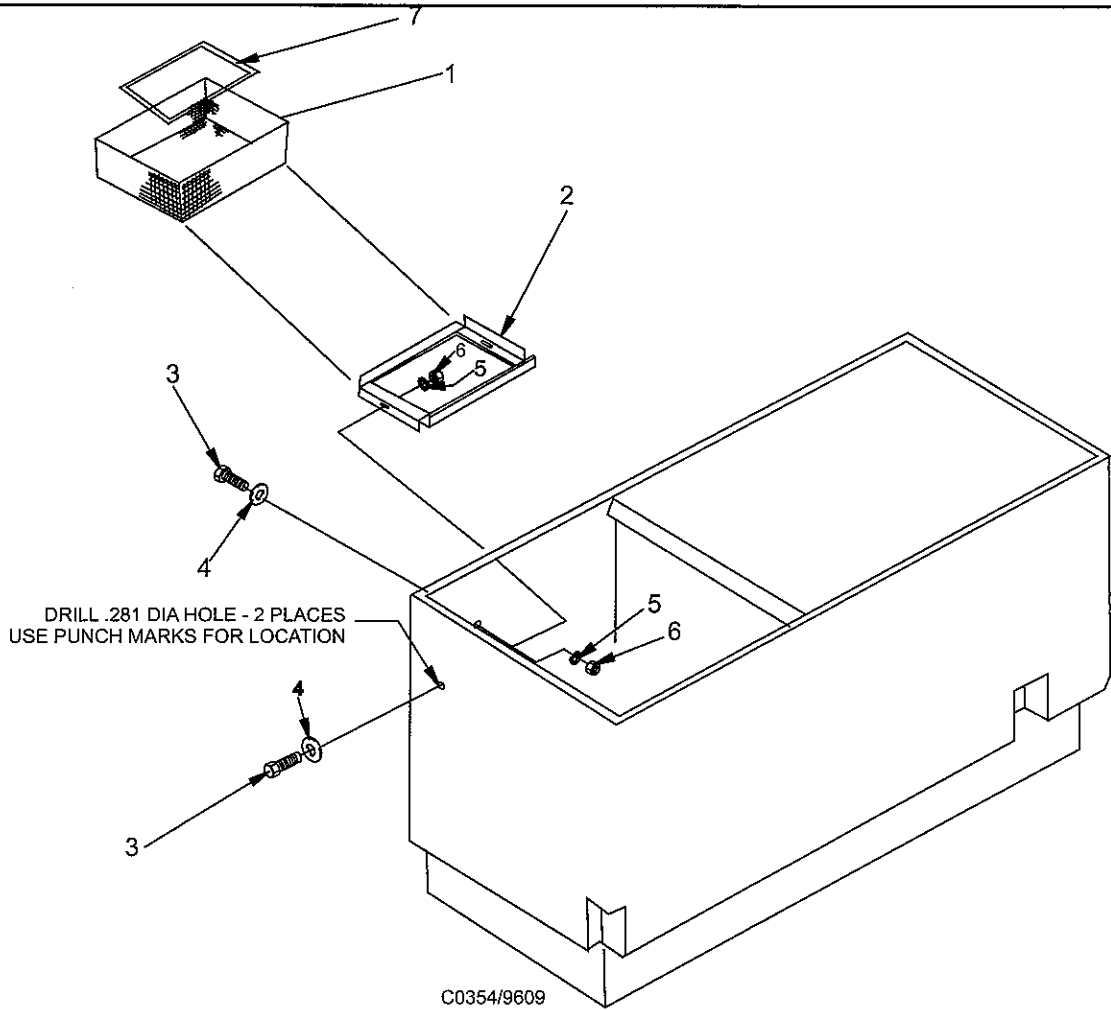
P4875/9601

SAFETY AIR CLEANER



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-23-03064	Wing Nut Assembly	1
2	8-24-04111	Filter Element	1

P4839/9601



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-06-00001	Debris Basket	1
2	7-27-07156	Debris Basket Frame	1
3	2-00-04685	Screw, 1/4-20 x .750 HHC	2
4	2-00-04590	Sealing Washer, 1/4	2
5	2-00-04686	Lock Washer, 1/4	2
6	2-00-04688	Nut, Hex 1/4-20	2
7	3-73-00024	Edging	3.75'

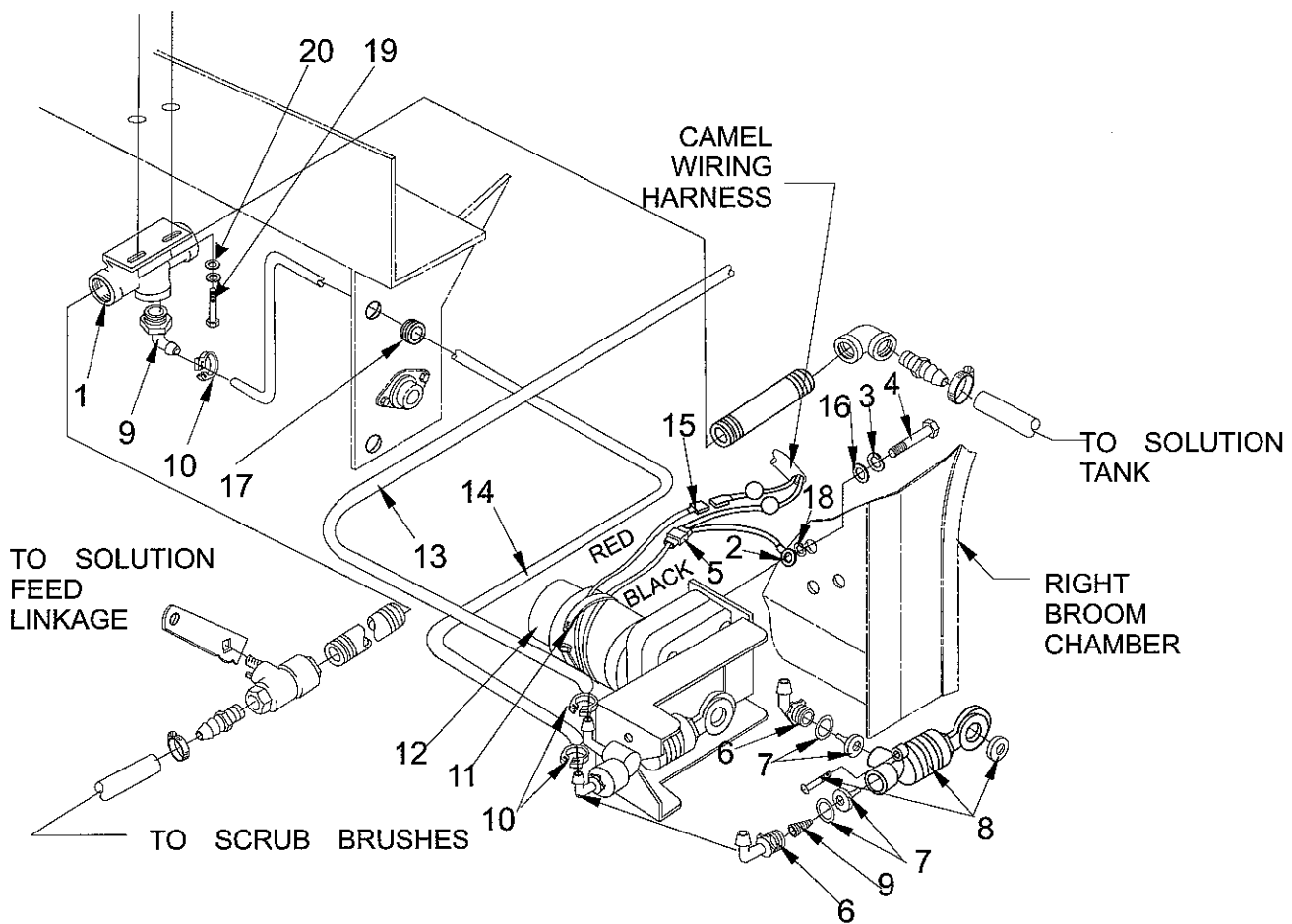
C0354/9511

DETERGENT METERING PUMP (CAMEL) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-08-00437	Solution Pipe Bracket	1
2	2-00-00842	Wing Terminal	1
3	2-00-00519	Lock Washer, Helical Spring #10 Med	3
4	2-00-02848	Screw, #10 - 32 x .500 RHM	3
5	2-00-04479	Splice	1
6	0780-071	Tubing Connector Service Parts Kit	Ref
7	0780-072	Hi-Hat Poppet Service Parts Kit	Ref
8	0780-073	Bellows Module Service Parts Kit	Ref
9	2-00-04655	90° Elbow, 3/4 NPT to Barb	1
10	7-13-07084	Hose Clamp	3
11	2-00-04345	Ty-Rap	1
12	7-60-05008	Bellows Metering Pump	1
13	7-87-02147	Detergent Feed Tube	1
14	7-87-02129	Detergent Feed Tube	1
15	8-11-00015	Terminal, 1/4 Male Blade Covered	1
16	2-00-00426	Flat Washer, .500 x .219 x .063	1
17	2-00-03878	Grommet, 1.062 x .500 x .437 x .187	1
18	2-00-02296	Lock Washer, #10 Ext.	1
19	2-00-01081	Screw 8-32 x .50 T/C-RHPH	1
20	2-00-00506	Washer Lock Intl. #8	2

P4885/9510

DETERGENT METERING PUMP (CAMEL) - EXPLODED VIEW

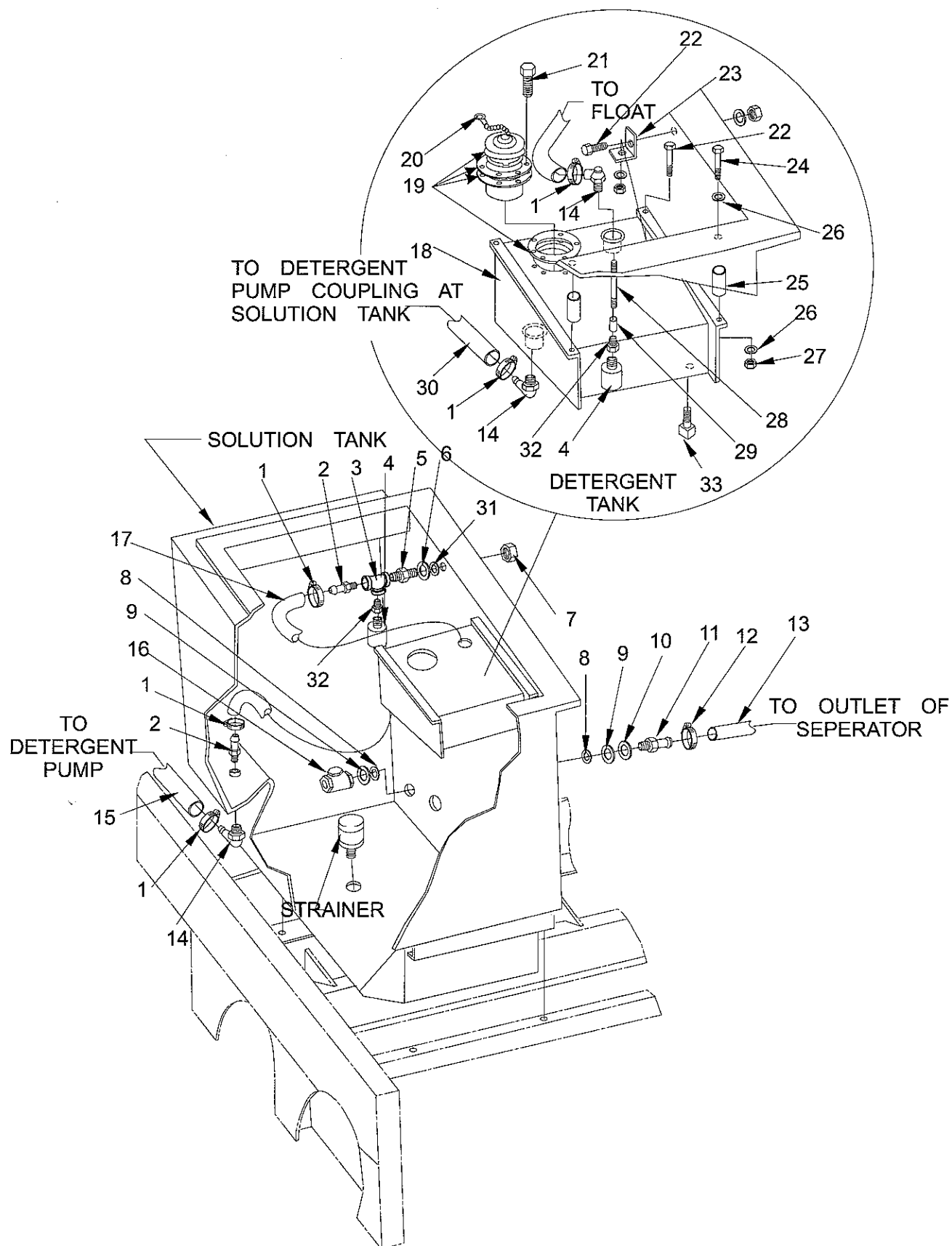


SOLUTION TANK (CAMEL) - EXPLODED VIEW

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-13-07084	Hose Clamp	4
2	2-74-00001	Fitting	2
3	2-00-05022	Female Pipe Tee, 1/4-18 NPT	1
4	7-82-00017	Float	2
5	2-00-04628	Pipe Nipple 1/4-18 NPT to 3/8-18 NPT	1
6	2-00-05020	Sealing Washer	1
7	2-00-05018	Nut	1
8	2-00-05014	O-Ring, 1.255 x 1.049 x .103	2
9	2-00-05015	Sealing Washer	2
10	2-00-05239	Flat Washer, 2.000 x 1.062 x .125 S.S.	1
11	7-25-02039	Hose Fitting Barbed, Male Swivel 3/4-14 NPTF	1
12	2-00-02220	Hose Clamp, .812 - 1.500	1
13	7-33-02227	Hose, Separator to Solution Tank	1
14	2-74-00001	Fitting	3
15	7-87-02147	Detergent Feed Tube	1
16	7-88-00031	Check Valve, 3/4NPT	1
17	7-87-02128	Tube	1
18	7-83-04112	Detergent Tank	1
19	7-11-00031	Filler Assembly	1
20	2-00-00830	Terminal	1
21	2-00-05234	Screw, #8 - 32 x .625 RHM S.S.	6
22	2-00-04685	Screw, 1/4 - 20 x .750 HHC S.S.	2
23	7-08-00516	Detergent Tank Bracket	1
24	2-00-05122	Screw, 1/4 - 20 x 2.000 HHC S.S.	2
25	7-09-01046	Spacer, .500 x .375 x 1.250	2
26	2-00-04687	Lock Washer, Helical Spring 1/4 Med S.S.	4
27	2-00-04688	Nut, Hex 1/4 - 20 x .437 x .218 S.S.	1
28	2-00-05021	Pipe Nipple, 1/4 NPT x 2.500	1
29	2-00-05011	Pipe Coupling, 1/4 NPT	1
30	7-87-02129	Tube	1
31	2-00-05019	O-Ring, .885 x .679 x .109	1
32	2-00-05003	Fitting, Reducer	2
33	2-00-02471	Pipe Plug, 1/4 NPT	1

P4604/9510

SOLUTION TANK (CAMEL) - EXPLODED VIEW

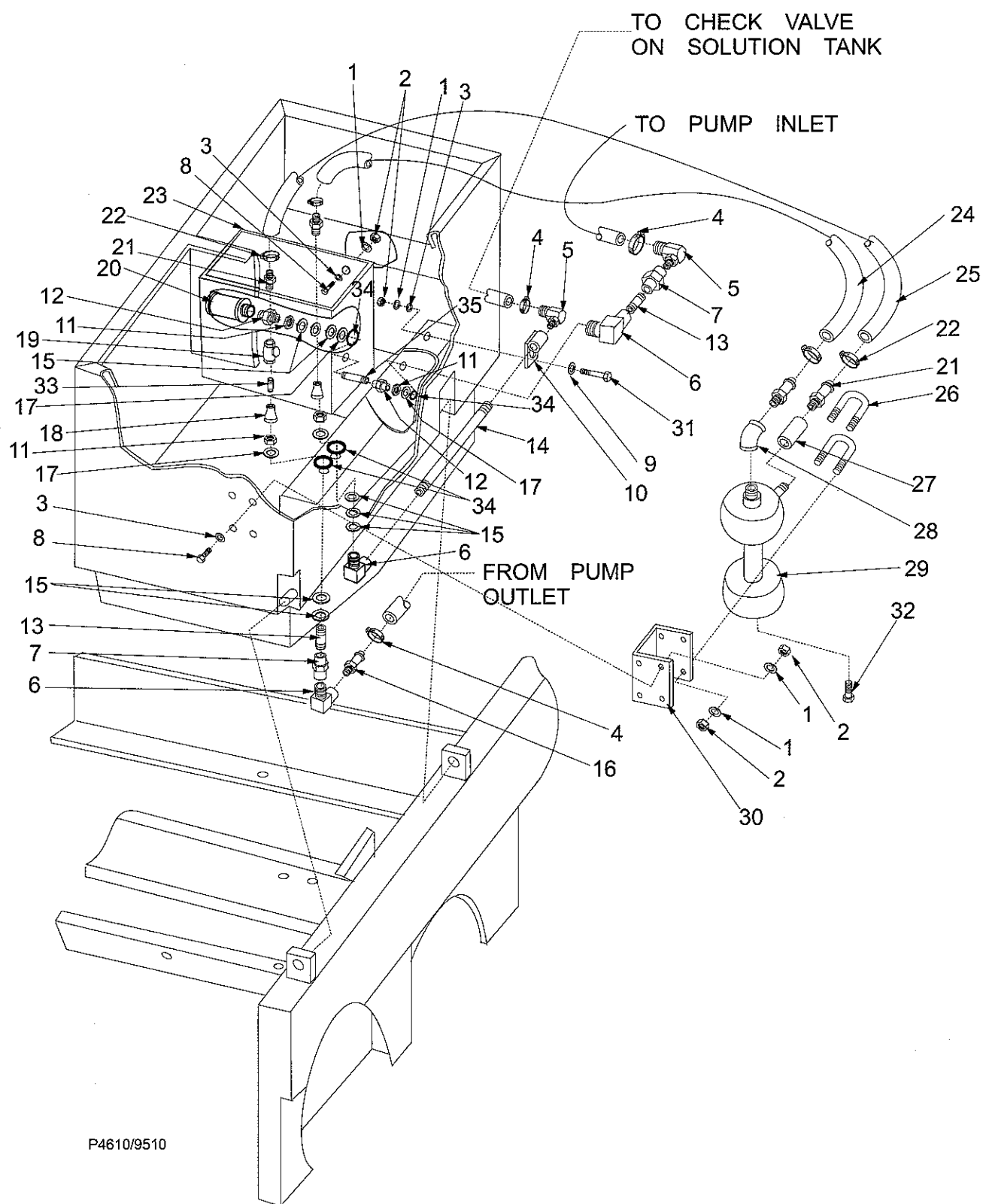


RECOVERY TANK (CAMEL) - EXPLODED VIEW

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	2-00-04687	Lock Washer, Helical Spring 1/4 Med S.S.	11
2	2-00-04688	Nut, Hex 1/4 - 20 x .437 x .218 S.S.	11
3	2-00-04590	Sealing Washer, .63 x .250	7
4	2-00-03407	Hose Clamp, .812 - 1.500	3
5	2-00-04751	Hose Fitting 90° NPTF Swivel Male Elbow, 3/4-14	2
6	2-00-04469	Fitting, 90° Elbow	2
7	2-00-04608	Pipe Coupling, 3/4-14 NPT	3
8	2-00-04685	Screw, 1/4 - 20 x .750 HHC S.S.	7
9	2-00-00407	Flat Washer, .562 x .265 x .062	1
10	7-08-00517	Pipe Coupling Bracket	1
11	2-00-05013	Nut, Hex 3/4 NPT	4
12	2-00-04736	Pipe Connector, 3/4-14 x 2.000 F-F	1
13	2-95-02518	Pipe Nipple, 3/4 NPT x 1 3/8 Close	3
14	2-00-05012	Pipe Nipple, 3/4 NPT x 10 1/2	1
15	2-00-05239	Flat Washer, 2.000 x 1.062 x .125 S.S.	2
16	7-25-02039	Hose Fitting Barbed, Male Swivel 3/4-1/4 NPTF	2
17	2-00-05015	Sealing Washer,	2
18	2-00-03893	Pipe Reducer Coupling, 3/4 NPT - 1/2 NPT	2
19	7-88-00030	Check Valve, 1/2 NPT	1
20	7-24-04022	Solution Inlet Filter	1
21	7-25-02040	Straight Barb Stem, 1/2 - 14	4
22	2-00-03407	Hose Clamp, .562 to 1.062	4
23	7-83-04096	Camel Sump Tank	1
24	7-33-02212	Hose	1
25	7-33-02211	Hose	1
26	2-00-04579	U-Bolt, 5/16-18 x 2.000 x 2.687	2
27	2-95-02547	Pipe Coupling, 1/2 NPT	1
28	2-95-02527	Pipe Elbow, 90° 1/2 NPT	1
29	7-24-04036	In Line Filter	1
30	7-08-00519	Camel Separator Bracket	1
31	2-00-05233	Screw, 1/4-20 x .875 HHC S.S.	1
32	7-56-05012	Fitting, Separator Purge	1
33	2-95-02516	Pipe Nipple, 1/2 NPT x 1 1/8 (Close)	1
34	2-00-05014	O - Ring, 1.255 x 1.049 x .139	4
35	2-95-04267	Pipe Nipple, 3/4 NPT x 3	1

P4610/9510

RECOVERY TANK (CAMEL) - EXPLODED VIEW



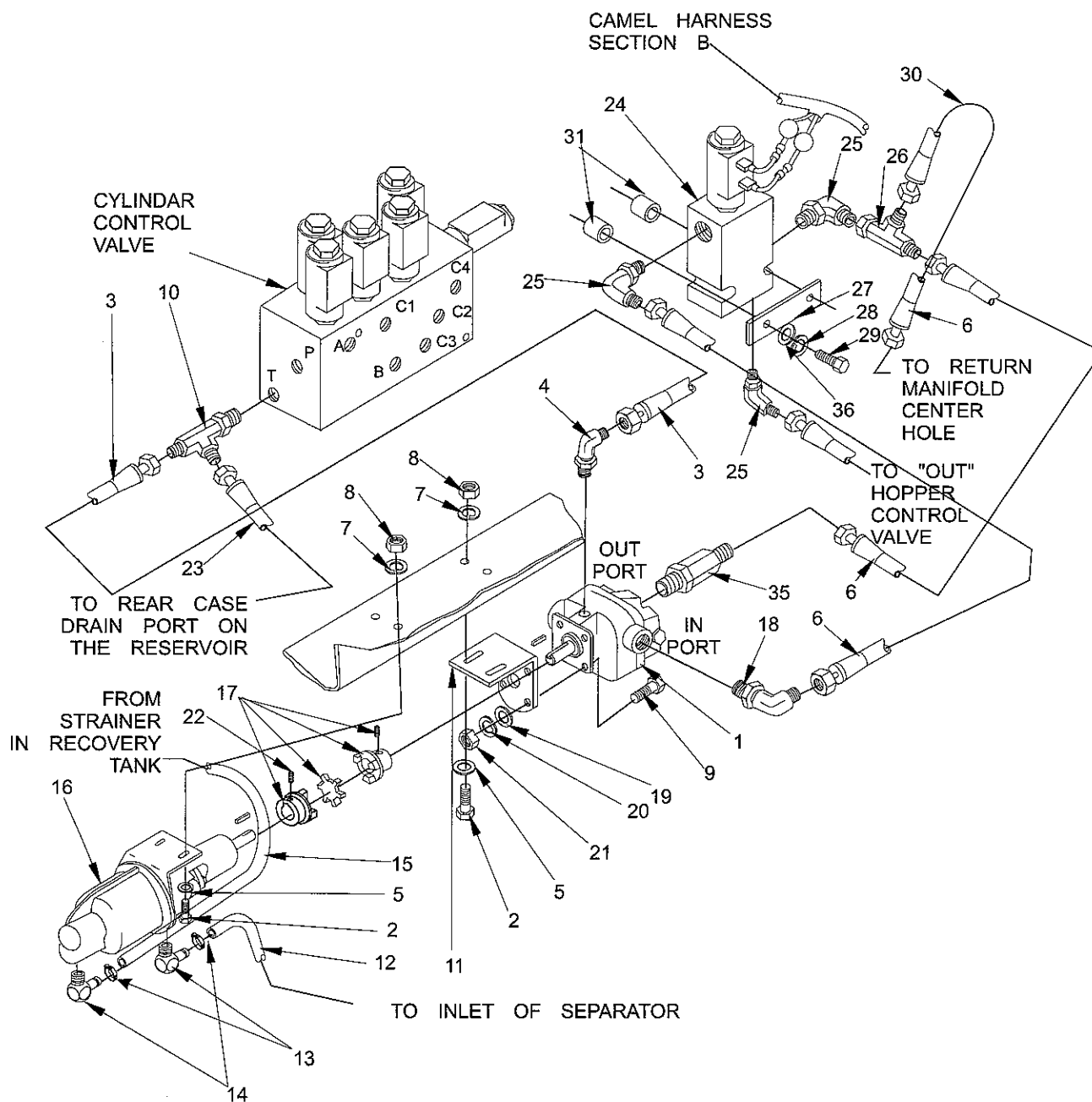
P4610/9510

RECOVERY SYSTEM (CAMEL) - PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	0782-116	Recycling Pump Motor	1
2	2-00-00209	Screw, 3/8 - 16 x 1.250 HHC	4
3	7-33-02226	Hydraulic Hose, ORS 4 - Str. Ends 13.00"	1
4	2-00-04892	ORFS 90° Elbow, 7/16-20 to 9/16-18	1
5	2-00-00402	Flat Washer, .750 x .390 x .093	4
6	8-33-02214	Hose, Hydraulic ORS8 - 029.000 L	2
7	2-00-02310	Lock Washer, Helical Spring 3/8 Med	4
8	2-00-02360	Nut, Hex 3/8 - 16 x .562 x .328	4
9	2-00-00207	Screw, 5/16-18 x 1.250 HHC	4
10	2-00-04927	ORFS Branch Tee, 7/16-20 to 9/16-18	1
11	7-08-00518	Bracket	1
12	7-33-02210	Hose, Pump to Separator	1
13	2-00-02220	Hose Clamp, .812 - 1.500	2
14	7-25-02038	90° Barb Stem Elbow, 3/4-14	2
15	7-33-02209	Hose, Pump to Recovery	1
16	7-60-05007	Recycling Pump	1
	2-60-02271	Repair Kit for 7-60-05007	1
17	7-16-05021	Flexible Coupling	1
18	2-00-04922	Fitting, 90° Elbow	1
19	2-00-00409	Flat Washer, .687 x .343 x .062	4
20	2-00-00530	Lock Washer, Helical Spring, 5/16 Med	4
21	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	4
22	2-00-00287	Setscrew, 1/4 - 20 x .500 HS-KCP	4
23	7-33-02225	Hose, Hydraulic ORS 4 90° to str. 38"	Ref
24	7-88-00052	Valve, Motor Shut Off	1
	7-12-02023	Valve Cartridge	-
25	2-00-04885	ORFS 90° Elbow, 3/4-16 to 13/16-16	3
26	2-00-04928	ORFS 8 Run Tee, 13/16-16 Male	1
27	8-65-00043	Retainer	1
28	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
29	2-00-04986	Screw, 1/4-20 x 4.500 HHC	2
30	7-33-02187	Hose, Hydraulic	1
31	2-00-05046	Fitting, Swivel 90° Elbow	1
32			
33			
34			
35	2-00-04979	Connector, ORFS 1 1/16-12 to 13/16-16	1
36	2-00-00407	Flat Washer 1/4	2

P4849

RECOVERY SYSTEM (CAMEL) - EXPLODED VIEW



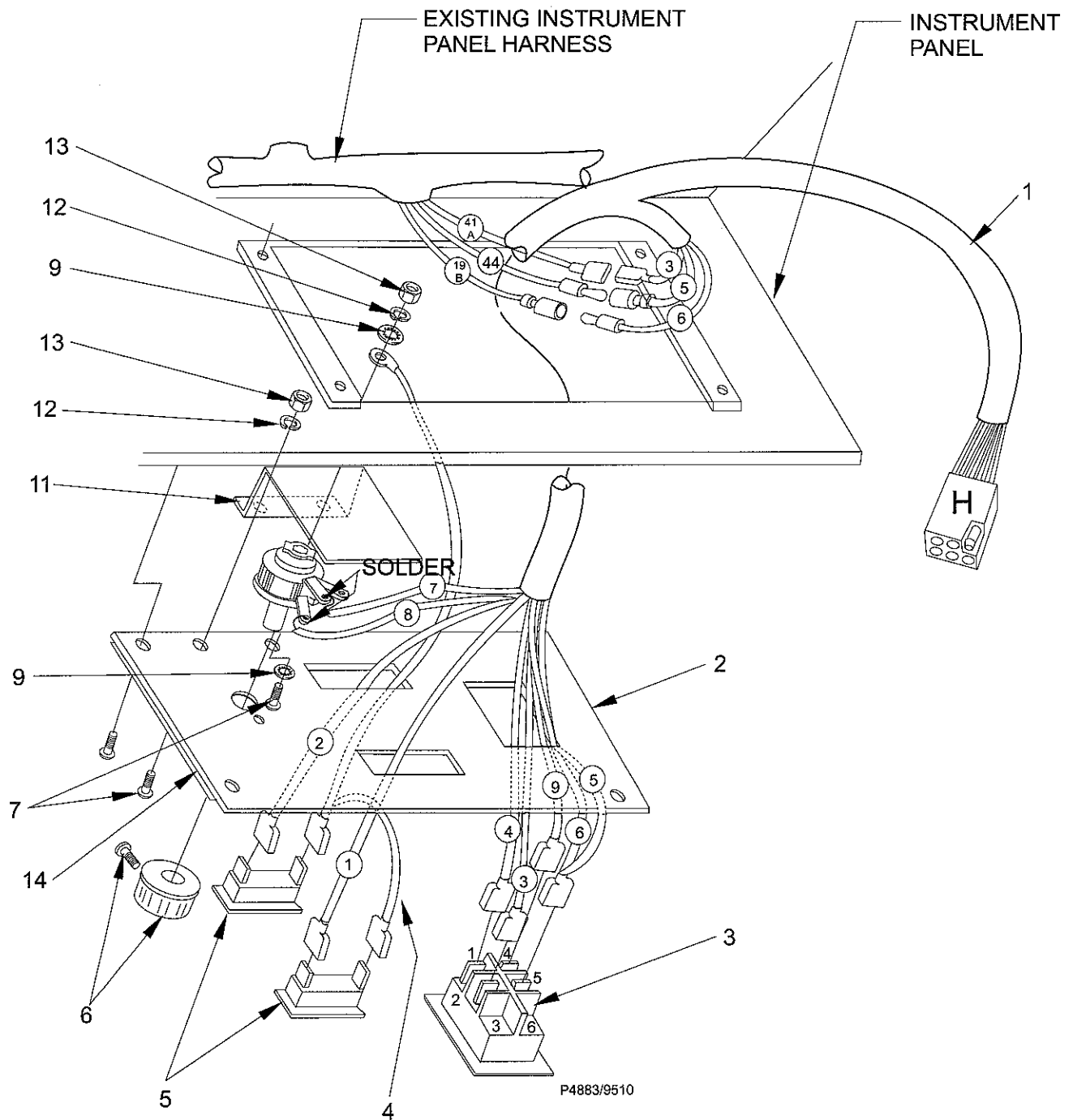
P4849

INSTRUMENT PANEL (CAMEL) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	0795-081	Camel Wiring Harness	1
2	7-52-00082	Camel Instrument Panel	1
3	7-82-00022	DPS ON/OFF Switch	1
4	7-90-07233	Wire Assembly	1
5	7-40-05028	Light	2
6	7-39-00021	Knob	1
7	2-00-03059	Screw, #10-32 x .375 RHM	2
8			
9	2-00-02296	Lock Washer, #10 Ext.	2
10	7-64-05009	Variable Resistor (Rheostat)	1
11	7-30-05057	Guard (Rheostat)	1
12	2-00-00529	Lock Washer, Helical Spring #8 Med	2
13	2-00-00602	Nut, Hex MS #8-32 x .375 x .125	2
14	7-18-00136	Decal, Detergent Flow	1

P4883

INSTRUMENT PANEL (CAMEL) - EXPLODED VIEW

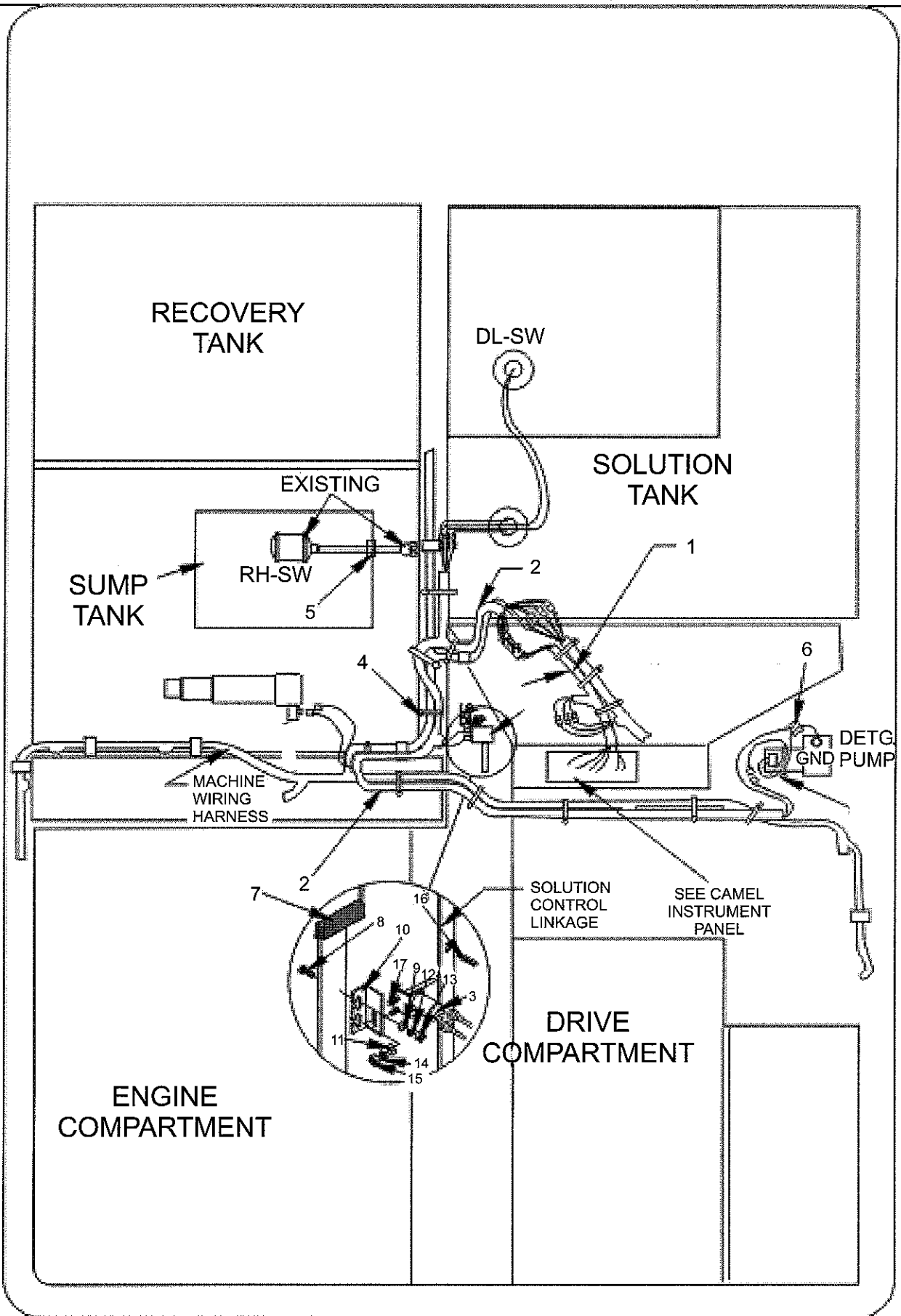


WIRING (CAMEL) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	0795-081	Camel Wiring Harness, Section A	1
2	0795-081	Camel Wiring Harness, Section B	1
3	8-82-00036	LS-DMP Switch	1
4	2-00-04345	Wire Tie	
5	2-00-00491	Grommet	1
6	2-00-04479	Splice	1
7	8-21-04019	Edging	1
8	2-00-03575	Carriage Bolt, 1/4-20 x .750	2
9	2-00-00407	Flat Washer, .562 x .265 x .062	2
10	8-08-00532	Bracket	1
11	2-00-00426	Flat Washer, .500 x .218 x .062	2
12	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
13	2-00-00594	Nut, Hex 1/4-20 X .437 X .218	2
14	2-00-00519	Lock Washer Helical Spring #10 Med	2
15	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	2
16	2-00-04749	Radial Locking Spring Pin .125 x 1.375	1
17	2-00-03059	Screw, #10-24 x .375 THM	2

P4884

WIRING (CAMEL) - EXPLODED VIEW



ENGINE SHUTDOWN (FORD) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-64-00004	Relay, Automatic Override	1
2	8-63-05013	Regulator, Pressurestat	1
3	7-40-05028	Light, Warning	1
4	8-63-05011	Regulator, Alarmstat	1
5	8-09-01070	Bushing, 3/8 NPT x 1/2 NPT	1
6	2-95-02537	Pipe Tee, 1/2 NPT (Galv.)	1
7	2-00-046.8	Pipe, Nipple 1/2 NPT x 3/8 NPT	1
8	2-00-02474	Plug, 1/2 NPT Hex HD	1
9	2-00-04808	Terminal, Amp. 52936 or Equiv.	11
10	2-00-00838	Terminal, Etc. B-337-10 or Equiv.	1
11	2-00-00049	Screw, #10-24 x .500 RHM	2
12	2-00-04626	Terminal, Holl. FP5336F or Equiv.	1
13	2-00-04576	Terminal, Holl. XMP9654S or Equiv.	1
14	2-00-01128	Terminal, Butt Splice	1
15	2-00-00519	Washer, #10 Lock	2
16	2-00-04345	Tye Rap	10
17	3-61-00189	Stranded, 16 awg. Black	20'
18	2-00-00605	Nut, #10-24	2

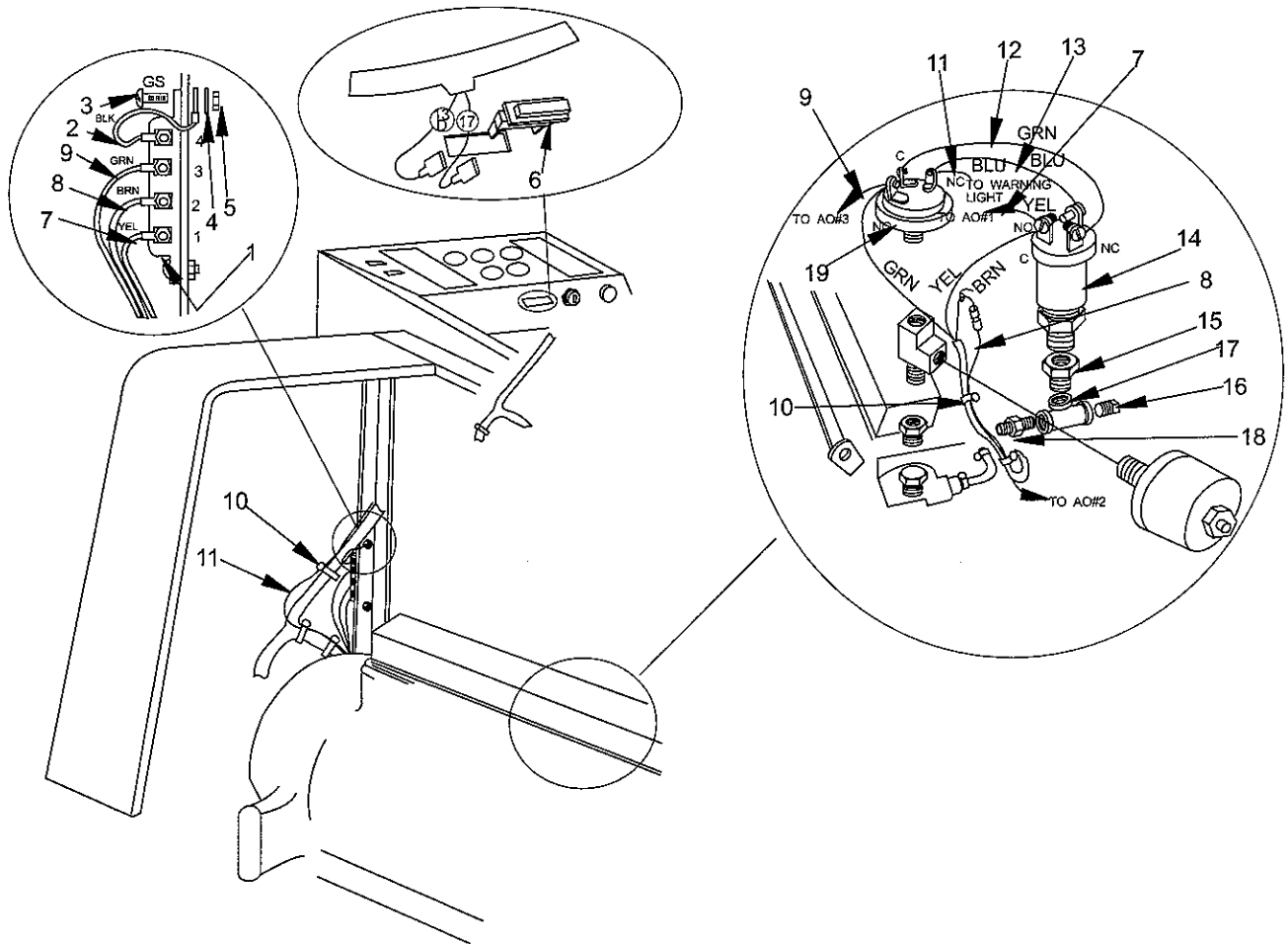
P4959

ENGINE SHUTDOWN (PERKINS) - PARTS LIST

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-64-00004	Automatic Override Relay	1
2	8-90-07365	Wire, (GS) to Automatic Override #4	1
3			
4	8-90-07364	Wire, Warning Light to Bullet Plug	1
5	8-90-07361	Wire, GS to Warning Light	1
6	7-40-05028	Warning Light	1
7	8-90-07398	Wire, (A.O. #1) to Alarmstat C	1
8	8-90-07399	Wire, (A.O. #2) to Butt Splice	1
9	8-90-07400	Wire, (A.O. #3) to Pressurestat NO	1
10	2-00-04345	Ty-Rap	11
11	8-90-07403	Wire, Bullet recept. to Pressurestat NC	1
12	8-90-07402	Wire, Pressurestat C to Alarmstat NC	1
13	8-90-07401	Wire, Pressurestat NC to Alarmstat NO	1
14	8-63-05012	Alarmstat Regulator	1
15	8-09-01070	Alarmstat Bushing, 3/8-1/2 NPT	1
16	2-00-02474	Pipe Plug, 1/2 NPT	1
17	2-95-02537	Tee	1
18	2-00-04638	Reducer, 3/8 to 1/2	1
19	8-63-05013	Pressurestat Regulator	1

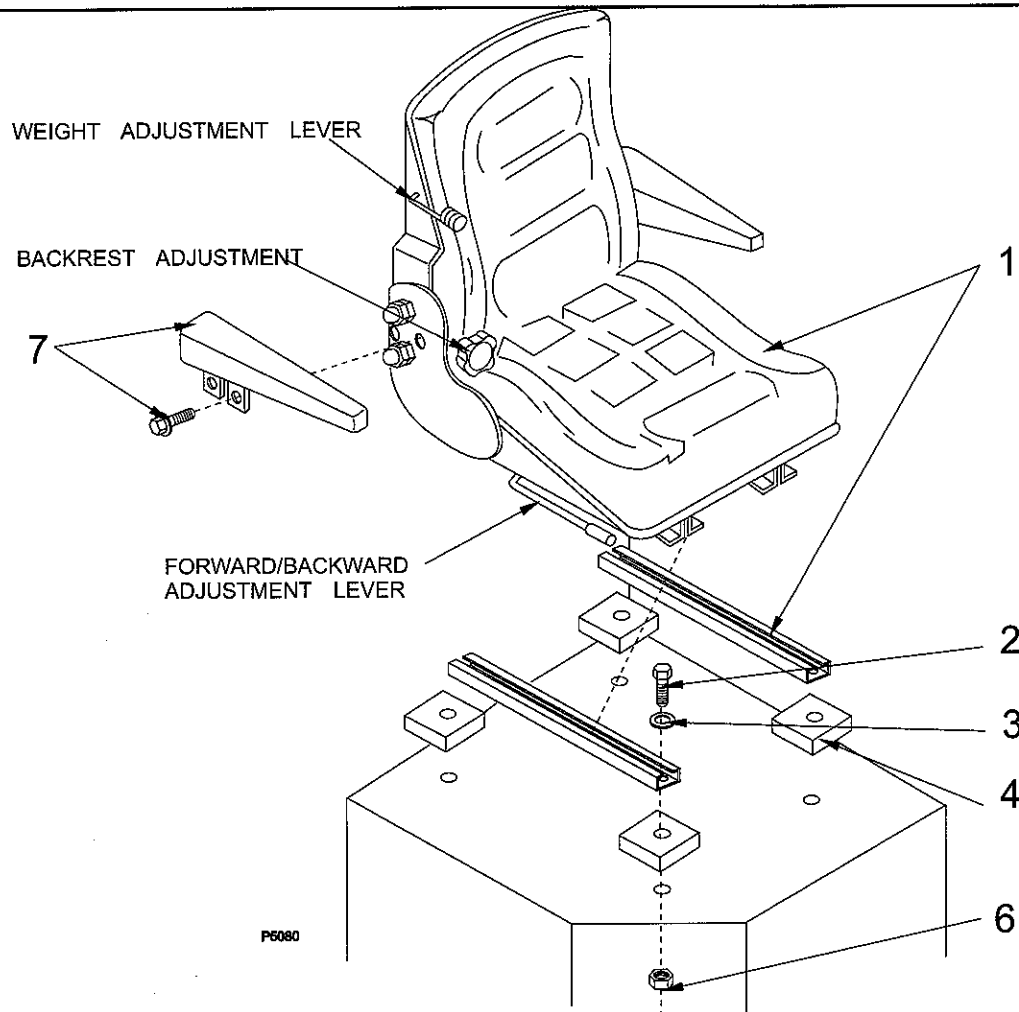
P5126

ENGINE SHUTDOWN (PERKINS) - EXPLODED VIEW



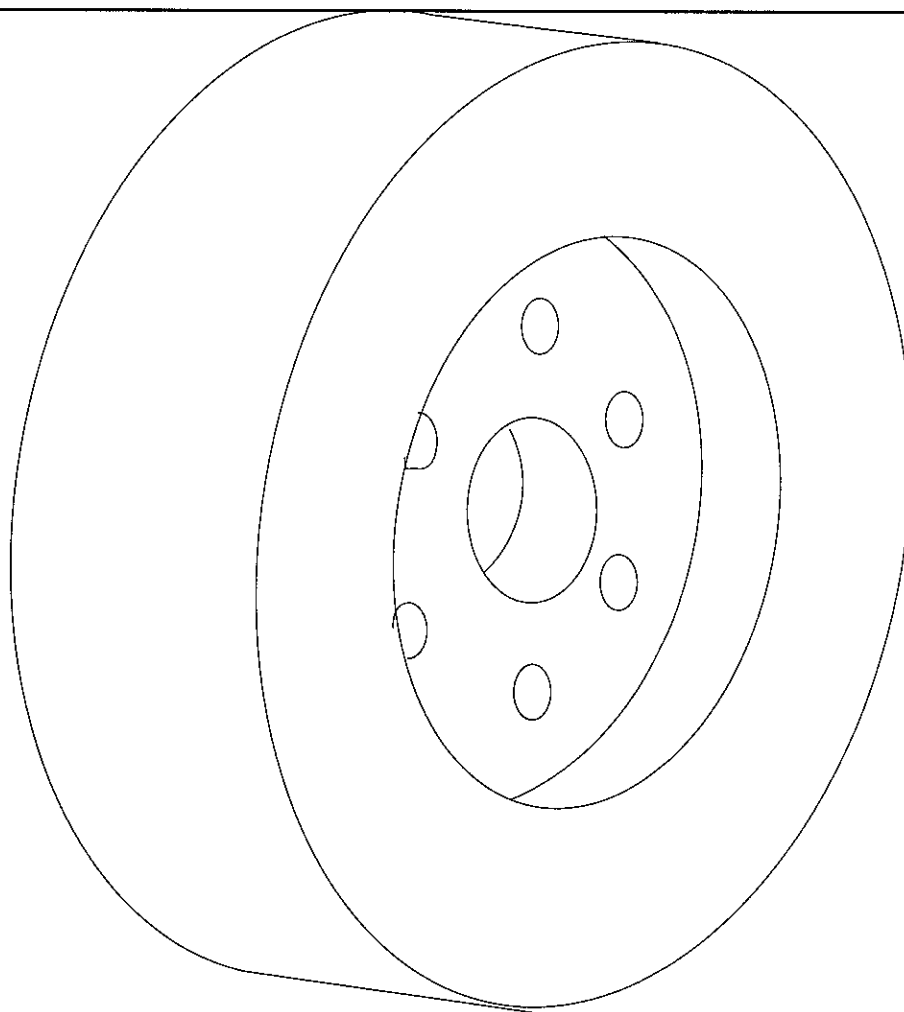
P5126/9706

SUSPENSION SEAT



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	8-69-00015	Seat without armrests	1
2	2-00-00225	Screw, 5/16-18 x 1.500 HHC	4
3	2-00-00409	Flat Washer, .687 x .343 x .062	4
4	8-71-00016	Shim Block	4
5			
6	2-00-00644	Nut, 5/16-18 Lock	4
7	8-09-04272	Armrest Kit (Includes both Armrests)	1
	0880-474	Suspension Seat Option (Includes all the Above)	1

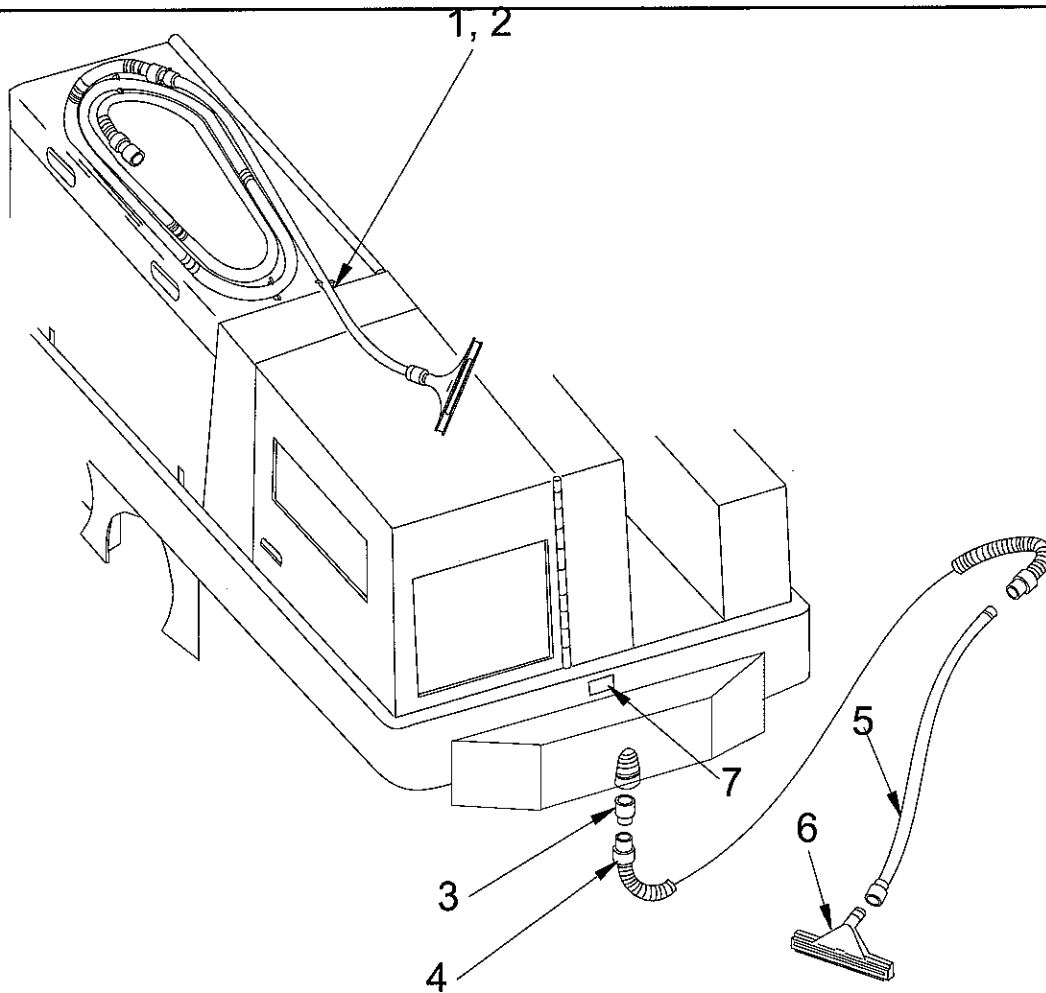
P5080/9601



<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	0780-081	Siped Rear Drive Tire	1
1	0780-098	Front Tire, Urethane	2

P4554/9601

VACUUM WAND

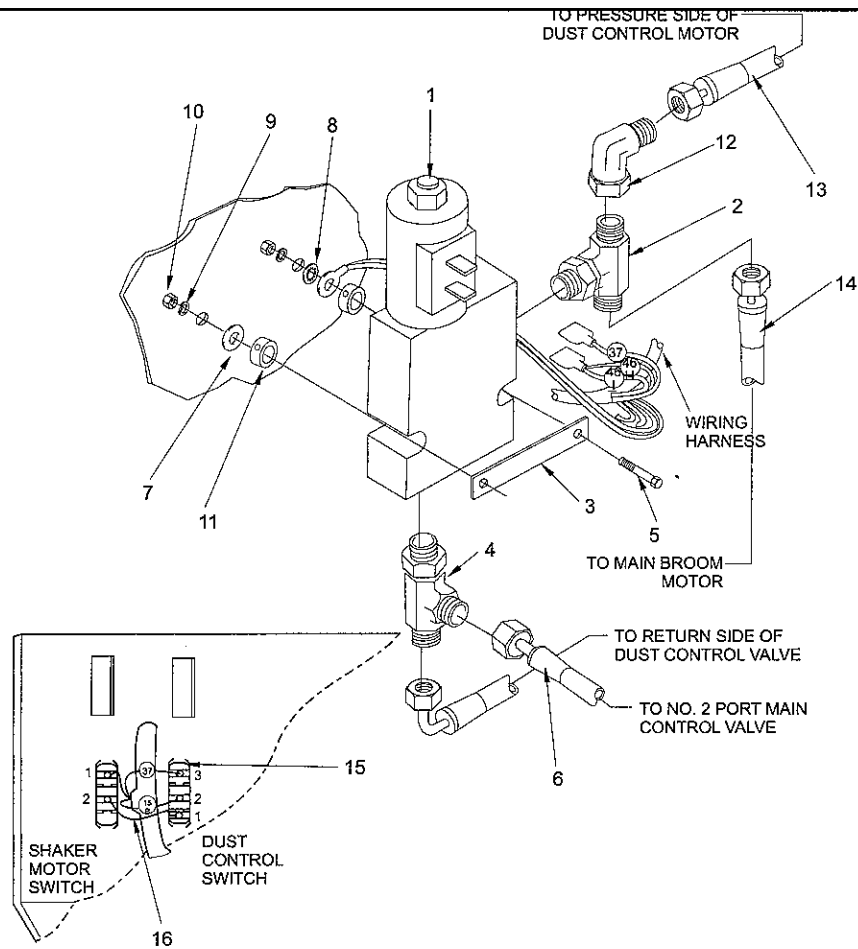


OPTION NO. 0780-091

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	7-13-07097	Clip	10
2	2-00-04312	Screw, #10 - 24 x .625 T/C HH	10
3	7-03-00040	Adapter	1
4	7-33-02213	Hose, 1 1/2 x 15' - 0"	1
5	0261-025	Wand	1
6	0261-024	14" Squeegee	1
7	7-18-00121	Decal, Warning	1

P4930/9601

WET SWEEP BYPASS



P4881/9809

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-88-00038	Solenoid Valve (N.O.)	1
2	2-00-04978	ORFS Run Tee, 3/4-16 to 13/16-16	1
3	8-08-00590	Bracket	1
4	2-00-04924	ORFS Run Tee, 3/4-16 to 13/16-16	1
5	2-00-01980	Screw, 1/4 - 20 x 2.500 HHC	2
6	8-33-02190	Hose (Gas)	1
6	7-33-02205	Hose (Diesel)	1
7	2-00-03702	Flat Washer, .625 x .281 x .062	1
8	2-00-00501	Lock Washer, 1/4 Int.	1
9	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
10	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	2
11	8-15-01008	Spacer	2
12	2-00-05046	Fitting, 90° Elbow	1
13	7-33-02192	Hose	Ref.
14	8-33-02214	Hose	Ref.
15	7-82-00020	Switch	1
16	7-90-07228	Wire, Jumper	1

P4881/9601

SPARE PARTS KIT (GAS/LP - MANUAL)

OPTION NO. 0780-363

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
BROOM and HOPPER COMPONENTS			
	7-25-08052	Flap, Broom Chamber Front	1
	7-25-08051	Flap, Broom Chamber Upper	1
	8-25-08050	Flap, Hopper Lip	4
REAR SQUEEGEE COMPONENTS			
	7-77-00057	Rubber Main Outer Squeegee	1
	7-77-00069	Side Squeegees	2
	7-77-00070	Side Squeegee Back-up Rubber	2
FILTERS			
	8-24-04106	Engine Air Cleaner Element	1
	7-24-04032	Hydraulic Return Filter Element	1
	7-24-04028-1	Hopper Panel Filter	1
ENGINE RELATED COMPONENTS			
Perkins LSG 423 GAS/LPG Engine			
	8-24-04128	Engine Oil Filter	1
	8-24-04129	Fuel Filter	1
	2-00-05100	Belt - Governor	1
	2-00-05099	Belt - Alternator	1
	2-00-05009	Belt - Auxiliary Pump	1

SPARE PARTS KIT (DIESEL - MANUAL)

OPTION NO. 0780-364

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
BROOM and HOPPER COMPONENTS			
	7-25-08052	Flap, Broom Chamber Front	1
	7-25-08051	Flap, Broom Chamber Upper	1
	8-25-08050	Flap, Hopper Lip	4
REAR SQUEEGEE COMPONENTS			
	7-77-00057	Rubber Main Outer Squeegee	1
	7-77-00069	Side Squeegees	2
	7-77-00070	Side Squeegee Back-up Rubber	2
FILTERS			
	8-24-04106	Engine Air Cleaner Element	1
	7-24-04032	Hydraulic Return Filter Element	1
	7-24-04028-1	Hopper Panel Filter	1
ENGINE RELATED COMPONENTS			
Perkins Model 104.19 Diesel engine			
	2-60-02240	Engine Oil Filter	1
	2-60-02241	Fuel Filter	1
	2-60-02242	Belt - Alternator & Water Pump	1
	2-00-05047	Belt - Auxiliary Pump	1

SPARE PARTS KIT (GAS/LP - VARIABLE)

OPTION NO. 0780-361

<u>KEY NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
BROOM and HOPPER COMPONENTS			
	7-25-08036	Flap - Broom Chamber Front	1
	7-25-08032	Flap - Broom Chamber	1
	7-25-08034	Flap - Broom Chamber Rear Sides	2
	7-25-08033	Flap - Broom Door	2
	7-29-00226	Gasket - Broom Door	1
	7-25-08030	Flap - Hopper Lip	4
REAR SQUEEGEE COMPONENTS			
	7-77-00057	Rubber Main Outer Squeegee	1
	7-77-00069	Side Squeegees	2
	7-77-00070	Side Squeegee Back-up Rubber	2
FILTERS			
	8-24-04106	Engine Air Cleaner Element	1
	7-24-04032	Hydraulic Return Filter Element	1
	7-24-04028-1	Hopper Panel Filter	1
ENGINE RELATED COMPONENTS			
Ford LSG 423 gas/LPG engine			
	8-24-04128	Engine Oil Filter	1
	8-24-04129	Fuel Filter	1
	2-00-05100	Belt - Governor	1
	2-00-05099	Belt - Alternator	1
	2-00-05009	Belt - Auxiliary Pump	1

SPARE PARTS KIT (DIESEL - VARIABLE)

OPTION NO. 0780-362

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
---------	-------------	-------------	------

BROOM and HOPPER COMPONENTS

7-25-08036	Flap - Broom Chamber Front	1
7-25-08032	Flap - Broom Chamber	1
7-25-08034	Flap - Broom Chamber Rear Sides	2
7-25-08033	Flap - Broom Door	2
7-29-00226	Gasket - Broom Door	1
7-25-08030	Flap - Hopper Lip	4

REAR SQUEEGEE COMPONENTS

7-77-00057	Rubber Main Outer Squeegee	1
7-77-00069	Side Squeegees	2
7-77-00070	Side Squeegee Back-up Rubber	2

FILTERS

8-24-04106	Engine Air Cleaner Element	1
7-24-04032	Hydraulic Return Filter Element	1
7-24-04028-1	Hopper Panel Filter	1

ENGINE RELATED COMPONENTS

Perkins Model 104.19 Diesel engine

2-60-02240	Engine Oil Filter	1
2-60-02241	Fuel Filter	1
2-60-02242	Belt - Alternator & Water Pump	1
2-00-05047	Belt - Auxiliary Pump	1

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AMERICAN-LINCOLN TECHNOLOGY
RIDER SWEEPER / SCRUBBER
"BUMPER-TO-BUMPER" LIMITED WARRANTY

I. COVERAGE

A. Subject to the terms and limitations stated herein, American-Lincoln warrants, to the original purchaser only, to repair or replace, at its option and upon the terms set out below, this product or any parts thereof (excluding normal maintenance items) which are defective in materials or workmanship, for a period of (2) two years or 2,000 hours of normal operation from the date of purchase, whichever comes first, provided that the product is operated and maintained in accordance with American-Lincoln's Maintenance and Operations Instruction.

1. (a) During the first (90) ninety days from the date of purchase, American-Lincoln will provide, without charge, parts and on-site labor (including up to three (3) hours total round-trip travel time) to remedy a defective product or part.

(b) During the next (9) nine months or 1,000 hours (whichever come first) American-Lincoln will provide, without charge, parts and labor to remedy a defective product or part; however all travel time for on-site remedy and all shipping and freight charges for off-site remedy of the product or parts thereof shall be the sole responsibility of the purchaser.

(c) During the next (12) twelve months or a total of 2000 hours (whichever comes first) American Lincoln will provide, without charge, parts to remedy a defective product or part, however all labor, travel time for on-site remedy and all shipping and freight charges for off-site remedy of the product or parts thereof shall be the sole responsibility of the purchaser.

B. In addition to the terms listed above, if applicable, the following additional warranty coverage is applied.

1. (a) American-Lincoln warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the drive line electrical components including the electric drive propulsion motor, electric wheel drive motor and electronic drive controller, and all hydraulic pumps and motors, to provide replacement parts which are defective in material or workmanship, for a period of (3) years or 3000 hours (whichever comes first) provided that the product is operated and maintained in accordance with American-Lincoln's Maintenance and Operations Instruction.

(b) American Lincoln warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the internal combustion liquid cooled engine, to provide replacement parts which are defective in material or workmanship, for a period of (5) five years or unlimited hours of normal operation. All labor, travel time, shipping and freight charges shall be the sole responsibility of the purchaser.

(c) American-Lincoln, warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the main frame, debris hopper, solution tank, and the recovery tank, for the life of the machine against failure caused by defects in workmanship or total rust through. For purposes of this coverage, cosmetic deterioration or surface rust does not constitute a failure.

(d) American-Lincoln, warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the batteries which becomes unserviceable under normal use within a period of ninety (90) days from date of sale to the original user with new batteries of equal value. After expiration of the above ninety (90) day period, any battery which fails under normal use will be adjusted to the original user with a new battery of equal specifications on an eighteen (18) months pro rate basis from the date of purchase. Adjustment will be determined using the then current list price, plus transportation costs. Warranty is rendered NULL and Void if battery is not kept filled to the proper level with DISTILLED WATER.

II. EXCLUSIONS

- This warranty **does not** cover normal maintenance parts and labor, including but not limited to, rubber parts, seals, flaps, brushes, engine maintenance parts, hoses, carbon motor brushes, fluids and routine adjustments.
- This warranty **does not** cover damage or failure of the product or any parts thereof which is the result of misuse, negligent operation, handling or repair, or which is the result of modification by any person other than an authorized American-Lincoln service representative.

III. LIMITATIONS

A. AMERICAN-LINCOLN MAKES NO WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. AMERICAN-LINCOLN LIABILITY UNDER THIS WARRANTY IS LIMITED TO REPAIR AND/OR REPLACEMENT OF PRODUCTS OR PARTS AS SET OUT HEREIN. AMERICAN-LINCOLN SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM A PRODUCT OR PART DEFECT OR FAILURE. ANY EXTENSIONS OF OR MODIFICATIONS MADE TO THIS WARRANTY BY A DISTRIBUTOR OF AMERICAN-LINCOLN ARE THE SOLE RESPONSIBILITY OF THE DISTRIBUTOR.

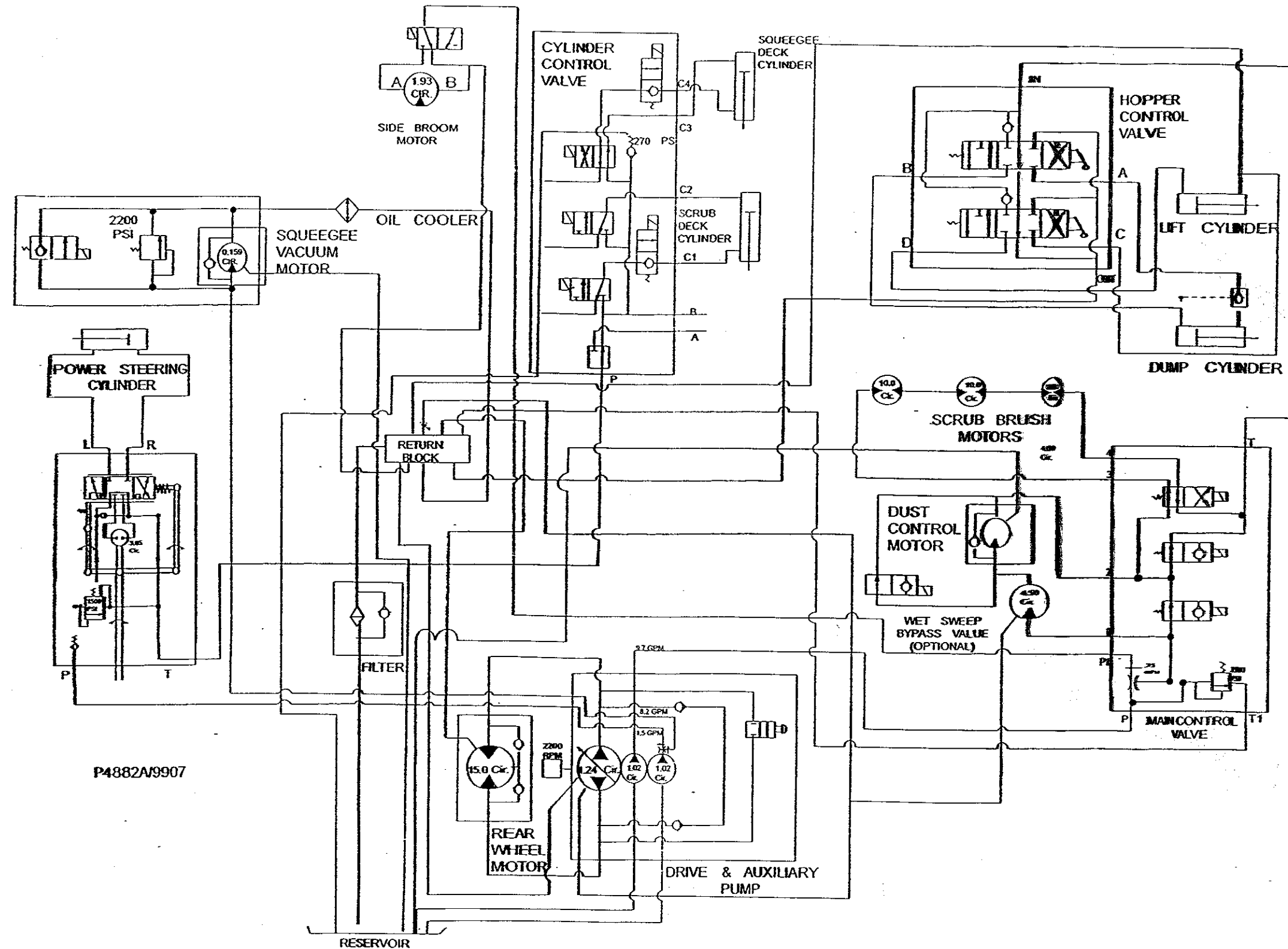
IV. PROCEDURES AND CONDITIONS FOR WARRANTY CLAIMS AMERICAN-LINCOLN SHALL NOT BE LIABLE FOR REPAIR OR REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART THEREOF UNLESS AND UNTIL THE ORIGINAL PURCHASER FULFILLS THE FOLLOWING CONDITIONS PRECEDENT TO RECOVERY UNDER THIS WARRANTY:

- The original purchaser shall promptly complete and return the warranty and installation registration form included with the product at the time of the purchase;
- Upon product or part failure, the original purchaser shall promptly provide notice thereof to his nearest authorized American-Lincoln Service Representative; and
- The original purchaser shall permit the product or part to be inspected by American-Lincoln or its authorized representatives, as necessary and expenses for shipping or travel time shall be borne by the parties itemized in paragraph I herein above.

American-Lincoln Technology reserves the right to make changes and improvements to its machines without notice. For best results, use only the correct American-Lincoln Service parts.

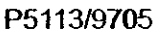
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1100 HASKINS ROAD
BOWLING GREEN, OHIO 43402

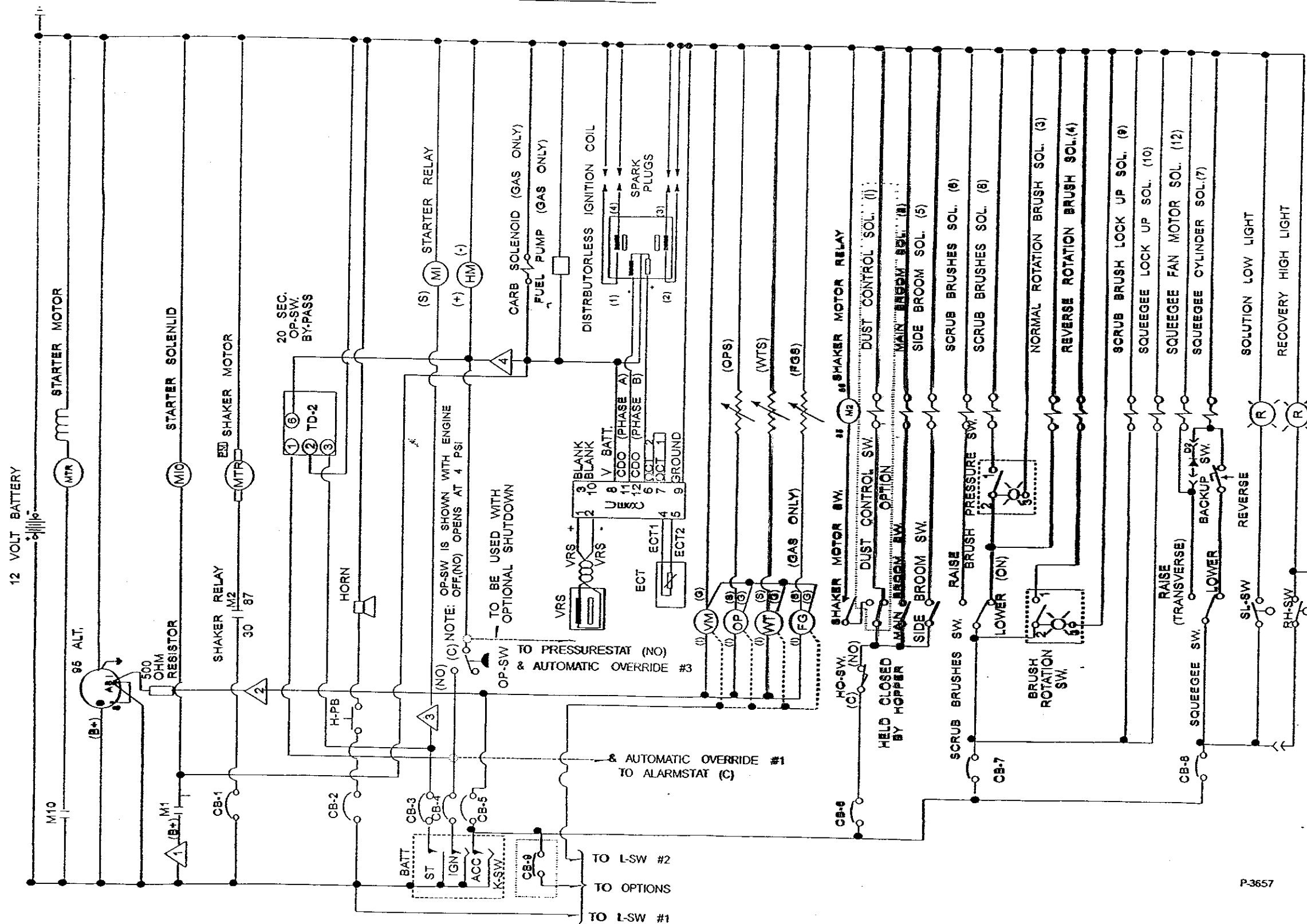
HYDRAULIC SCHEMATIC - VARIABLE DUMP





HYDRAULIC SCHEMATIC - MANUAL DUMP



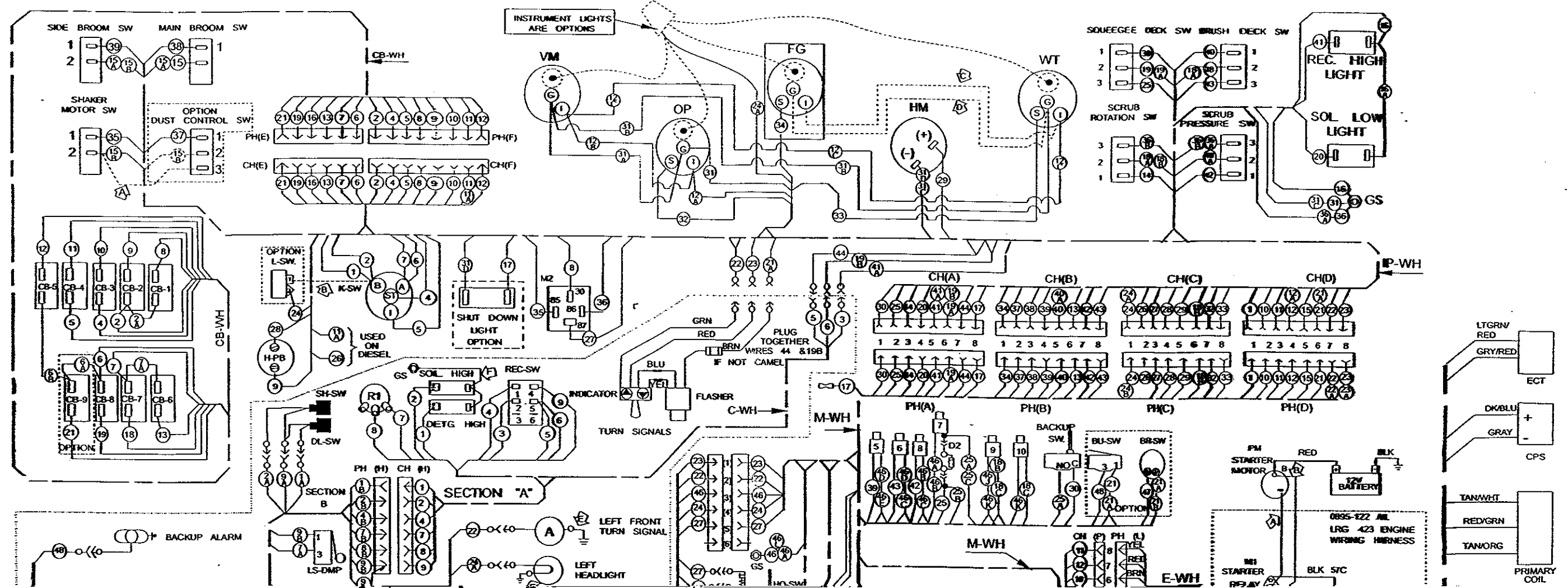




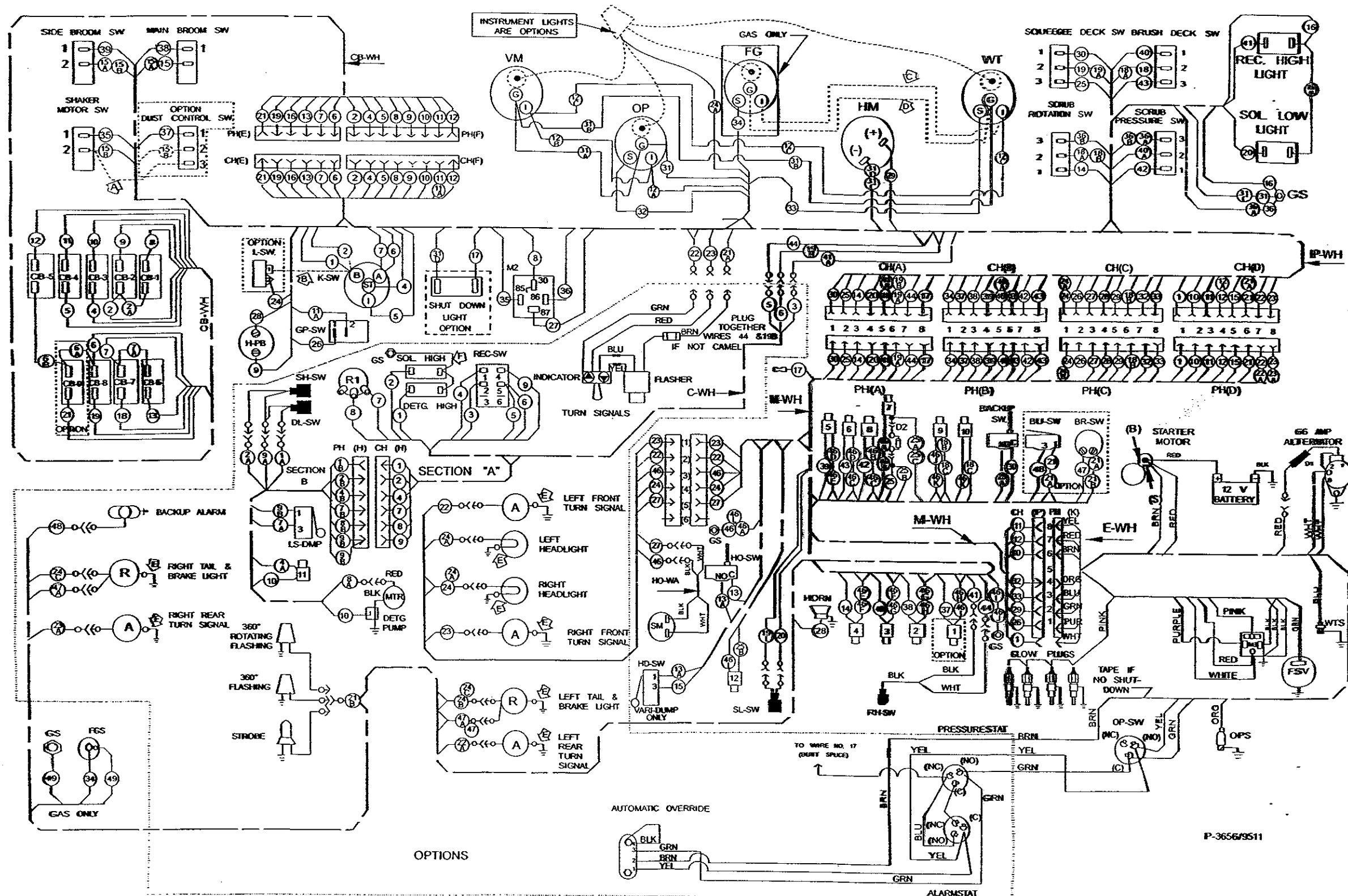




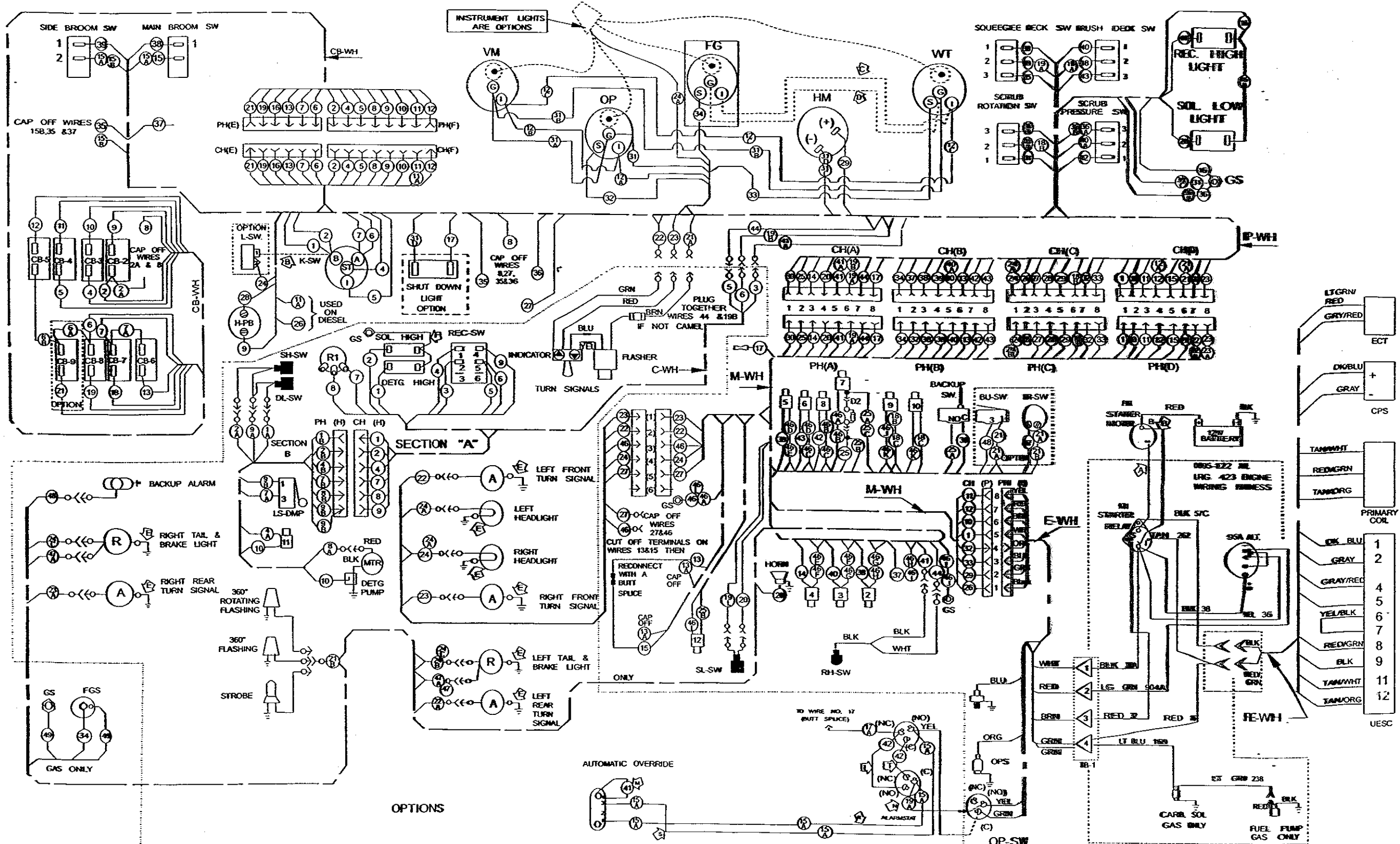
CONNECTION DIAGRAM (GAS - VARIABLE & LOW DUMPS



CONNECTION DIAGRAM (DIESEL - VARIABLE & LOW DUMPS)



CONNECTION DIAGRAM (GAS - MANUAL DUMP)



The diagram illustrates the electrical system for a vehicle, detailing the connections between various components. Key sections include:

- OPTION:** Shows connections for SIDE BROOM SW, MAIN BROOM SW, and CAP OFF WIRES 15B, 35 & 37.
- SECTION A:** Details the wiring for the front end, including LEFT FRONT TURN SIGNAL, LEFT HEADLIGHT, RIGHT HEADLIGHT, RIGHT FRONT TURN SIGNAL, LEFT TAIL & BRAKE LIGHT, and LEFT REAR TURN SIGNAL.
- SECTION B:** Details the wiring for the rear end, including RIGHT TAIL & BRAKE LIGHT, RIGHT REAR TURN SIGNAL, 360° ROTATING FLASHING, 360° FLASHING, and STROBE.
- OPTIONS:** Shows connections for various optional equipment, including a 66 AMP ALTERNATOR, 12 V BATTERY, and a 66 AMP ALTERNATOR.

The diagram also includes a reference number P-3653/9511.

