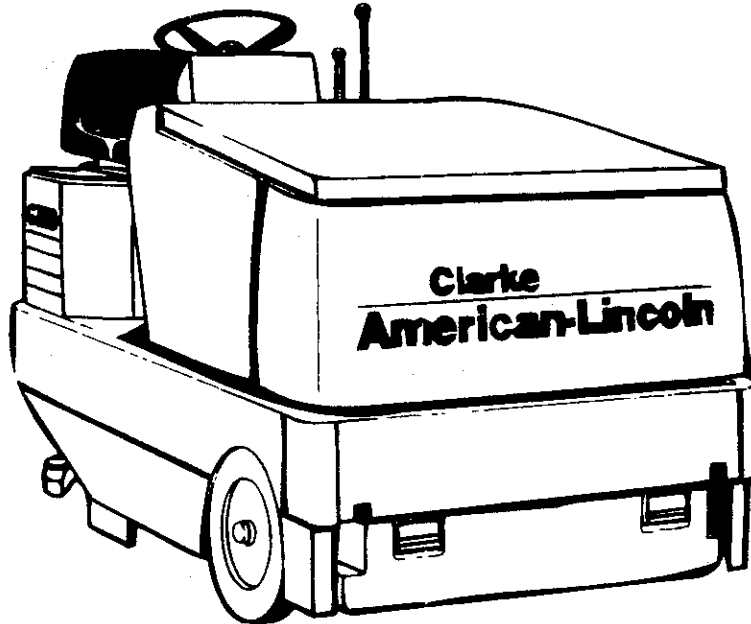


Clarke American-Lincoln®



Beginning with
Serial No. 660228

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Read and understand this book before starting the machine. Keep this book and tell all operators to read the book. If you do not follow the instructions, you can cause an injury, or damage equipment, furniture or buildings.

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:
Clarke/American-Lincoln, 1100 Haskins Road,
Bowling Green, Ohio 43402

**CALIFORNIA
PROPOSITION 65 WARNING**
Engine exhaust from this product
contains chemicals known to the State
of California to cause cancer, birth
defects, or other reproductive harm.

Operator's Manual Instruction Book and Parts List Model 6200 H Sweeper/Scrubber

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SPECIFICATIONS

MACHINE SPECIFICATIONS

POWER UNIT

KUBOTA WG750-B

Bore and Stroke	-	2.68" X 2.68"	68 mm x 68 mm
Oil Capacity	-	3.9 quarts	3.25 liters
Displacement	-	3 cylinders	45.2 cu.in. 740 cc
Fuel	-	Standard Automotive Gasoline	

DIMENSIONS

Length	-	80 inches	203.20 cm.
Width	-	46 inches	116.84 cm.
Height	-	54.5 inches	138.43 cm.
With Guard	-	84 inches	213.36 cm.
Wheel Base	-	50.75 inches	128.90 cm.

DRIVES

Propelling	-	Displacement Pump - Hydraulic Drive Motor	
Scrubbing	-	(3) Hydraulic Motors	
Sweeping	-	(1) Hydraulic Motor	
Vacuum	-	(2) 3/4 HP Turbines	

CONTROLS AND INSTRUMENTS

Keyed Ignition
Horn Button
Hour Meter
Full Recovery Tank Level Light
Low Solution Light
Warning Light Cluster - Oil, Water & Charge
Switch Activated Squeegee
Single Foot Pedal Controls Forward, Neutral, Reverse, and Dynamic Braking.
Single Lever Controls Scrub Deck Lift and Automatically Activates the Brushes.
Single Lever Controls Broom Lift and Automatically Activates the Brooms.
Single Lever Controls Solution Flow.
Steering - Standard Automotive Type Cam and Lever with 15" (38.1 cm.) Steering Wheel.
Brakes - PARKING - Foot Operated and Locked Disc Brakes

SWEEPING SYSTEMS

Type - Direct Throw Method with a Cylindrical Broom.

Hopper - Holds 3 CU. FT. (.085 cu. meters)

Main Broom

Length	-	40 Inches	101.6 cm.
Diameter	-	11 Inches	27.94 cm.
Bristle Length	-	3 Inches	7.62 cm.

Features One-piece Plastic Core Disposable, Standard Proex and Wire Broom.

SCRUBBING SYSTEM

Brushes (3) 14 inch diameter gimble mounted disc type
Squeegee (1) 46 inch wide contoured rear squeegee with (2) side squeegees.

Tank Capacity - 60 gallon (227.1 Liters) Solution Tank
- 60 gallon (227.1 Liters) Recovery Tank

SYSTEM FLUID CAPACITIES

Hydraulic System - 7.5 gallons 28.4 liters

GENERAL MACHINE PERFORMANCE

Sweeping Path - 40 Inches 101.6 cm.

Scrubbing Path - 40 Inches 101.6 cm.

Travel Speed - 0 - 4 MPH 0 - 6.4 KPH

Right Hand Turning Radius - 88 Inches 224 cm.

Left Hand Turning Radius - 80 Inches 203 cm.

OPTIONS

Back Up Alarm

Broom Options

Proex and Wire

Proex

Nylon

Brush Options

Bassine

Amerfil .025

Amerfil .040

Supergrit

Nylon

Fire Extinguisher

Head, Tail and Instrument Lights

Warning Lights

Overhead Guard

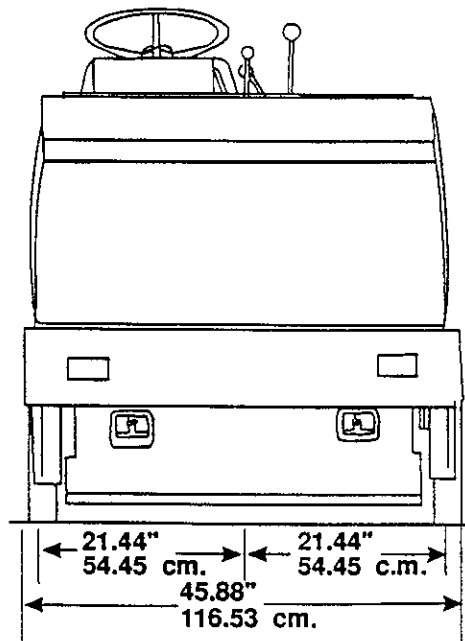
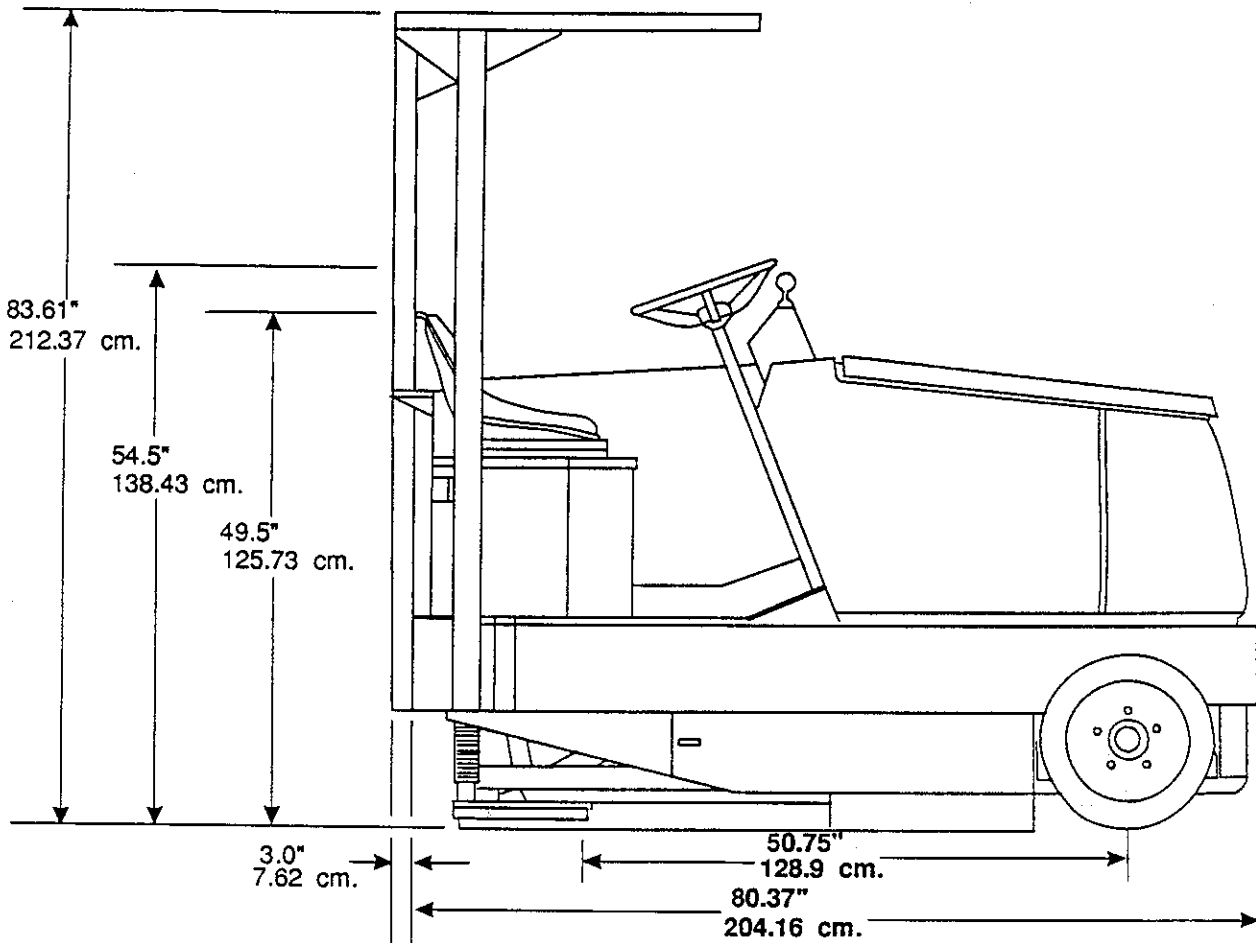
Suspension Seat

Squeegee Wand

WEIGHTS

6200 H Gas Standard Machine - 1950 LBS. 884.5 KGS

MACHINE DIMENSIONS - 6200



P-5031

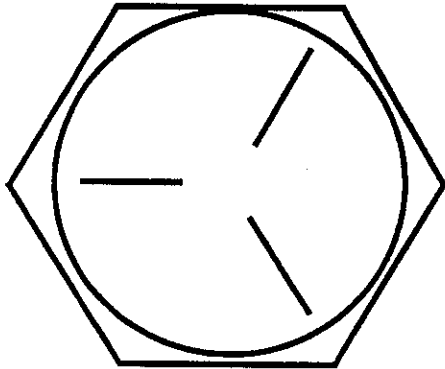
DECIMAL - METRIC CONVERSION TABLE

Fraction	Decimal	Millimeter	Fraction	Decimal	Millimeter
$\frac{1}{64}$	.015625	.3969	$\frac{33}{64}$	.515625	13.0969
$\frac{1}{32}$	.03125	.7938	$\frac{7}{32}$	.53125	13.4938
$\frac{3}{64}$	.046875	1.1906	$\frac{35}{64}$	.546875	13.8906
$\frac{1}{16}$	.0625	1.5875	$\frac{9}{16}$	.5625	14.2875
$\frac{5}{64}$	.078125	1.9844	$\frac{37}{64}$	.578125	14.6844
$\frac{3}{32}$	.09375	2.3813	$\frac{19}{32}$	.59375	15.0813
$\frac{7}{64}$	.109375	2.7781	$\frac{39}{64}$	.609375	15.4781
$\frac{1}{8}$	.125	3.1750	$\frac{5}{8}$	.625	15.8750
$\frac{9}{64}$	.140625	3.5719	$\frac{41}{64}$	.640625	16.2719
$\frac{5}{32}$	.15625	3.9688	$\frac{21}{32}$	.65625	16.6688
$\frac{11}{64}$	.171875	4.3656	$\frac{43}{64}$	.671875	17.0656
$\frac{3}{16}$	.1875	4.7625	$\frac{11}{16}$	.6875	17.4625
$\frac{13}{64}$	.203125	5.1594	$\frac{45}{64}$	.703125	17.8594
$\frac{7}{32}$	.21875	5.5563	$\frac{23}{32}$	.71875	18.2563
$\frac{15}{64}$	.234375	5.9531	$\frac{47}{64}$	.734375	18.6531
$\frac{1}{4}$	.25	6.3500	$\frac{3}{4}$	.75	19.0500
$\frac{17}{64}$	.265625	6.7469	$\frac{49}{64}$	.765625	19.4469
$\frac{9}{32}$	.28125	7.1438	$\frac{25}{32}$	.78125	19.8438
$\frac{19}{64}$	.296875	7.5406	$\frac{51}{64}$	.796875	20.2406
$\frac{5}{16}$	.3125	7.9375	$\frac{13}{16}$	.8125	20.6375
$\frac{21}{64}$	.328125	8.3344	$\frac{53}{64}$	.828125	21.0344
$\frac{11}{32}$	.34375	8.7313	$\frac{27}{32}$	.84375	21.4313
$\frac{23}{64}$	.359375	9.1281	$\frac{55}{64}$	.859375	21.8281
$\frac{3}{8}$	.375	9.5250	$\frac{7}{8}$	.875	22.2250
$\frac{25}{64}$	.390625	9.921	$\frac{57}{64}$	.890625	22.6219
$\frac{13}{32}$	.40625	10.3188	$\frac{29}{32}$	.90625	23.0188
$\frac{27}{64}$	.421875	10.7156	$\frac{59}{64}$	.921875	23.4156
$\frac{7}{16}$	.4375	11.1125	$\frac{15}{16}$	.9375	23.8125
$\frac{29}{64}$	.453125	11.5094	$\frac{61}{64}$	.953125	24.2094
$\frac{15}{32}$	.46875	11.9063	$\frac{31}{32}$	.96875	24.6063
$\frac{31}{64}$	.484375	12.3031	$\frac{63}{64}$	.984375	25.0031
$\frac{1}{2}$	.50	12.7000	1	1.0	25.4001

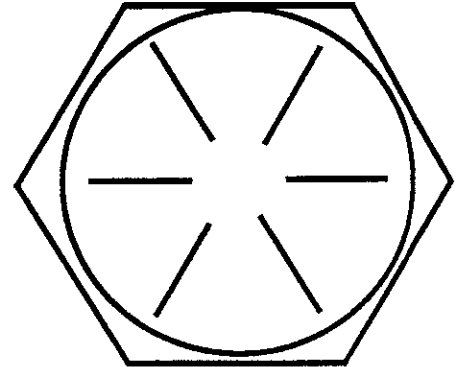
STANDARD HARDWARE & TORQUE VALUES

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	84	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


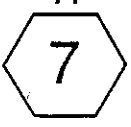
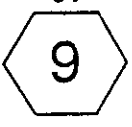
* = Torque values for #6 through 1/4 are lb/in. All others are lb/ft.

NOTE

Decrease the torque by 20% when using thread lubricant.
The torque tolerance is $\pm 10\%$ on torque values.

STANDARD METRIC TORQUE VALUES

When the tightening torques are not specified, tighten the bolts and nuts according to the table below.

GRADE		No-grade or 4T  SS41, S20C			7T  S43C, S48C			9T  SCr435, SCM435		
Nom. Dia.	Unit	N.m	kgf.m	ft-lbs	N.m	kgf.m	ft-lbs	N.m	kgf.m	ft-lbs
M6 (6mm, 0.24 in.)		7.85	0.80	5.79	9.81	1.00	7.23	12.26	1.25	9.04
		to 9.32	to 0.95	to 6.87	to 11.28	to 1.15	to 8.32	to 14.22	to 1.45	to 10.49
M8 (8mm, 0.31 in.)		17.7	1.8	13.0	23.5	2.4	17.4	29.4	3.9	21.7
		to 20.6	to 2.1	to 15.2	to 27.5	to 2.8	to 20.3	to 34.3	to 3.5	to 25.3
M10 (10mm, 0.39 in.)		39.2	4.0	28.9	48.1	4.9	35.4	60.8	6.2	44.8
		to 45.1	to 4.6	to 33.3	to 55.9	to 5.7	to 41.2	to 70.6	to 7.2	to 52.1
M12 (12mm, 0.47 in.)		62.8	6.4	46.3	77.5	7.9	57.1	103.0	10.5	75.9
		to 72.6	to 7.4	to 53.5	to 90.2	to 9.2	to 66.5	to 117.7	to 12.0	to 86.8

ENGINE TORQUE REQUIREMENTS

Screws, bolts and nuts must be tightened to the specified torque using a torque wrench. Several screws, bolts and nuts such as those used on the cylinder head must be tightened in proper sequence and at the proper torque.

TIGHTENING TORQUES FOR SPECIAL USE BOLTS AND NUTS

ITEM	Size & Pitch	N.m	kgf.m	ft-lbs
* Head Cover Cap Nuts	M6 x 1.0	3.9 to 5.9	0.4 to 0.6	2.9 to 4.3
* Head Bolts	M8 x 1.25	37.2 to 42.1	3.8 to 4.3	28.9 to 32.5
* Bearing Case Bolts 1	M6 x 1.0	12.7 to 15.7	1.3 to 1.6	9.4 to 11.6
* Bearing Case Bolts 2	M7 x 1.0	26.5 to 30.4	2.7 to 3.1	19.6 to 22.5
* Flywheel Bolts	M10 x 1.25	53.9 to 58.8	5.5 to 6.0	39.8 to 43.4
* Connecting Rod Bolts	M6 x 0.75	26.5 to 30.4	2.7 to 3.1	10.8 to 13.7
* Rocker Arm Bracket Bolts	M6 x 1.0	9.81 to 11.28	1.00 to 1.15	7.23 to 8.32
* Idler Gear Shaft Bolts	M6 x 1.0	9.81 to 11.28	1.00 to 1.15	7.23 to 8.32
Spark Plugs	M14 x 1.25	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Drain Plug	M12 x 1.25	32.4 to 37.3	3.3 to 3.8	23.9 to 27.5
Oil Switch Taper Bolt	PT 1/8	14.7 to 19.6	1.5 to 2.0	10.8 to 14.5
* Crankshaft Bolt	M12 x 1.5	98.1 to 107.9	10.0 to 11.0	72.3 to 79.6

NOTE

For "*" marked bolts and nuts in the table, apply engine oil to their threads and seats before tightening.

Screw and bolt material grades are shown by numbers punched on the screw and bolt heads.

HYDRAULIC TORQUE REQUIREMENTS

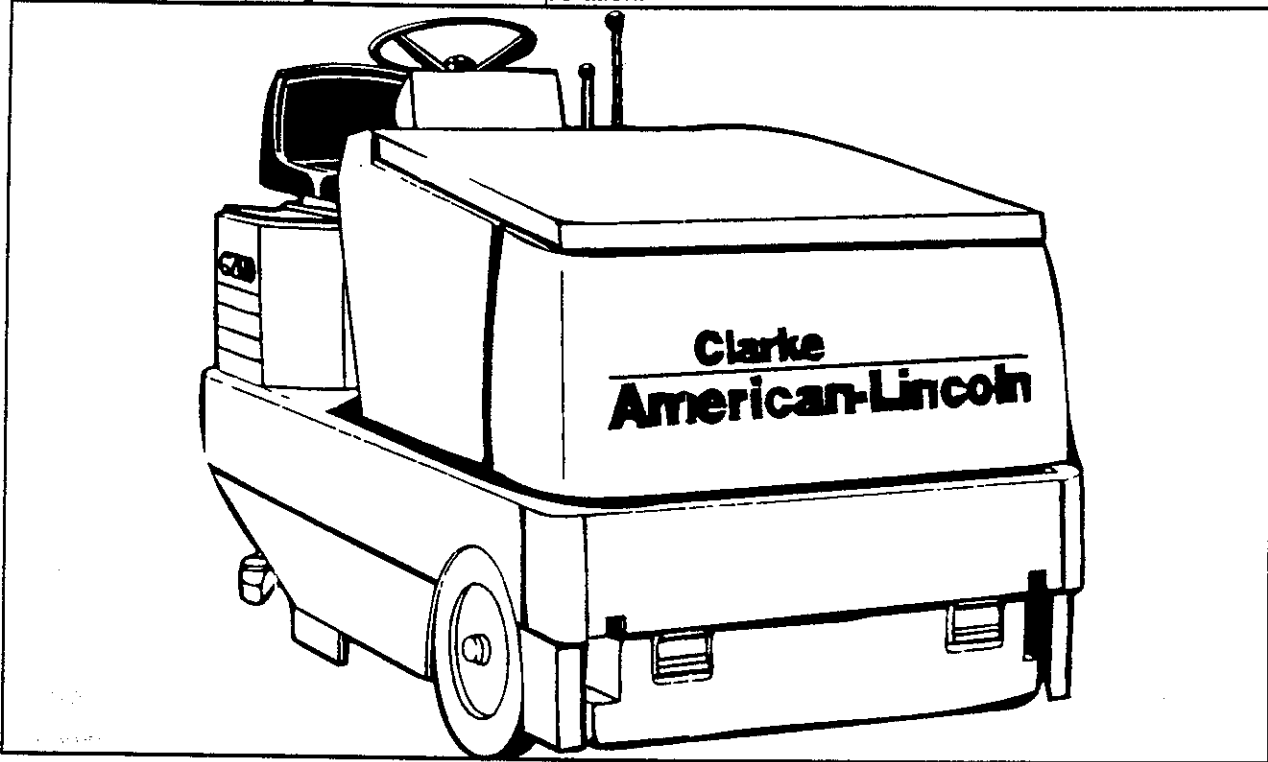
Nominal SAE Dash Size	O-Ring Face Seal End		SAE O-Ring Boss End	
	Thread Size Inch	Swivel Nut Torque	Thread Size Inch	Str. Fitting or Locknut Torque
		LB-FT		LB-FT
-3	*	*	3/8-24	8-10
-4	9/16-18	10-12	7/16-20	14-16
-5	*	*	1/2-20	18-20
-6	11/16-16	18-20	9/16-18	24-25
-8	13/16-16	32-35	3/4-16	50-60
-10	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.

MACHINE PREPARATION

Unpacking and Preparing the Machine For Operation.



P-5033

Figure 1

Unpacking and Preparing the Machine for Operation

YOUR MODEL 6200H GAS/LP SWEEPER-SCRUBBER HAS BEEN SHIPPED COMPLETE, BUT **DO NOT** ATTEMPT TO OPERATE WITHOUT READING THE FOLLOWING INSTRUCTIONS.

1. Uncrate the machine and carefully remove from skid to prevent damage.
2. Connect and tighten battery cables.
3. Fill tank with UNLEADED gasoline.



WARNING

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

4. 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.
5. 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.
6. Check oil level in the hydraulic reservoir located below the engine. The hydraulic reservoir is full, if oil can be seen on the dipstick located on the reservoir breather - filler cap. Full is indicated by the upper line, add by the lower line. If oil is required, add HYDRAULIC FLUID ONLY, automatic transmission fluid FORD type "F" ATF.

NOTE

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 INSTRUCTIONS



WARNING

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.

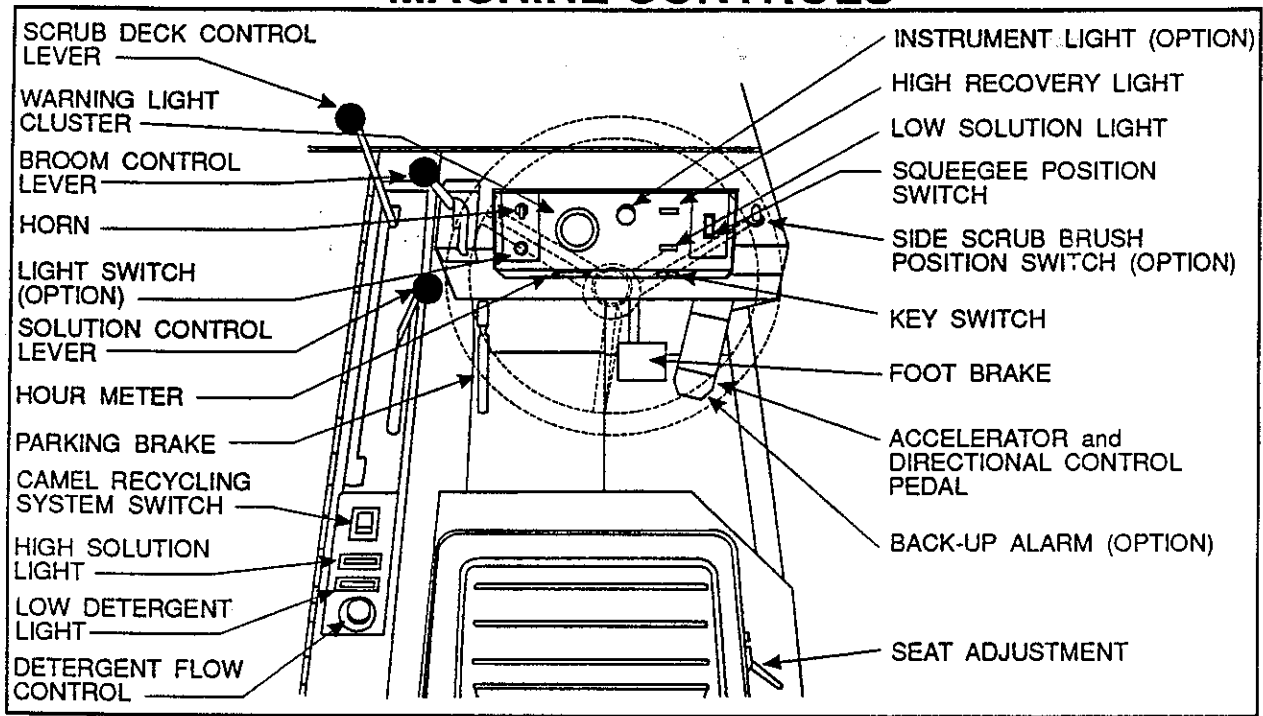
1. To avoid possible injury or property damage, read the operator's manual before using the machine.
2. Fire hazard. Fine dust, fuels solvents and thinners can explode and cause severe burns.
3. Do not use with/ or near flammable materials or vapors. Use only with good ventilation.
4. Heavy machinery, improper use can cause personal injury.
5. 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.
6. Do not leave the machine on a ramp or dock. After stopping the machine, turn all the switches off.
7. Operate only when lids, doors, and access panels are securely closed.
8. The operator must exhibit extreme caution when negotiating, turning and traveling across grades or ramps.
9. Start, stop, change direction, travel and brake smoothly. Slow down when turning. Avoid uneven surfaces and loose materials.
10. Watch out for obstructions, especially overhead.
11. Carry no passengers on the machine.
12. 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.
13. Never leave the operator's seat with the engine running.
14. Report damage or faulty operation immediately. Do not operate the machine until repairs have been completed.
15. Maintenance and repairs must be done by authorized personnel only.



WARNING

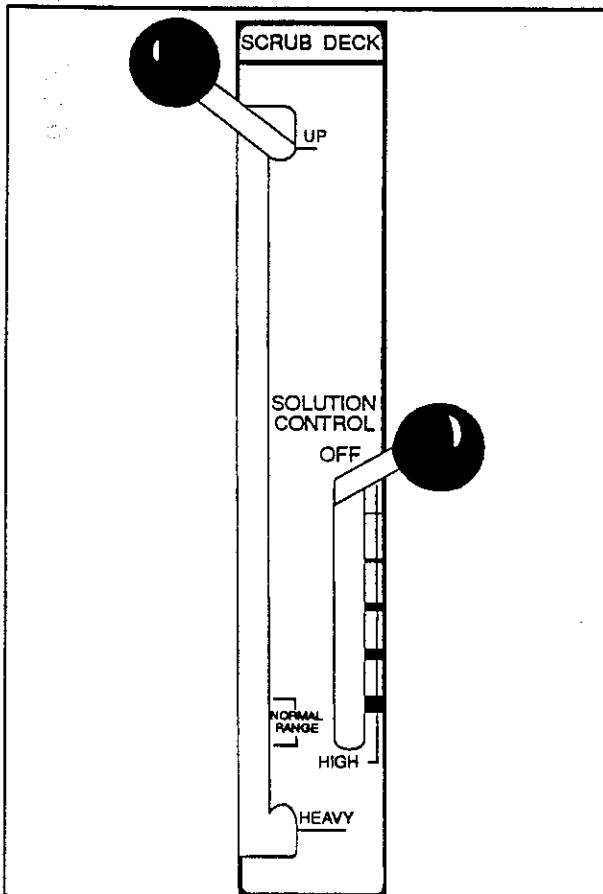
TO MAINTAIN THE STABILITY OF THIS SWEEPER IN NORMAL OPERATION, THE COUNTERWEIGHTS, OVER-HEAD GUARD, REAR BUMPER GUARD, OR ANY SIMILAR EQUIPMENT, INSTALLED BY THE MANUFACTURER AS ORIGINAL EQUIPMENT, SHOULD NEVER BE REMOVED. IF IT BECOMES NECESSARY TO REMOVE SUCH EQUIPMENT FOR REPAIR OR MAINTENANCE. THIS EQUIPMENT MUST BE REINSTALLED BEFORE THE SWEEPER IS PLACED BACK IN OPERATION.

MACHINE CONTROLS



P-5034

Figure 2



P-5035

Figure 3

SCRUB DECK LEVER

The lever is located on the console to the left of the steering wheel in the "SCRUB DECK" section. This lever in the position marked "NORMAL RANGE" will lower the scrub brush deck and activate the three scrub brushes. This lever in the "UP" position will stop the brushes from rotating and raise the scrub brush deck. The lever in the "HEAVY" position will allow more aggressive scrubbing pressure.

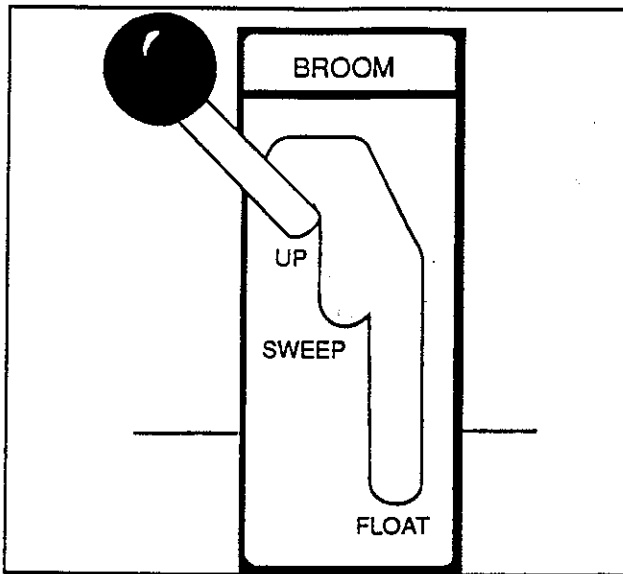
SOLUTION CONTROL LEVER

To apply solution to the scrubbing brushes, pull the solution control lever back until the desired setting is reached. The solution rate is continuously variable from off to approximately 3.00 GPM (11.35 LPM) at high. To stop application of solution, push 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.

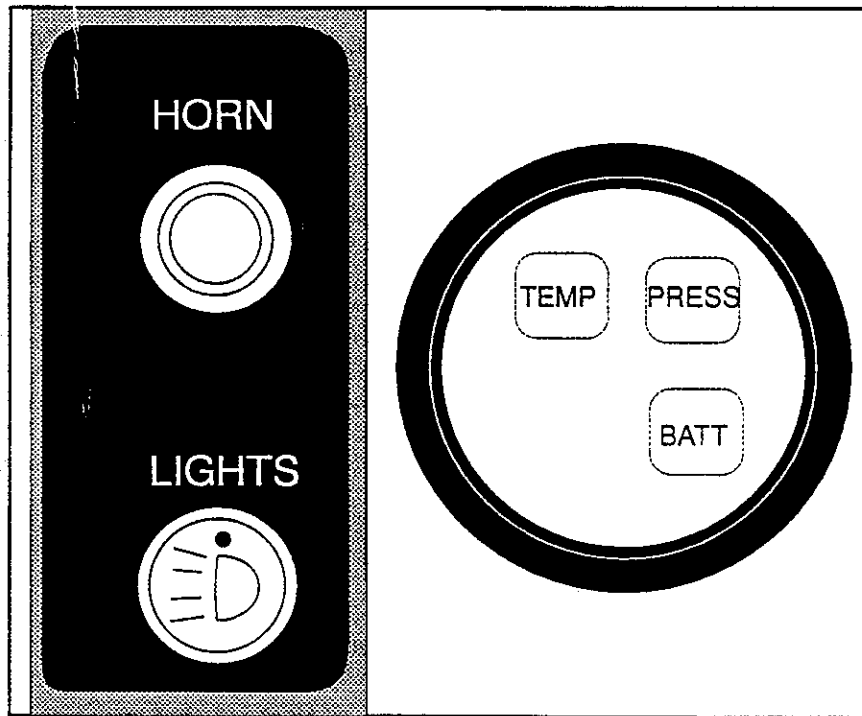


P-5037

Figure 4

MAIN BROOM LEVER (SWEEPER SCRUBBER)

The main broom lift control is located to the left of the steering column. To lower the main broom, grasp the lever and push it up and to the right to clear the locking notch. Move the lever down to the first or second notch in the elongated slot. The first notch, "SWEEP", is for normal sweeping (1.5 to 2 inch [3.8 to 5 cm] broom pattern). The second notch, "FLOAT", is for heavy sweeping (3 to 4 inch [7.6 to 10 cm] broom pattern). To raise the main broom, push the lever up and slide into the locking notch in the "UP" position. You may operate the main broom in either the "SWEEP" or "FLOAT" position. The "SWEEP" position is used for normal sweeping and will result in increased broom life. The "FLOAT" position is used only when sweeping very uneven areas. The broom will start when the broom lift control is the up position.



C-0148

Figure 5

WARNING LIGHT CLUSTER

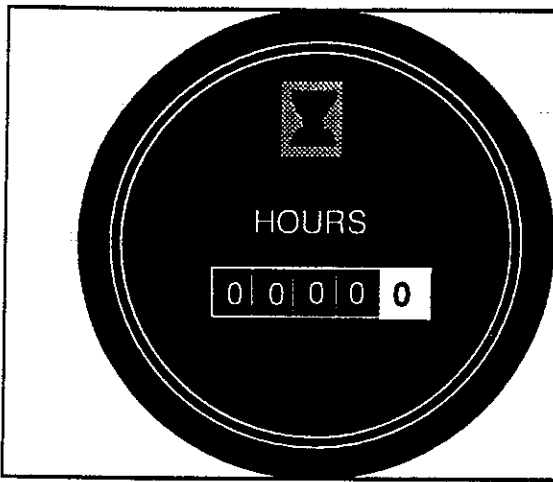
The meter indicates with red warning lights when there is low oil pressure, high water coolant temperature and no charge to the battery.

HORN BUTTON

The horn can be activated in the "ON" key position.

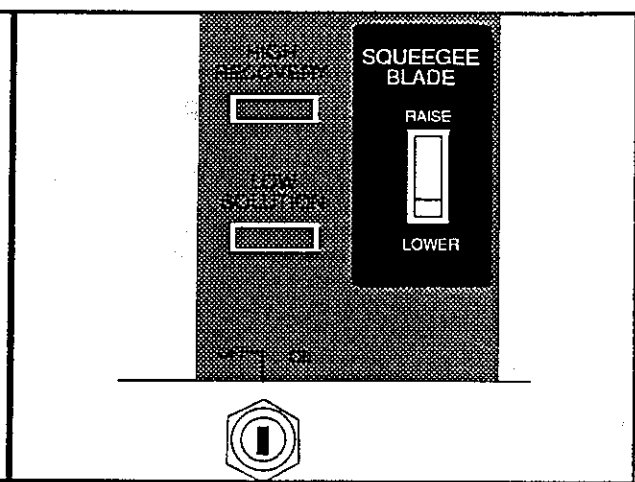
LIGHT SWITCH (OPTION)

The light switch will activate any of the light options. The switch is active at all times.



P-5040

Figure 6



P-5039

Figure 7

HOUR METER

The hour meter is activated when the key switch is in the "on" position. The meter indicates actual "run" time of the machine.

SQUEEGEE BLADE SWITCH

The Squeegee Blade Switch is located on the console to the right of the steering wheel in the "SQUEEGEE BLADE" 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. The squeegee will lift up when the machine travels in reverse.

HIGH RECOVERY WARNING LIGHT

The High Recovery Warning Light is located on the console to the right of the steering wheel beside the "SQUEEGEE BLADE" section. The recovery warning light will illuminate and stay on 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 right of the steering wheel beside the "SQUEEGEE BLADE" section. The Solution Warning Light will illuminate when the solution tank is empty, marking the end of the scrubbing cycle.

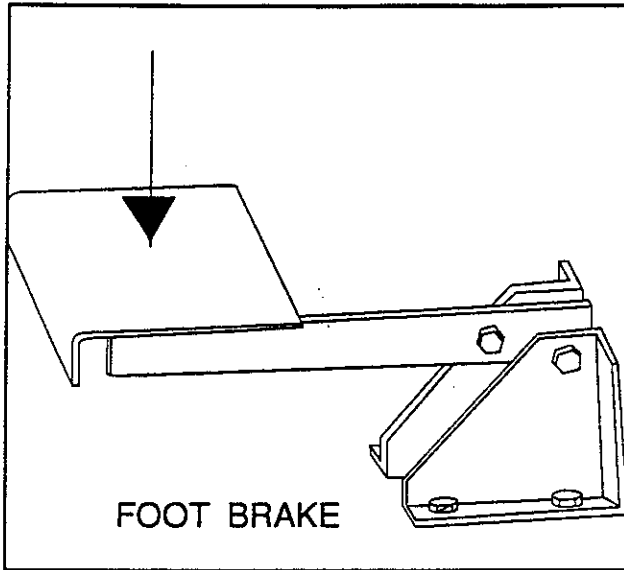
KEY SWITCH

The key switch is located to the right of the steering column and below the low solution light on the instrument panel.

The key turned to the center "OFF" position will shut off the engine.

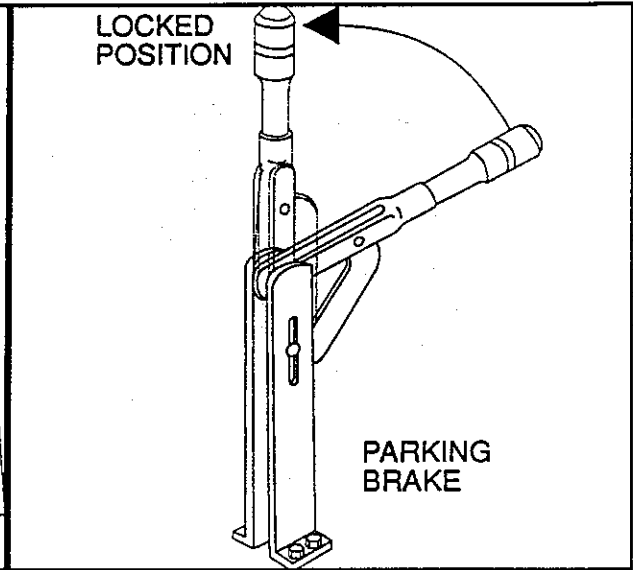
The key turned to the "ON" position, will activate all machine systems and is considered the run position. Rotate the key clockwise past the "ON" position activates the engine starter. This position is a momentary position so once the engine starts, release the key to return it to the "ON" or run position.

The key turned one position counterclockwise from the "OFF" position is considered the accessory position. This position will activate all machine system except those that are engine related.



P-4689

Figure 8



P-4691

Figure 9

FOOT BRAKE

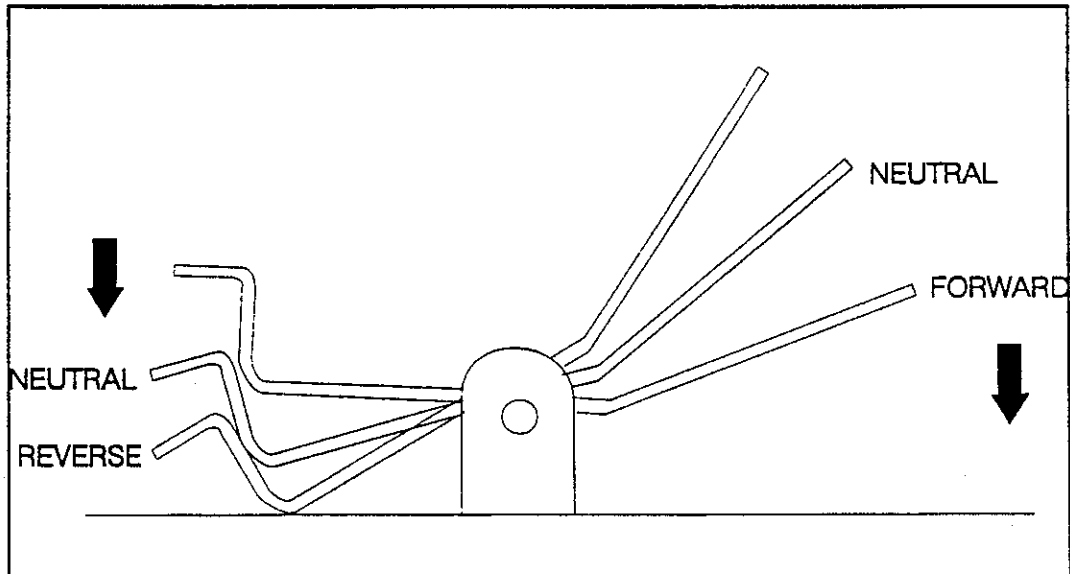
The foot brake pedal is located to the right of the steering column on the floor of the driver compartment. The foot brake on front wheels is a mechanical system actuated by the brake pedal.

BACK UP ALARM OPTION

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

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.



P-4066

Figure 10

ACCELERATOR and DIRECTIONAL CONTROL PEDAL

The accelerator and directional control pedal is located on the floor of the operator's area, to the right of the parking 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 marked "FORWARD". The machine will move forward.
2. Increase the foot pressure on the "FORWARD" portion of the pedal to increase the forward speed.
3. Put foot pressure on the lower portion of the pedal marked "REVERSE". The machine will move in reverse.
4. Increase the foot pressure on the "REVERSE" portion of the pedal to increase the reverse speed.
5. 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 "REVERSE" portion of the pedal. If the machine is moving in reverse, put light foot pressure on the "FORWARD" portion of the pedal.

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.

THE SWEEPING SYSTEM - HOW IT WORKS SWEEPER SCRUBBER

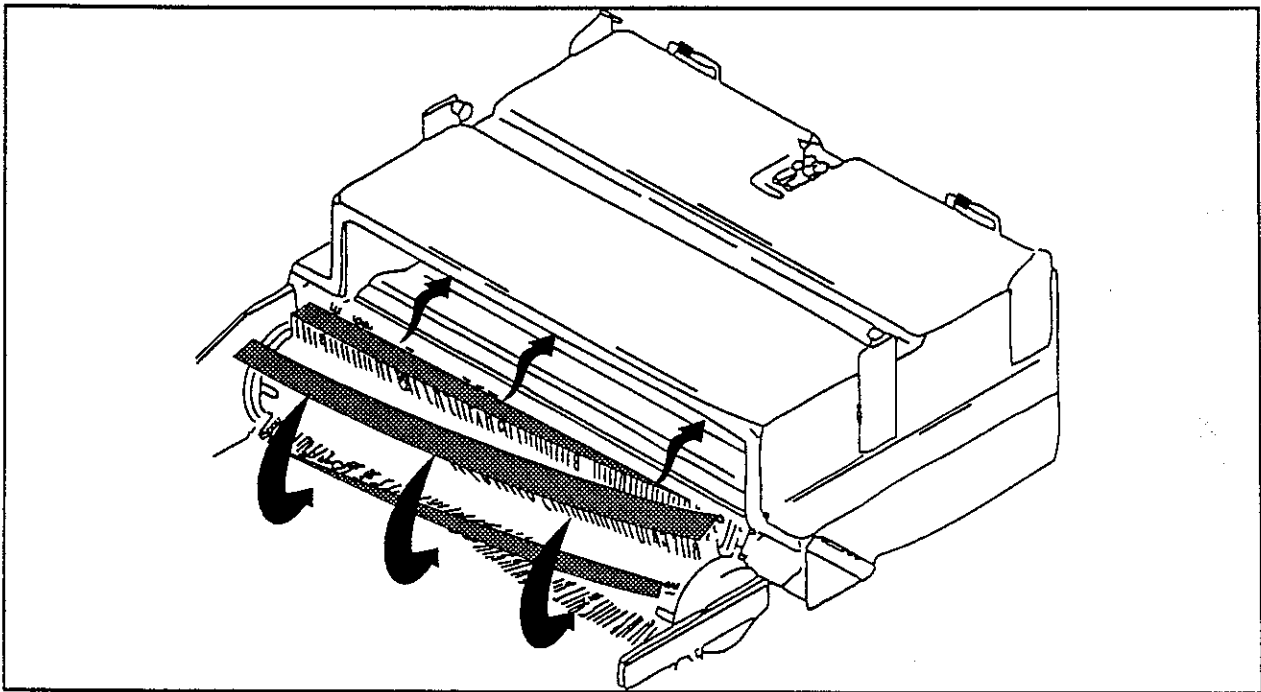
All the 6200 machines are equipped with a sweeping system. The debris from sweeping is thrown into the hopper.

THE SCRUBBING SYSTEM - HOW IT WORKS

THE STANDARD SCRUBBING SYSTEM - HOW IT WORKS

During the scrubbing process, 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.

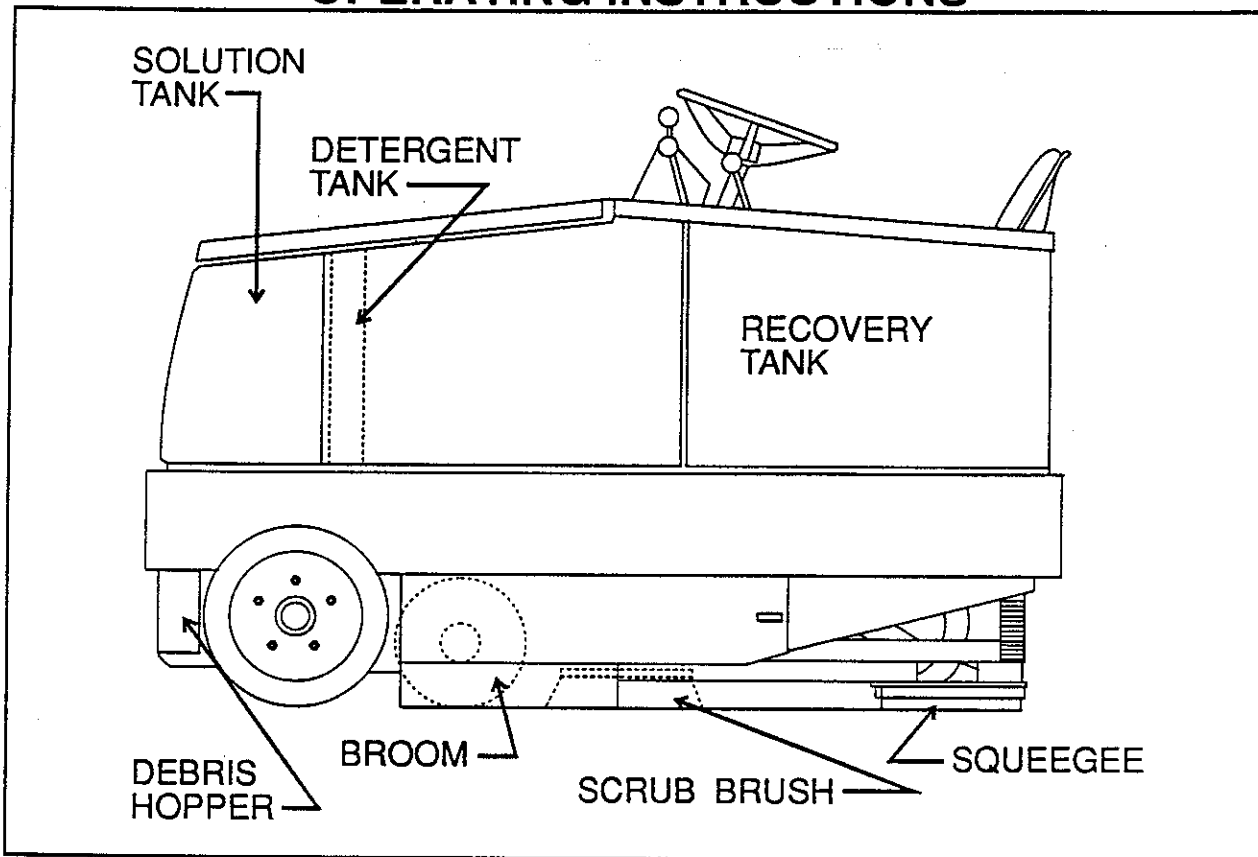
After scrubbing, the dirty solution is vacuumed from the floor and discharged into the recovery tank. Sensors in each tank will indicate by lights on the control panel when the water in the solution tank is too low or when the water in the recovery tank is too high.



P-5043

Figure 11

OPERATING INSTRUCTIONS



P-5052

Figure 12

TO FILL SOLUTION TANK (Standard System)

Open the solution tank cover and lid located at the front of the machine. Fill tank with 60 gallons of water and the correct mixture of Clarke/American-Lincoln #100 Industrial Cleaner for the job on hand, first making sure that the solution control lever is in the "Off" (forward) position.

NOTE

Before starting, perform the pre-start checks.

PRE-START CHECKLIST

1. Check brakes and controls for proper operation
2. Make sure all controls are in the "Off" position
3. Be sure accelerator and directional control pedal is in the neutral position.

STARTING

1. Release the parking brake.
2. Turn key to "On" position.

POST START CHECKLIST (MOTOR RUNNING)

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

TO TRANSPORT MACHINE

1. Be sure the sweeping broom, brushes and squeegee are in the "UP" or "RAISED" position with all other controls in the "OFF" position.
2. Release parking brake.
3. Push forward on the directional control pedal to place the machine in motion.
4. Vary your foot pressure on the directional control pedal to obtain desired travel speed.
5. To stop, allow directional control pedal to return to neutral (centered) position. (Pedal will automatically return to neutral when foot pressure is released).
6. Set parking brake.

TO BEGIN THE CLEANING OPERATION

1. Lower sweeping broom (Sweeper Scrubber).
2. Move the control levers into their operation positions.
 - a. BROOM = SWEEP or FLOAT
3. Sweep for the length of the machine.
4. Lower brushes to the desired position.
 - a. SCRUB DECK = NORMAL RANGE or HEAVY
5. Place the squeegee switch in the lower position.
 - a. SQUEEGEE BLADE = LOWER
6. Move solution control lever to the desired setting and begin operation.
 - a. SOLUTION CONTROL = Move lever to desired range

Sweeping and scrubbing 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 the forward position for transport and drive to the drain area.

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

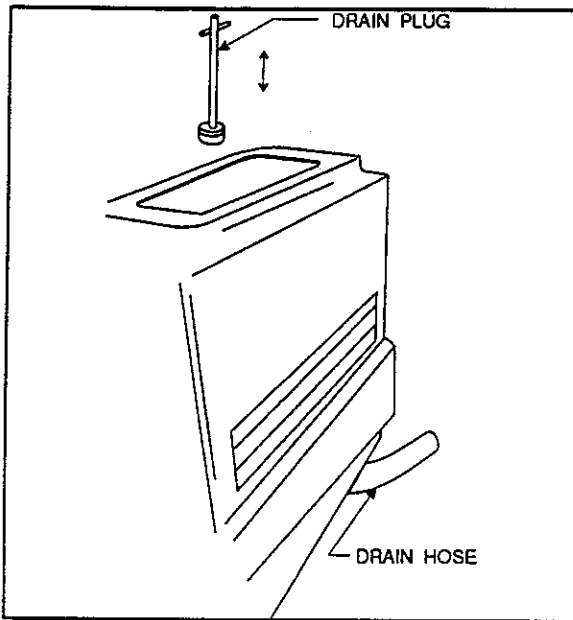
After stopping the engine, perform these post operation checks.

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 recovery tank. See Figure 13.
5. Clean recovery tank screen and float.
6. Check scrub brushes for wear or damage.
7. Check rear and side squeegees for wear, damage and adjustment.

TO CLEAN SOLUTION TANK

Put the hopper in the dump position. Flush all deposits from the tank. When the cleaning operation is completed, replace the plug. Put the cover in place and close the lid. Put the hopper in the sweep position.

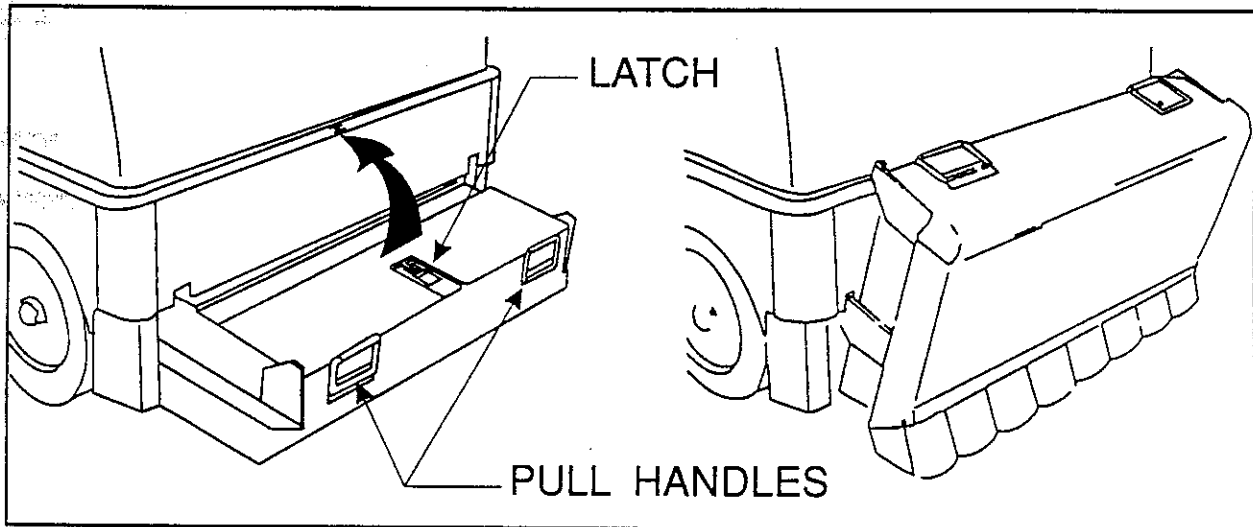


P-5044

Figure 13

TO DRAIN RECOVERY TANKS

A drain hose for the recovery tank is located underneath the rear of the machine. To drain the tank, completely open the recovery cover and lid, lower the hose and place in a suitable floor drain. Remove the drain plug. When the draining operation is completed, flush and clean recovery tank. Place the drain hose on the holder. Put the cover in place and close the lid.

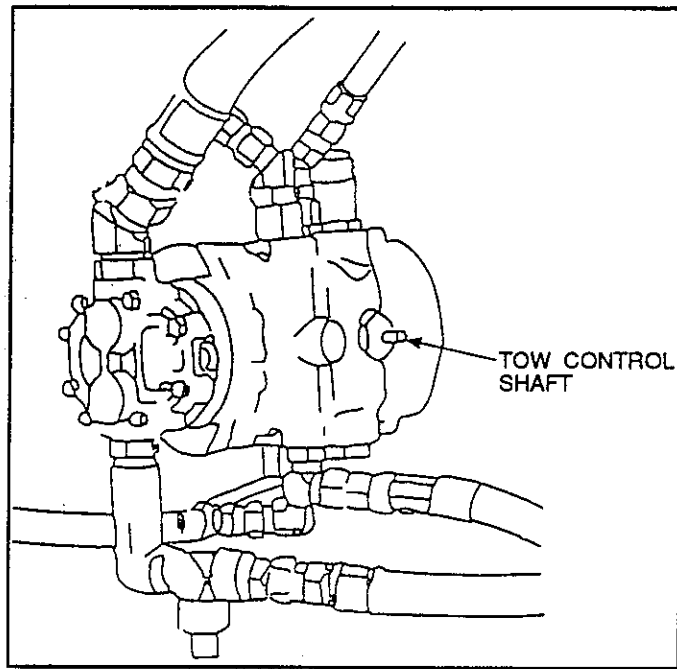


P-5045

Figure 14

TO EMPTY DEBRIS HOPPER (SWEEPER SCRUBBER)

1. Transport or sweep and scrub to the dump site.
 2. Make sure the key switch is "OFF", the parking brake is set and the broom is up, before dismounting the machine.
 3. Pull out the hopper and pull up. Latch the hopper.
 4. Back the machine away from the debris pile.
 5. Dispose of the debris in a proper container.
 6. Re-install hopper.
- or
3. Remove hopper from machine and dump.
 4. Return hopper to machine.



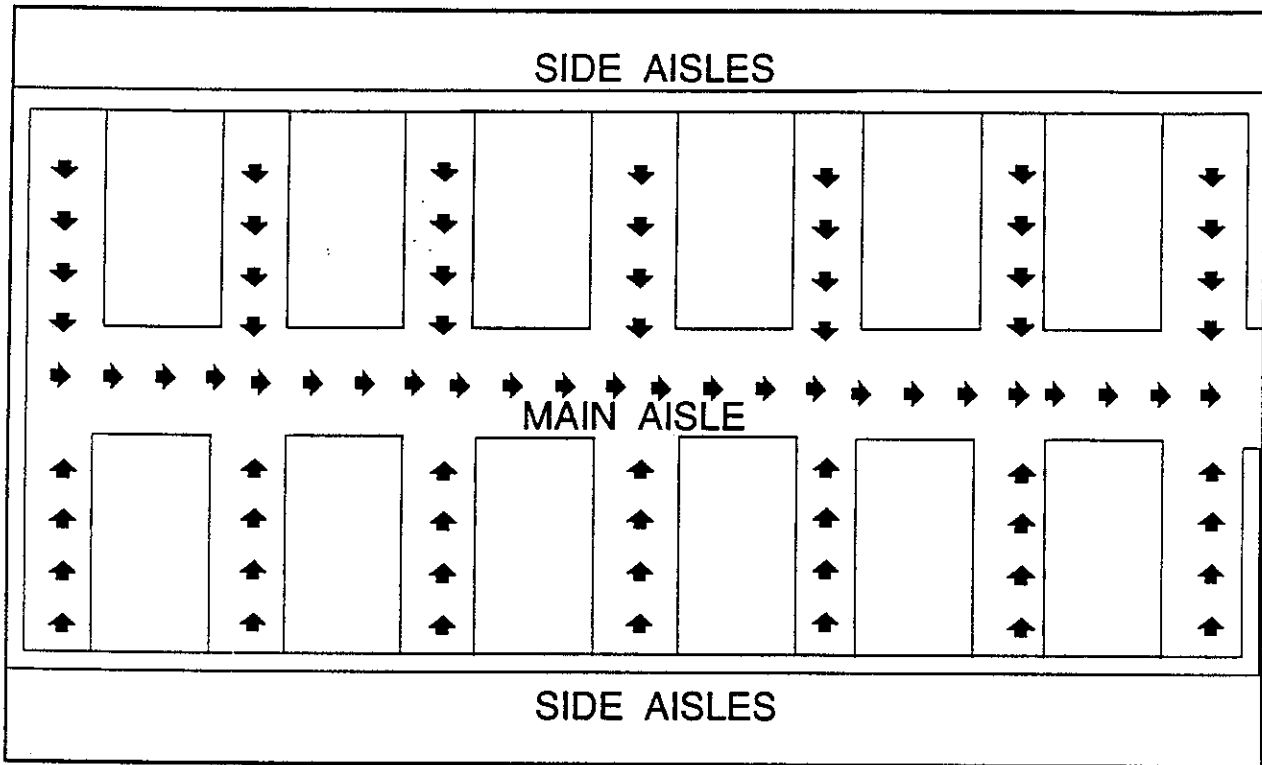
P-4134

Figure 15

TOWING INSTRUCTIONS (See Figure 15)

1. Locate tow control shaft extension as shown in Figure 15. (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.

HELPFUL HINTS FOR CLEANING OPERATION



P-4134

Figure 16



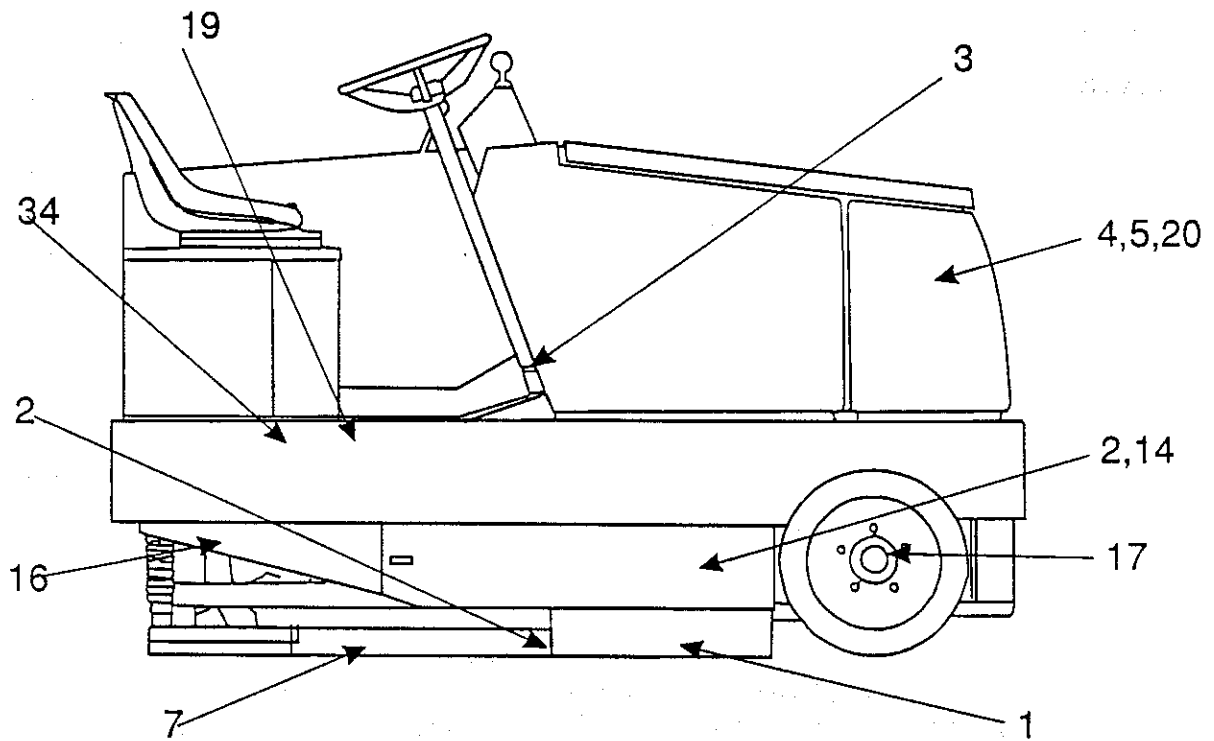
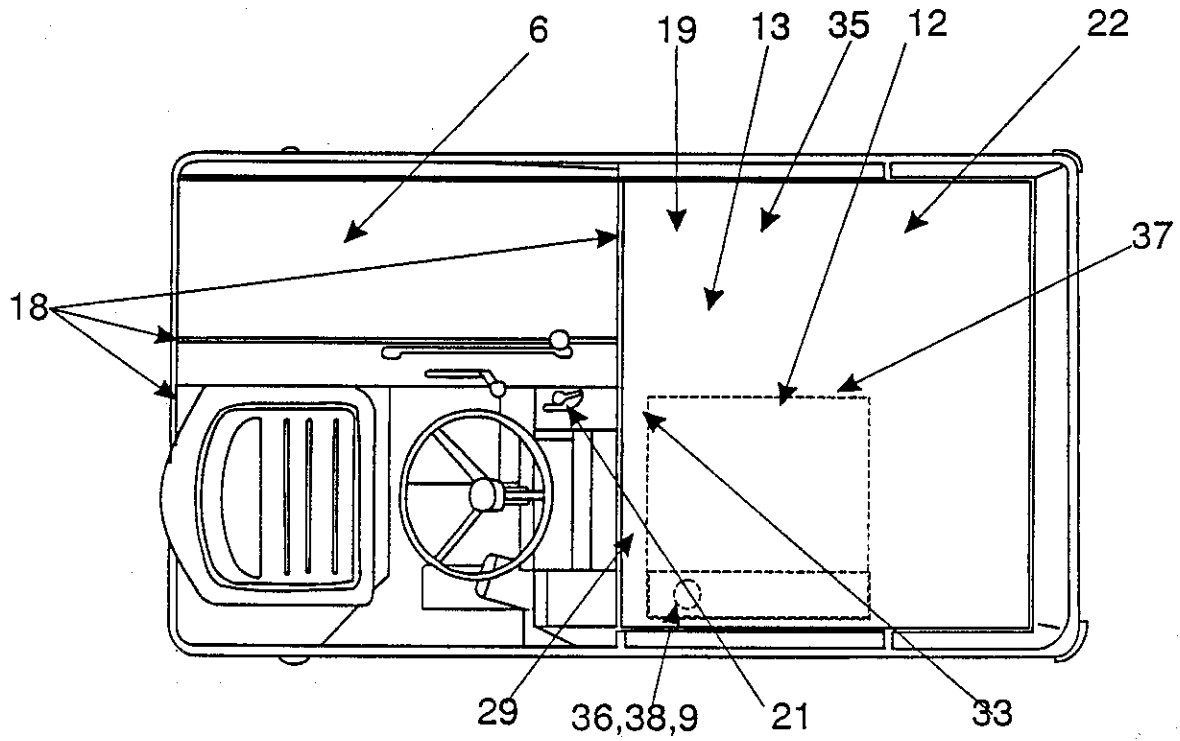
WARNING

1. 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.
2. Scrub in straight paths. Do not bump posts. Do not scrape the sides of the machine.
3. 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 drive system.
7. 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 1 inch (2.54 cm.) length. To order replacement brooms, See page 98. Replace disc brushes when bristles are reduced to 1/2 inch (1.27 cm.) in length. To order replacement brushes, see page 98. Replace squeegee rubbers when all usable edges have become rounded with wear, impairing the wiping action. To order replacement squeegee rubbers, see page 62.

MAINTENANCE



For service assistance, consult your local Clarke/American-Lincoln Distributor. For best performance, replace worn parts with genuine Clarke/American-Lincoln parts.

SERVICE CHART FOR 6200

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

1. All flaps for wear or damage.
2. Sweeping broom & scrub brushes for wear or damage.
3. Brake pedal and parking brake.
4. Solution tank
5. Solution filter screen
6. Clean Recovery tank.
7. Rear and side squeegees for wear or damage.
8. * Check engine oil level.
9. Check Hydraulic Fluid level.
10. * Check coolant level and radiator core for blockage.
11. LP * Check for LPG odor at connections.

50 HOUR (WEEKLY) MAINTENANCE CHECKLIST

12. Check battery electrolyte level.
13. Check tension on all belts.
14. Rotate main broom end for end.
15. * Check all hydraulic hoses for wear or cuts.

100 HOUR MAINTENANCE CHECKLIST

16. Grease drive wheel swivel bearings.
17. Lubricate front wheel bearings.
18. Lubricate all moving joints.
19. Lubricate the clamp ends of the Forward/Reverse cable with NAPA #765-1364 or equivalent anti-seize lubricant.

20. Clean solution tank.
21. Grease Main Broom lever
22. Clean vacuum filter
23. *Check the battery electrolyte level.
24. *Clean air filter element.
25. *Check fuel hose.
26. *Check of radiator hoses and clamp bands.
27. *Change of engine oil.
28. *Replace oil filter cartridge.

250 HOUR MAINTENANCE CHECKLIST

29. Replace engine air filter element.
30. * Flush radiator coolant system.
31. * Remove spark plugs - clean or replace.
32. * Check distributor and points - service or replace.
33. Clean and lubricate throttle and choke linkage.
34. Replace fuel filter.
35. Replace hydraulic filter.

500 HOUR MAINTENANCE CHECKLIST

36. Clean Hydraulic reservoir.
37. Clean Hydraulic intake strainer.
38. Changed hydraulic fluid.

1 YEAR MAINTENANCE CHECKLIST

39. * Check valve clearance.

* = Not Shown on Drawing.

NOTE

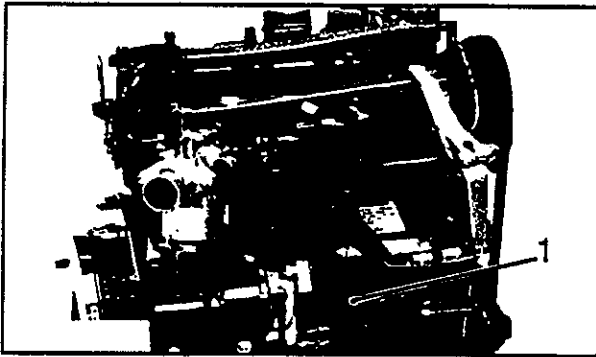
Change engine oil after the first 35 hours of operation.



WARNING

WHEN CHANGING OR INSPECTING, BE SURE THE ENGINE IS STOPPED AND THE MACHINE IS LEVEL.

GENERAL ENGINE MAINTENANCE



C-0152

Figure 17

DAILY CHECK POINTS

Checking Engine Oil Level

1. Be sure the machine is parked on level ground.
2. To check the oil level, draw out the dipstick (1), wipe it clean, reinsert it, draw it out again. Check to see that the oil level lies between the two notches.
3. If the level is too low, add new oil to the specified level.
4. When using an oil of a different maker or viscosity from the previous one, remove all old oil. Never mix two different types of oil.

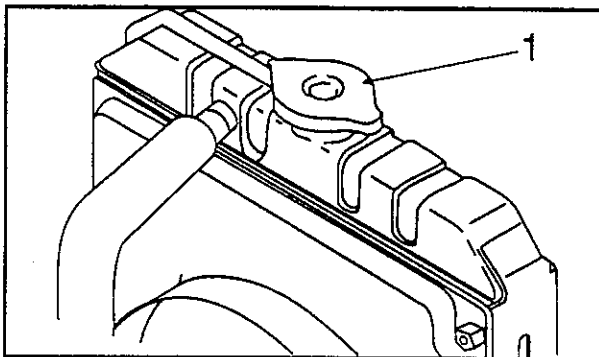
NOTE

Use the proper Engine Oil SAE according to the ambient temperatures.

100 HOUR CHECK POINTS

Checking Water Level

1. Remove the radiator cap (1) and check to see that the cooling water level is just below the port.
2. If low add clean water and antifreeze.



C-0157

Figure 18

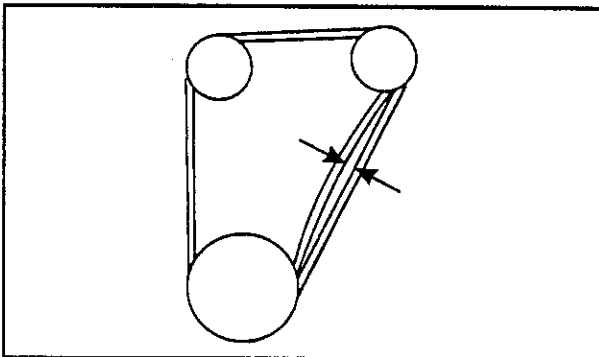


WARNING

Be sure to close the radiator cap securely. If the cap is loose or improperly closed, water may leak out and the engine could overheat.

Fan Belt Tension

1. Measure the deflection, depressing the belt halfway between the fan drive pulley and the alternator pulley at 98 N (10 kgf, 22 lbs) of force.
2. If the measurement is not the specified value, loosen the bolts and the nuts, and relocate the alternator to adjust.
3. The factory specification for fan belt tension is 0.273 to 0.351 inches (7 to 9 mm).

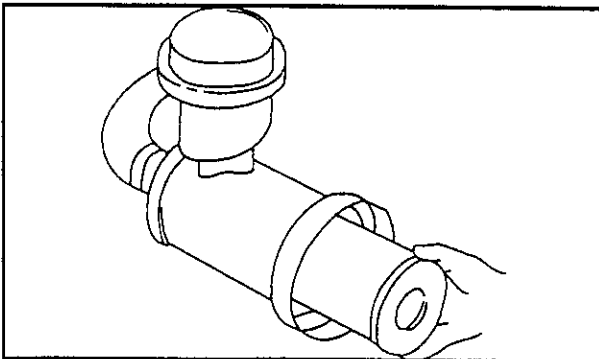


C-0158

Figure 19

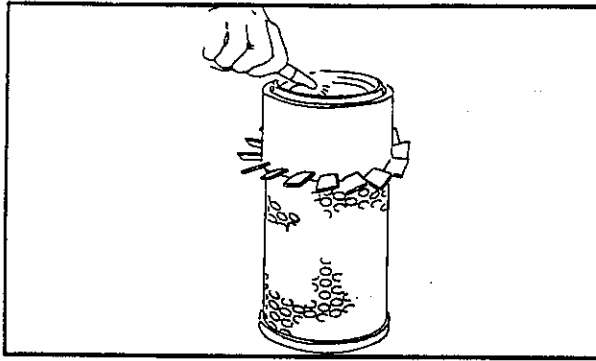
Cleaning Air Cleaner

1. The air cleaner uses a dry element. Never apply oil.
2. Do not touch the filter element except when cleaning.
3. When cleaning the element, refer to "Cleaning Air Filter Element".
4. If the element is stained with carbon or oil, replace the filter.
5. Replace the filter once a year or if the filter has been rinsed with water more than 6 times in a year.



C-0159

Figure 20



C-0151

Figure 21

Cleaning the Air Filter Element

6. To clean the element, use clean dry compressed air on the inside of the element. Air pressure at the nozzle must not exceed 100 psi (690 kPa, 7 kgf/square cm). Maintain a reasonable distance between the nozzle and the filter.

Checking the Fuel Hose



WARNING

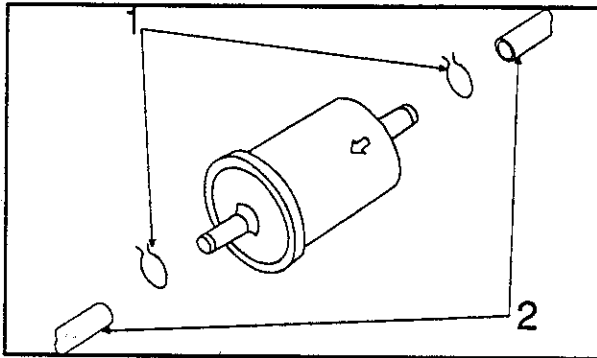
Stop the engine when attempting the check or changing of the fuel hose.

Check the fuel hoses every 100 hours of operation.

1. Since the fuel hose (2) is made of rubber, it ages regardless of the period of service. Change the fuel hose together with the clamp every two years.

2. If the fuel hose and clamp are found to be damaged or deteriorate earlier than two years, then change or remedy.

3. After the fuel hose and the clamp have been changed, bleed the fuel system.



C-0160

Figure 22

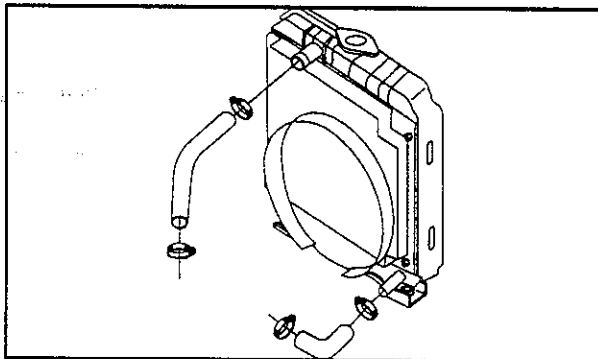
200 HOUR CHECK POINTS

Checking the Water Hose

4. Check to see if the water hoses are properly fixed every 200 hours of operation or every six months, whichever comes first.

5. If the clamp is loose, apply oil to the threads and retighten it securely.

6. The water hose is made of rubber and tends to age. It must be changed every two years. Also change the clamp and tighten securely.



C-0161

Figure 23

Changing Engine Oil

1. After warming up, stop the engine.

2. To change the used oil, position the drain hose to empty into a waste oil container, remove the oil drain cap (1) and drain off the oil completely.

3. Securely tighten the oil drain cap.

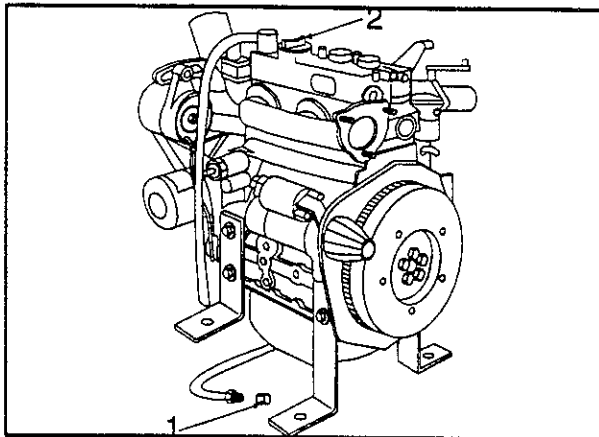
4. Fill (2) the new oil up to the upper notch on the dipstick.



WARNING

The API classification of the engine oil should be SF class grade.

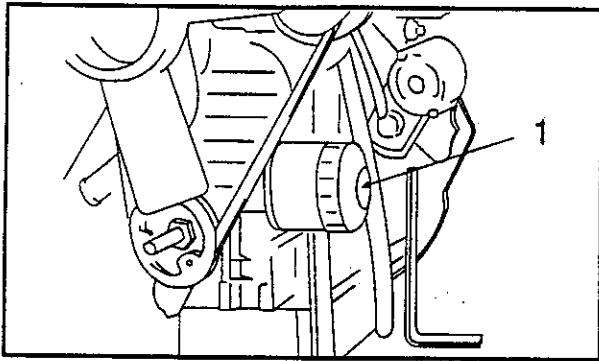
Change the type of oil according to the ambient temperature of SAE viscosity grade.



C-0153

Figure 24

Above 25° C (77° F)	SAE 30 or SAE 10W-30
0° C-25° (32° F-77° F)	SAE 20 or SAE 10W-30
-12° C-0° C (10° F-32° F)	SAE 10W or SAE 10W-30
Below 12° C (10° F)	SAE 5W-30



C-0162

Figure 25

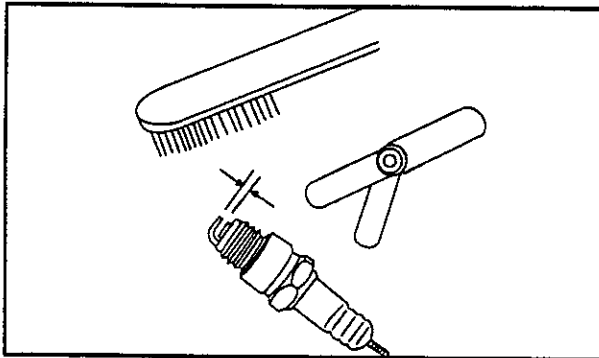
Changing Engine Oil Filter Cartridge

5. Remove the oil filter cartridge (1) with a filter wrench.
6. Apply engine oil to the rubber gasket on the new cartridge.
7. Screw the new cartridge in by hand.



WARNING

1. Overtightening may cause deformation of the rubber gasket.
2. After the cartridge has been replaced, engine oil normally decreases a little. Check the oil level and add new oil to the specified level.



C-0163

Figure 26

400 HOUR CHECK POINTS

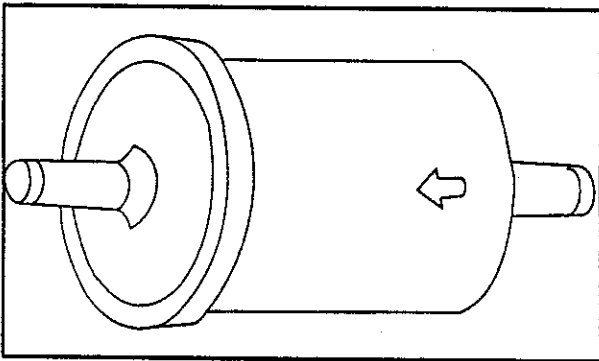
Checking the Spark Plug Gap

1. Remove the carbon.
2. Measure the clearance with a feeler gauge.
3. If the clearance is outside the reference value, readjust it.
4. The factory specification for the spark plug gap is 0.039 to 0.043 in. (1.0 to 1.1 mm).

1 YEAR CHECK POINTS

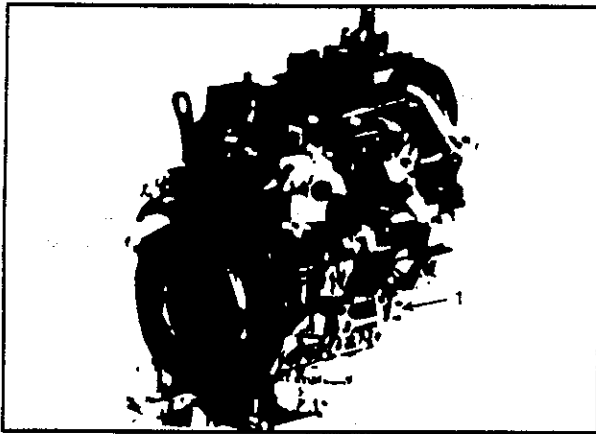
Changing the Fuel Filter

1. Stop the fuel from tank.
2. Replace the fuel filter with a new one. (Every Year)



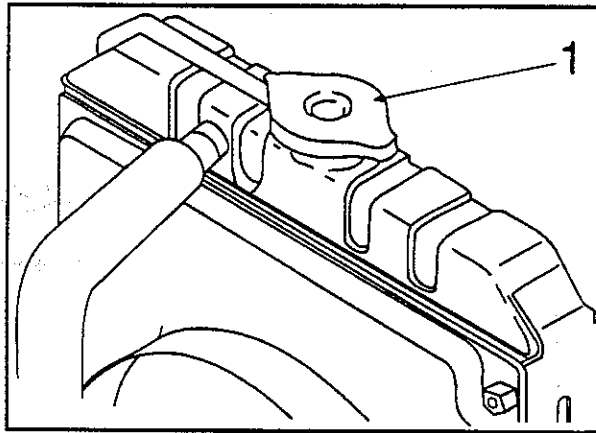
C-0164

Figure 27



C-0155

Figure 28



C-0157

Figure 29

Draining Cooling Water



WARNING

Never remove the radiator cap until cooling water temperature is below its boiling point. Then loosen the cap slightly to relieve any excess pressure before removing the cap completely.

1. Prepare a bucket. Open the drain cock (1) to drain cooling water.

Cleaning the Water Jacket (Radiator Interior)

1. The cooling system should be cleaned on the following occasions:

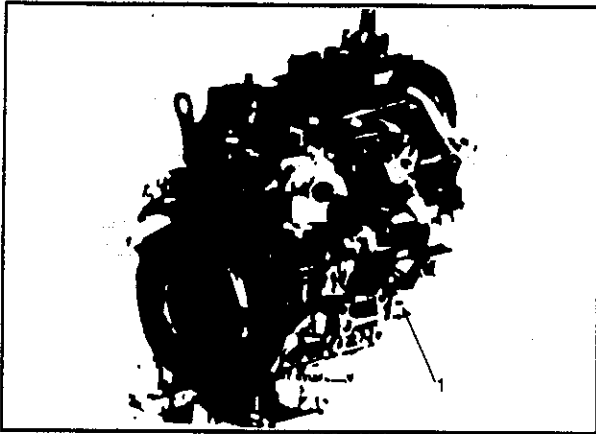
- * Every 400 service hours.
- * When adding antifreeze.
- * When changing from water containing antifreeze to pure water.

2. When cleaning the cooling system, Kubota Detergent No. 20 is recommended to effectively wash away the rust build-up.



WARNING

Do not remove the radiator cap until cooling water temperature is cooled. Then loosen the cap slightly to relieve any pressure before removing the cap completely.



C-0154

Figure 30

NOTE

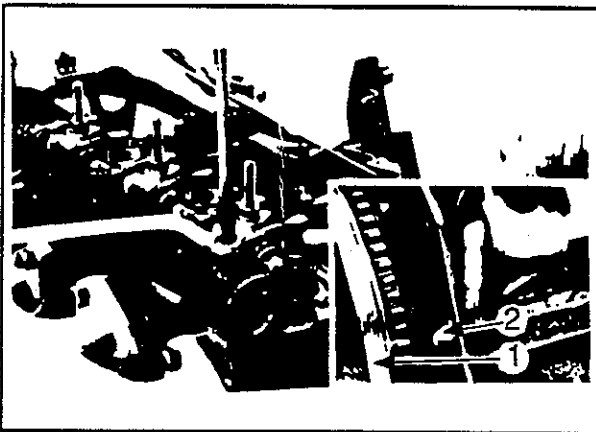
1. Use fresh, clean water to fill the radiator.
2. To drain the used coolant completely, open the radiator drain cocks and remove the radiator cap.
3. Do not use antifreeze during hot weather to maintain engine performance since the boiling point of coolant rises.
4. The radiator should be filled with part antifreeze and part water at all times as recommended by the antifreeze manufacturer.
5. Do not use an antifreeze and scale inhibitor at the same time.

KUBOTA Scale Inhibitor No.11

1. KUBOTA Scale Inhibitor No.11 prevents scale formation in the cooling water. Scale build-up in either hard or soft water sharply reduces cooling efficiency.
2. The Scale inhibitor is effective for 3 months so cooling water must be changed every 3 months.

Valve Clearance

1. Loosen the lock nut and the adjusting screw on the rocker arm.
2. Turn the adjusting screw to adjust the valve clearance at the top dead center (T.D.C.) during the compression stroke of the piston.
3. Tighten the lock nut and check the valve clearance again after several turns of the flywheel.
4. The factory specification for valve clearance is 0.0057 to 0.0073 inches (0.145 to 0.185 mm).



C-0156

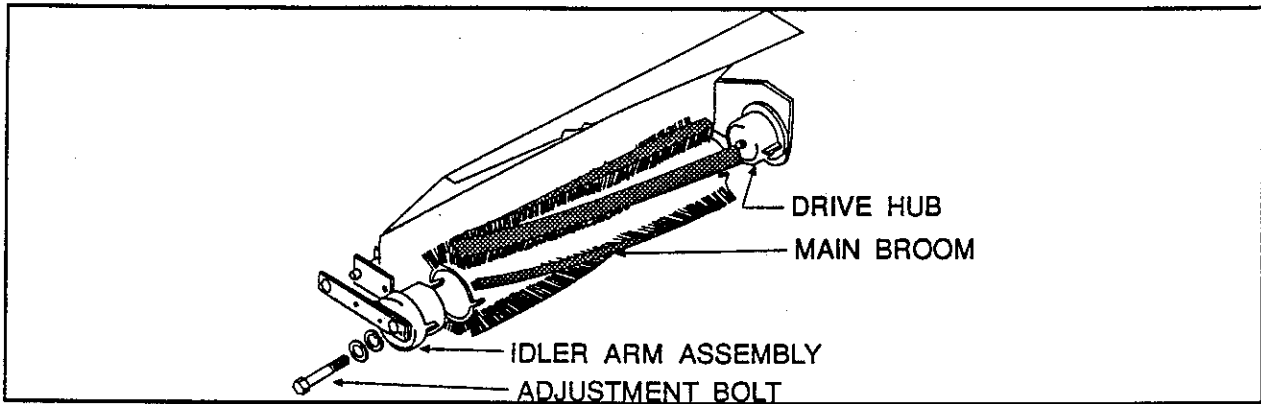
Figure 31

NOTE

To get the T.D.C. of the piston, find its "TC" mark on the flywheel and align it to punch mark line on the rear end plate.

HOW TO REPLACE THE MAIN BROOM (SWEEPER SCRUBBER)

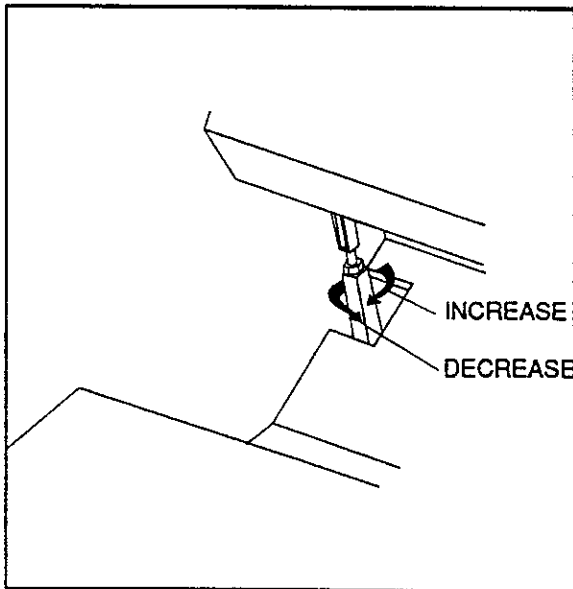
Replace the main broom when the bristles are worn to 1 inch (2.5 cm) in length.



P-5046

Figure 32

1. Open the right broom chamber door.
2. Remove the mounting bolt.
3. Remove the idler arm assembly.
4. Remove the main broom and discard.
5. Put a new main broom in the broom chamber.
6. Rotate the new broom to the right on the drive hub until it engages the drive hub broom tabs.
7. Put the idler arm assembly in place.
8. Put the mounting bolt in place and tighten.
9. Close the broom chamber door.
10. Turn the ignition key to the "ON" position.
11. Put the broom control lever to the "BROOM - SWEEP" position.
12. Let the broom sweep in place for two minutes.
13. Put the broom control lever to the "UP" position.
14. Back the machine off the test spot.
15. Inspect the area where the broom swept, for broom bristle contact with the floor. The area of broom bristle contact with the floor should be 1 to 2 inches (2.5 to 5 cm.) wide.
16. Follow the steps outlined in the sections on "HOW TO ADJUST FOR AN EVEN SWEEP PATTERN" and "HOW TO ADJUST THE BROOM HEIGHT."



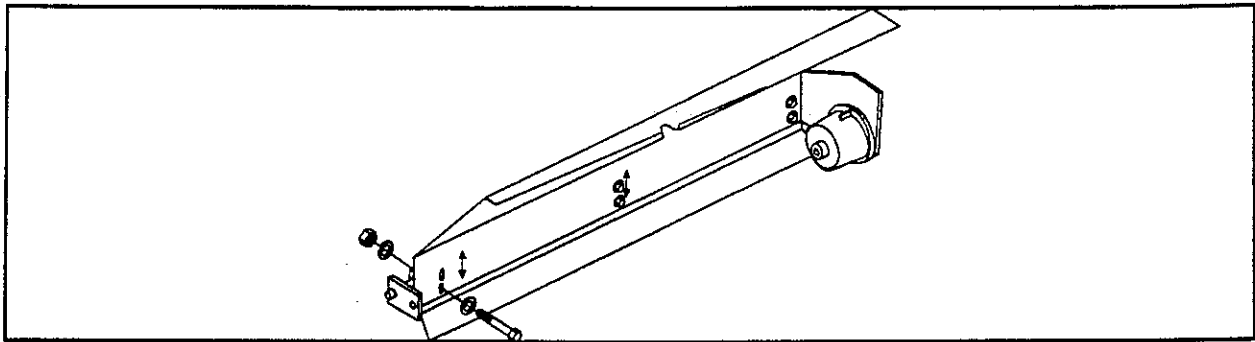
P-5051

Figur 33

HOW TO ADJUST THE MAIN BROOM HEIGHT (SWEEPER SCRUBBER)

As the main broom bristles wear, it is necessary to lower the broom so that the bristles will contact the floor.

1. Turn the main broom adjuster linkage, located in the corner of the driver compartment. Turning the linkage clockwise will increase the broom pattern and counter-clockwise to decrease it. Turn the linkage one full turn at a time.
2. Turn the key switch to the "ON" position.
3. Put the broom control lever to the "SWEEP" position.
4. Let the main broom run for 2 minutes.
5. Put the broom control lever to the "UP" position.
6. Drive the machine forward, until the area swept by the main broom is behind the machine.
7. Turn the key switch to the "OFF" position and set parking brake.
8. Inspect the area swept by the main broom for an even pattern.

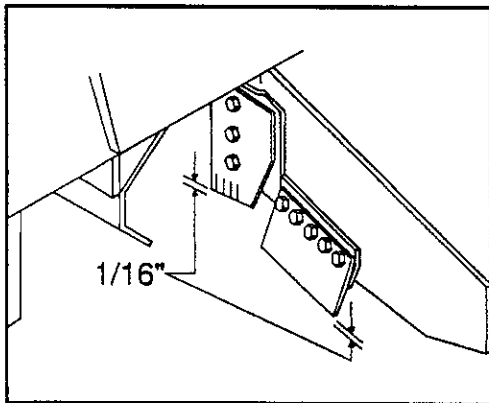


P-5049

Figure 34

HOW TO ADJUST FOR AN EVEN SWEEP PATTERN (SWEEPER SCRUBBER)

1. Open the right broom door chamber.
2. Loosen the adjustment bolts that are located inside the broom chamber.
3. Loosen the sets of slots closest to the broom door and in the center of the broom chamber.
4. Move the end of the broom pivot shaft up and down, until the area of the broom bristle contact with the floor appears even. The width of contact will be between one and two inches (2.5 to 5 cm.).
5. Tighten the adjustment bolts.
6. Close the broom chamber door.
7. Turn the key switch to the "ON" position.
8. Put the "BROOM" control lever to the "SWEEP" position.
9. Let the main broom run for 2 minutes.
10. Put the "BROOM" control lever to the "UP" position.
11. Drive the machine forward, until the area swept by the main broom is behind the machine.
12. Turn the key switch to the "OFF" position and set parking brake.
13. Inspect the area swept by the main broom for an even pattern.



P-5048

Figure 35

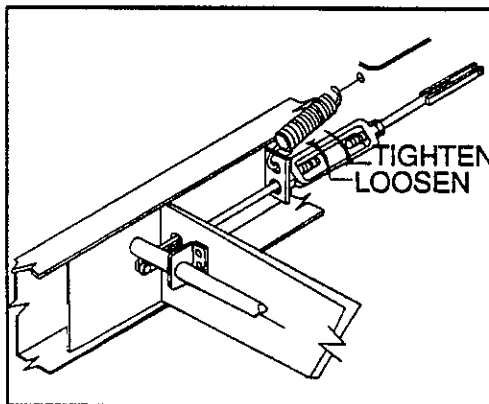
FLAPS

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" (.15 cm.) above the floor.

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

CLEANING THE VACUUM FILTER ELEMENT

See Vacuum Assembly. Remove the (4) wing nuts from the cover on the vacuum manifold. Remove the cover gas ket and filter element. Rinse the filter in water and reassemble.



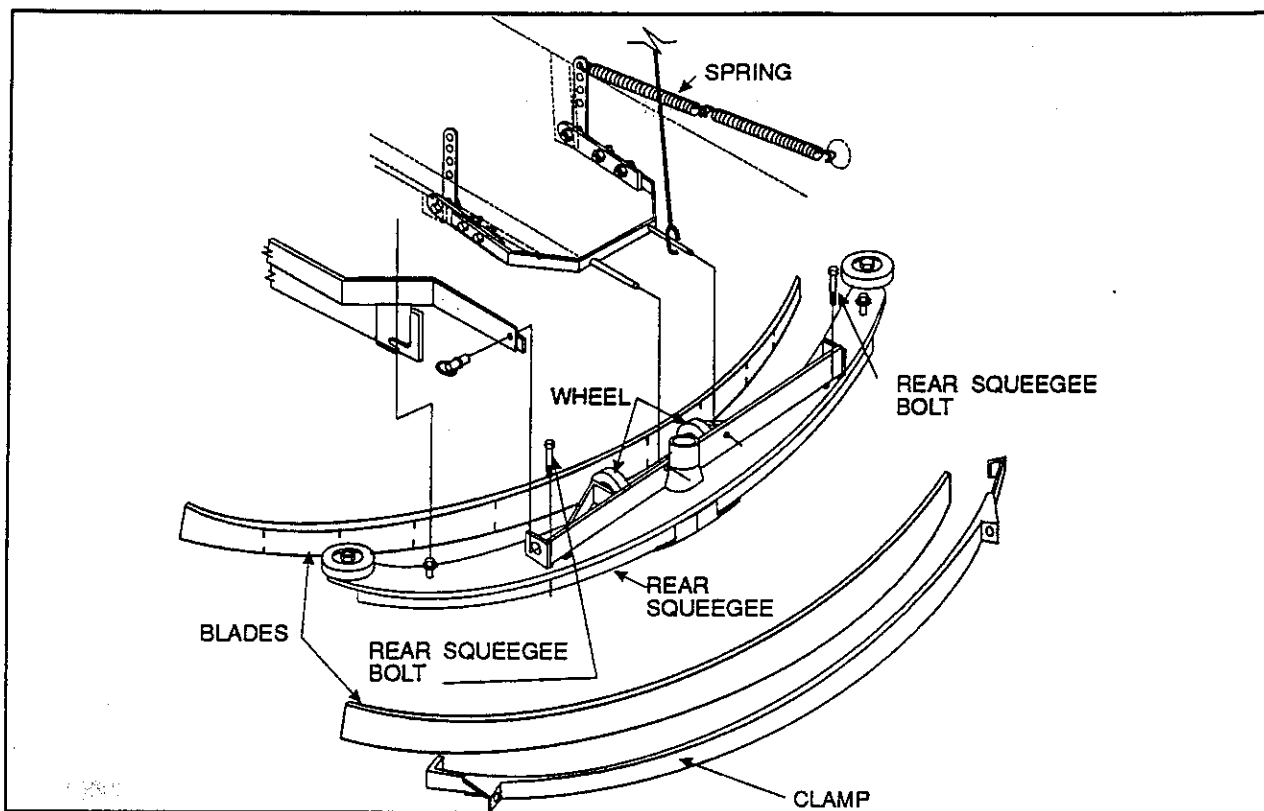
P-5053

Figure 36

BRAKE ADJUSTMENT

The brake adjustment turnbuckles are located along the machine frame toward the front of the machine.

1. Loosen the turnbuckle nut.
2. Looking toward the front of the machine, turn the turnbuckle clockwise to tighten the brake pads or turn it counterclockwise to loosen.
3. Tighten the turnbuckle nut.



P-5055

Figure 37



WARNING

TORQUE REAR SQUEEGEE BOLT TO 15 - 20 FT. LBS., EXCESSIVE TIGHTENING CAN LEAD TO DAMAGE.

SQUEEGEE WHEEL ADJUSTMENT

1. Set the hand parking brake.
2. Turn the key switch to the "ON" position.
3. Put the Squeegee Blade Switch in the "LOWER" position.
4. Turn the key switch to the "OFF" position. This will turn off the vacuum fans.
5. The wheels must be $\frac{3}{16}$ inch (.476 cm.) above the floor.
6. Loosen the wheel mounting bolts.
7. Slide the wheels in their slots until they are at the $\frac{3}{16}$ inch (.476 cm.) above the floor.
8. Tighten the wheel mounting bolts.

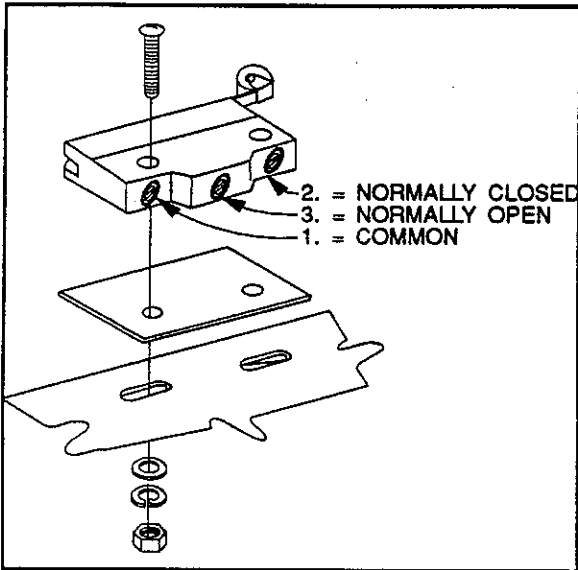
SQUEEGEE SPRING PRESSURE ADJUSTMENT

1. Set the hand parking brake.
2. Turn the key switch to the "ON" position.
3. Put the Squeegee Blade Switch in the "LOWER" position.
4. Turn the key switch to the "OFF" position.
5. Remove the rear squeegee assembly.
6. Raise the rear of the machine and place jack stands under the rear frame of the machine.
7. Disconnect the springs from the arms located above the scrub deck. The spring force increases when the springs are installed in the higher holes and decreases in the lower holes.

SQUEEGEE BLADE REPLACEMENT

1. Set the hand parking brake.
2. Turn the key switch to the "ON" position.
3. Put the Squeegee Blade Switch in the "LOWER" position.

4. Turn the key switch to the "OFF" position.
5. Remove the rear squeegee assembly.
6. Loosen the strap clamp.
7. Remove the old blades.
8. Push the new blades in until they are against the top of the squeegee. Retighten clamp.



P-5050

Figure 38

MICROSWITCH ADJUSTMENT

All microswitches are slotted. Loosen the nuts and bolts and move the switch. Retighten the nuts and bolts.

FOOT PEDAL SWITCHES

Adjust in slot until all switches are off when foot pedal is in neutral.

SQUEEGEE LIMIT SWITCHES

If the actuator is making noise, move switches toward actuator. If lift cable is too tight, lower upper switch.

SCRUBBING SWITCH

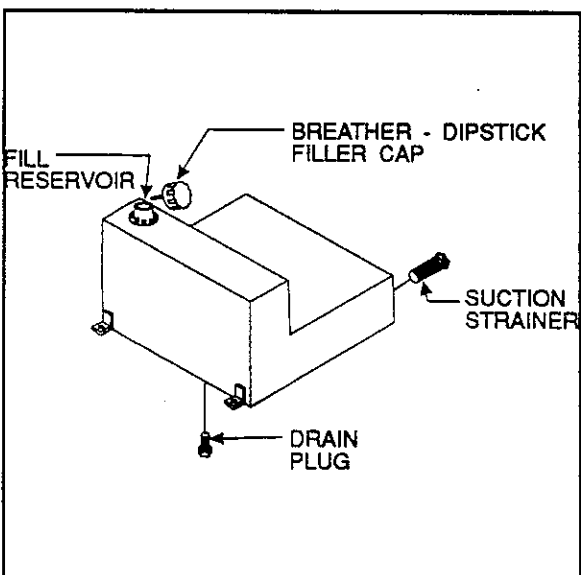
The switch is located on the frame above scrub deck on the right side. Adjust the switch by loosening the switch or switch bracket with the scrub deck lever at mid point of it's slot. The switch should come off the trip arm. When the lever is in the up position the switch will be active.

BROOM SWITCH

The switch is located under the instrument panel. The switch will be active when the broom lever is in the "UP" position.

HYDRAULICS

The hydraulics system controls the broom, scrub brushes and the machine drive motor.



C-0165

Figure 39

HOW TO FILL THE HYDRAULIC RESERVOIR

1. Raise the cover over the engine compartment and remove the right side cover.
2. Remove the hydraulic reservoir breather filler cap.

NOTE

To obtain greater access lift the radiator overflow bottle from its bracket.

3. Remove any debris that is in the breather filler cap.
4. Fill the reservoir until fluid level is to the upper line on the dipstick - filler cap. Do not overfill.
5. Close the hydraulic reservoir breather filler cap.
6. Reinsert the overflow bottle back into its bracket.
7. Install the side cover and close the cover.

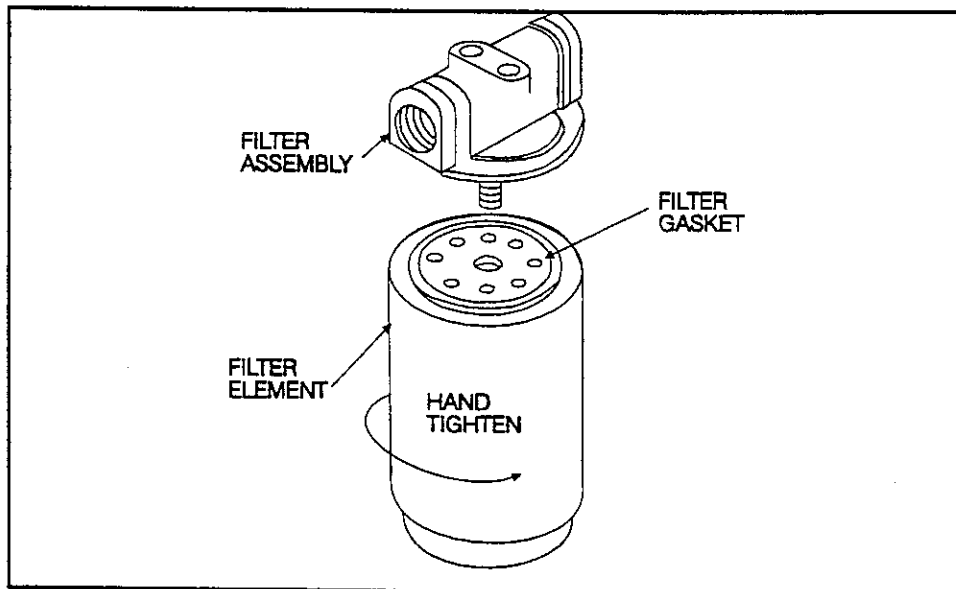
HOW TO CLEAN THE HYDRAULIC SYSTEM

1. Put a drop cloth on the floor.
2. Drive the machine on to the drop cloth.
3. Set the parking brake.
4. Open the engine cover.
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.

HOW TO CLEAN THE HYDRAULIC SUCTION STRAINER

7. The suction strainer is the filter assembly located in the bottom of the hydraulic reservoir and can be removed from the outside of the reservoir. Turn the suction strainer counterclockwise by hand.
8. Remove the suction strainer from the reservoir.
9. Use a compressed air line on the inside of the strainer to blow impurities out of the filter media. If a compressed air line is unavailable, use new FORD type "F" Automotive Transmission Fluid to flush the impurities out of the filter media.
10. Flush the interior of the hydraulic reservoir with clean fluid.
11. Put the cleaned strainer in the hydraulic reservoir.
12. Rotate the strainer clockwise into the bottom of the hydraulic reservoir. Stop rotating the strainer when it is hand tight.
13. Put the reservoir plug, removed in step six, back in the hydraulic tank drain and tighten.
14. Open the breather filler cap.
15. Fill the reservoir with new FORD type "F" automotive transmission fluid. The capacity of the tank is 6 gallons or 22.8 liters.
16. Close the breather filler cap.
17. Close the engine cover.

HOW TO REPLACE THE RETURN FILTER ELEMENT

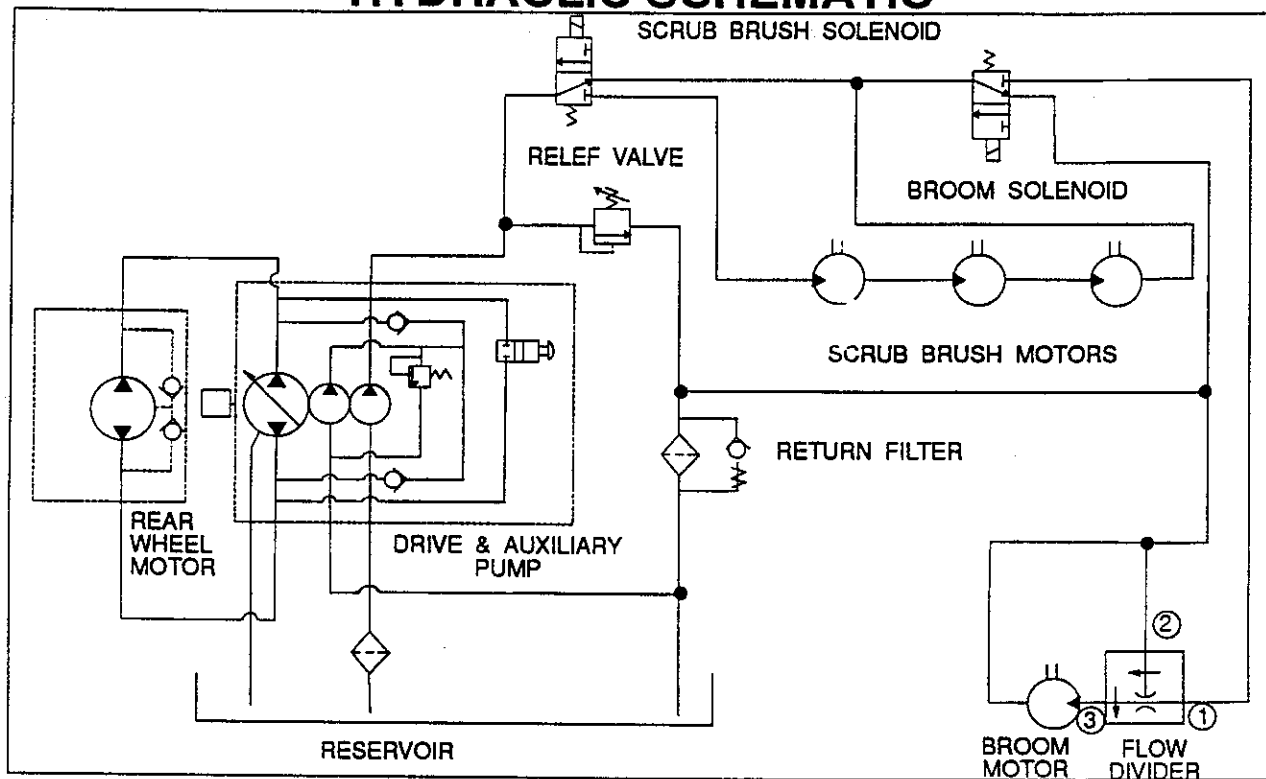


P-4601-1

Figure 40

1. Replace the filter element after 250 hours of machine run time.
2. Unscrew the filter element from the filter assembly and discard.
3. Moisten the filter gasket of a new filter element (Service Part Number 8-24-04018) with hydraulic fluid.
4. Put the filter element on threaded nipple of the filter assembly. Turn the filter clockwise, until it is hand tight.
5. Wipe clean any hydraulic reservoir fluid spills.

HYDRAULIC SCHEMATIC



C-0166

Figure 41

LP GAS SYSTEM

The propane powered Model 6200H is identical to the "standard" gasoline powered 6200H, except that it's 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:

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

These components are factory set, attempts at adjusting these components should only be made by authorized service personnel.

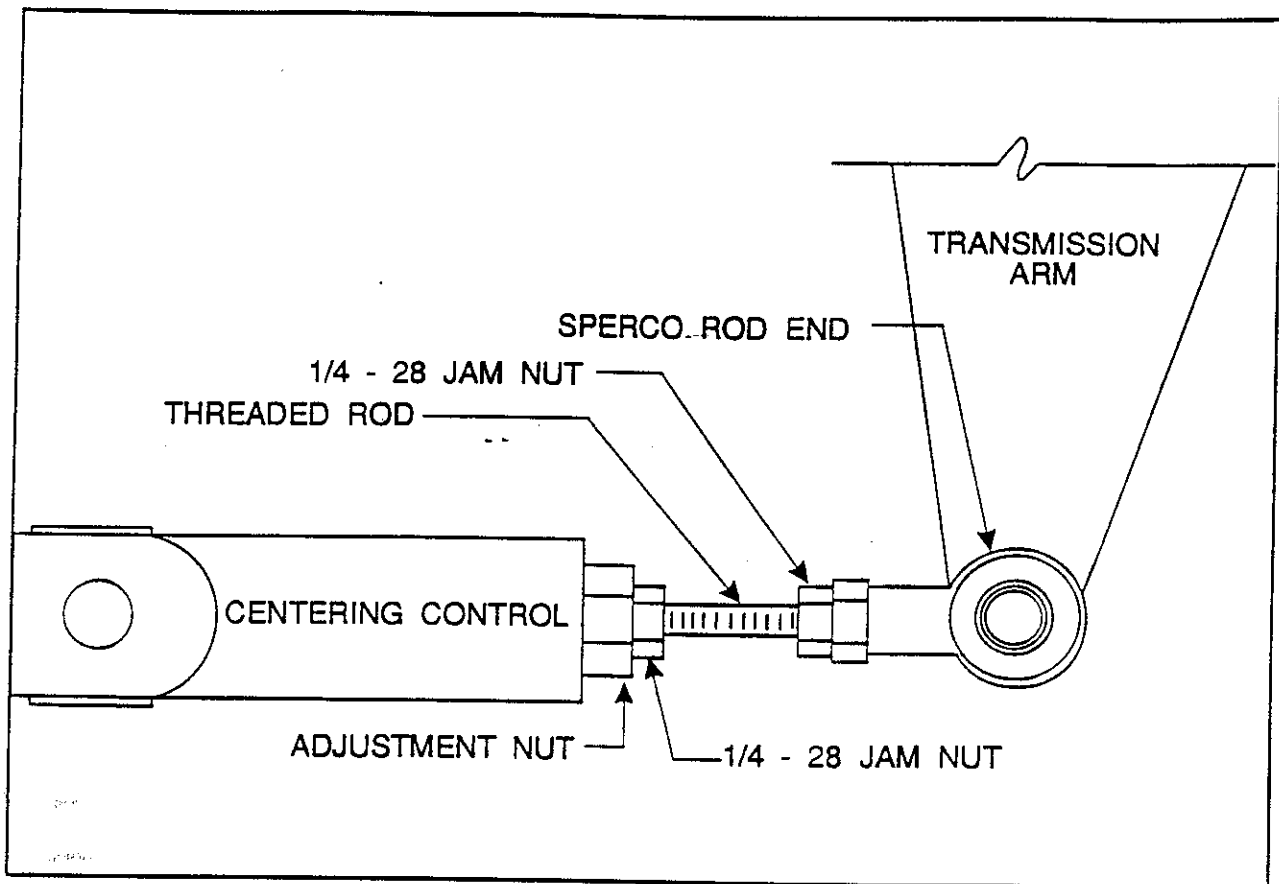
LP GAS VAPORIZER-REGULATOR QUICK CHECK

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 operator's seat in the tank mounting bracket.

Use only the proper size and type of LP tank. The 6200 LP powered sweeper uses 20 lb. horizontal liquid withdraw tank. The designation of the tank is DOT 4BW-240.



P-5093

Figure 42

NEUTRAL ADJUSTMENT

1. Check engine no load RPM; 2800 RPM. Check hydraulic reservoir oil level.
2. Raise rear of machine onto jack stands (two stands of 2000 lbs. capacity) so the rear wheel is off the ground.
3. Loosen the jam nut away from the adjustment nut.

NOTE

Adjustment directions given are as seen from the left hand side of the machine.

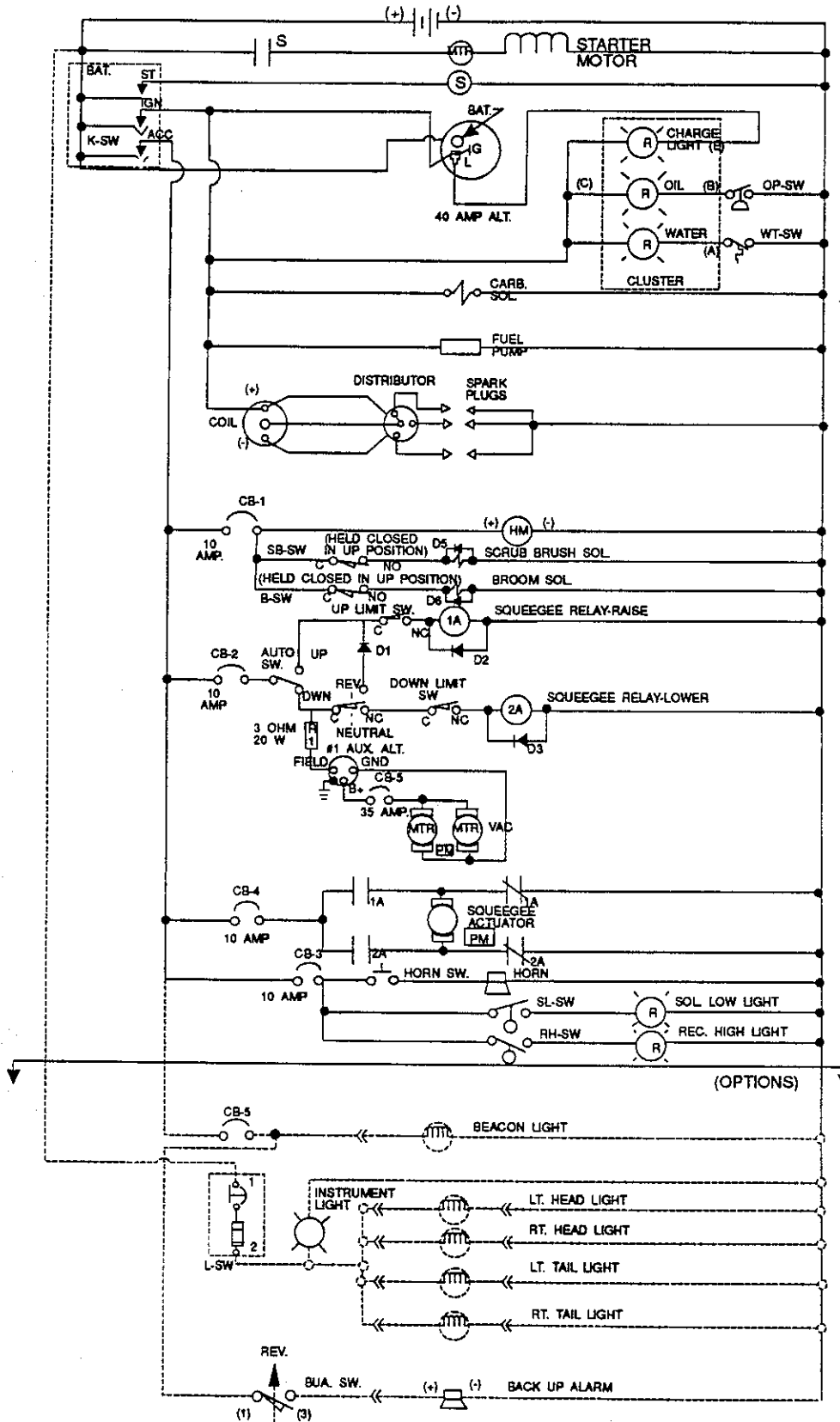
4. If the rear drive wheel is turning forward, turn the adjustment nut clockwise (this will shorten the threaded shaft). If the rear drive wheel is turned in reverse, turn the adjustment nut counterclockwise (this will lengthen the threaded shaft).
5. Tighten the jam nut against the adjustment nut.
6. Test for operation of neutral with engine at full throttle. If the rear drive wheel turns, repeat adjustments Stps 2, 4 and 5.

ELECTRICAL LEGEND

ACC	=	ACCESSORY
ALT.	=	ALTERNATOR
ALT.	=	ALTERNATOR
B-SW	=	BROOM SOLENOID
BAT.	=	BATTERY
BUA. SW.	=	BACK UP ALARM SWITCH
C	=	CLOSED
CB-1	=	CIRCUIT BREAKER #1
CB-2	=	CIRCUIT BREAKER #2
CB-3	=	CIRCUIT BREAKER #3
CB-4	=	CIRCUIT BREAKER #4
CB-5	=	CIRCUIT BREAKER #5
D1	=	DIODE #1
D2	=	DIODE #2
D3	=	DIODE #3
D4	=	DIODE #4
D5	=	DIODE #5
D6	=	DIODE #6
DWN	=	DOWN
ENG	=	ENGINE
GND	=	GROUND
IGN	=	IGNITION
IP-SW	=	INSTRUMENT PANEL WIRING HARNESS
K-SW	=	KEY SWITCH
L-SW	=	LIGHT SWITCH
LT.	=	LEFT
M-WH	=	MACHINE WIRING HARNESS
MTR	=	MOTOR
NC	=	NORMALLY CLOSED
OP-SW	=	OIL PRESSURE SWITCH
PM	=	PERMANENT MAGNET
R	=	RED
REC.	=	RECOVERY
REV	=	REVERSE
RH-SW	=	RECOVERY HIGH SWITCH
RT.	=	RIGHT
S	=	STARTER
SB-SW	=	SCRUB BRUSH SWITCH
SECT.1	=	SECTION #1
SECT.2	=	SECTION #2
SL-SW	=	SOLENOID LIGHT SWITCH
SOL.	=	SOLENOID
ST	=	STARTER
SW.	=	SWITCH
V	=	VOLT
VAC	=	VACUUM MOTOR
WT-SW	=	WATER TEMPERATURE SWITCH

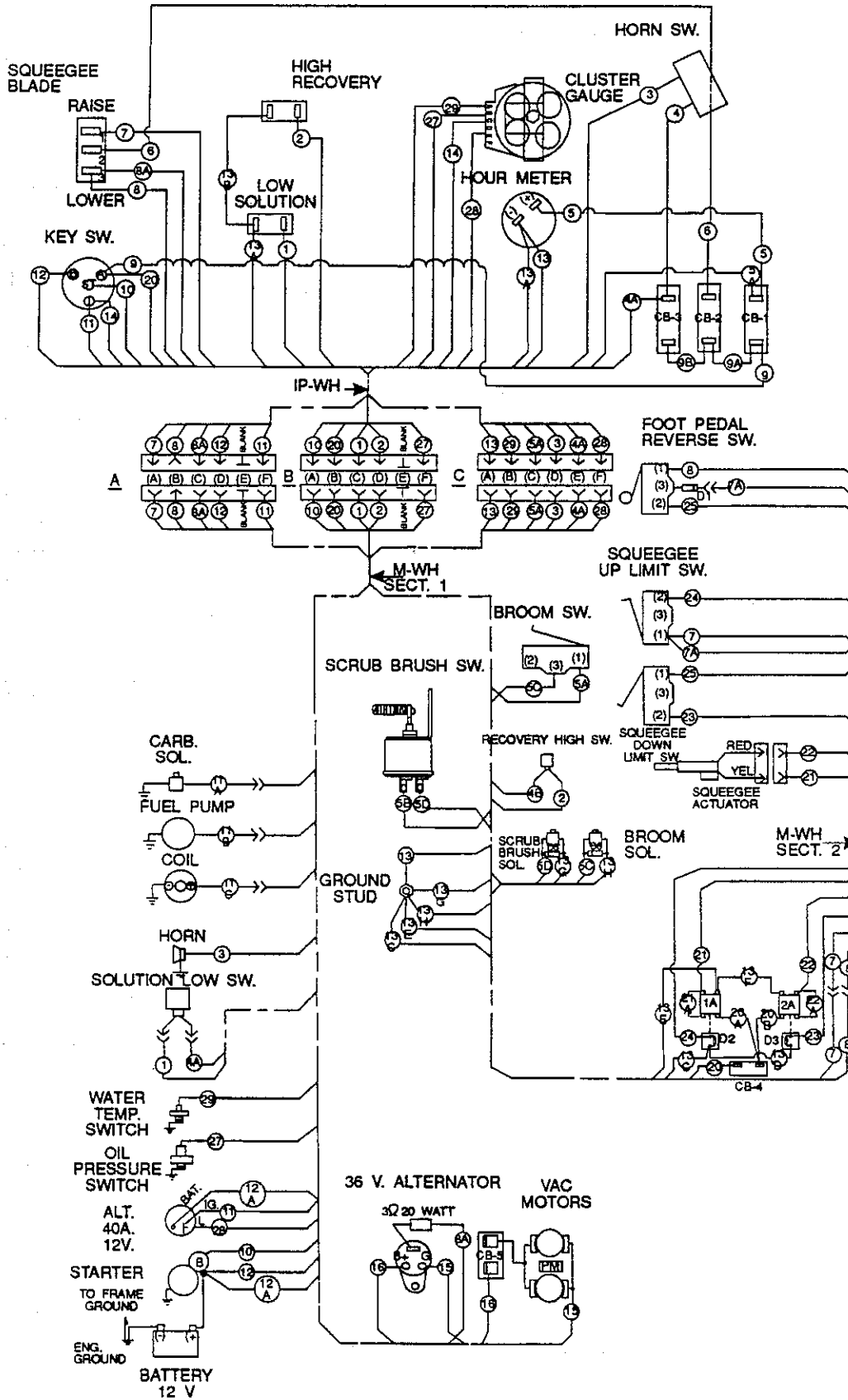
SCHEMATIC DIAGRAM

12 V BATTERY



C-0167

CONNECTION DIAGRAM



C-0168

TROUBLE SHOOTING - GENERAL

PROBLEM	PROBABLE CAUSE	REMEDY
<p>Poor Sweeping Sweeper Scrubber</p>	<ol style="list-style-type: none"> 1. Broom jammed 2. Hopper full 3. Broom does not turn 4. Hopper not installed correctly 5. Poor broom pattern 6. Flaps worn 	<ol style="list-style-type: none"> 1. Remove obstruction 2. Empty 3. Check hydraulic motor. Adjust broom -switch. Repair loose wire connections 4. Reinstall 5. Adjust SWEEP PATTERN 6. Repair or replace
<p>Poor water pick up at squeegee</p>	<ol style="list-style-type: none"> 1. Recovery tank full 2. Side or rear squeegee are worn or damaged 3. Clogged suction hose or pick up tool 4. Loose connections between suction hose & squeegee 5. Vacuum motors not running 6. Plugged filter 7. Vacuum float cage clogged 8. Vacuum float shut off 9. Air leaks in suction hose and connection. 10. Air leaks at recovery tank cover & and / or manifold hose 11. Drain hose or drain plug leakage or not closed properly. 	<ol style="list-style-type: none"> 1. Empty tank 2. Examine squeegee rubber blade for cuts or worn spots. Replace if necessary. 3. Disconnect suction hose from squeegee, flush squeegee & hoses thoroughly 4. Check all hose connections for looseness or damage 5. Reset circuit breaker or repair loose connection 6. Clean filter element in vacuum manifold 7. Clean perforated metal thoroughly 8. Excessive solution in recovery tank. Excessive foam build up, change cleaning chemical mixture. Use A-L approved materials. 9. Repair or replace hose and connections 10. Repair or replace seal or hose 11. Close, repair or replace drain plug in recovery tank.
<p>Water spills from sides of scrubber</p>	<ol style="list-style-type: none"> 1. Side squeegee blades, poor contact with floor. 2. Squeegee blades worn or damaged 3. Too much solution being applied before making turns 	<ol style="list-style-type: none"> 1. Readjust blades for proper contact. 2. Replace and adjust 3. Shut off solution flow 5 to 10 feet before making turns.

PROBLEM	PROBABLE CAUSE	REMEDY
Squeegee actuator makes noise while up or down	1. Limit switches out of adjustment	1. Adjust
Squeegee drags floor while up	1. Up limit switch out of adjustment	1. Adjust
Squeegee leaves wet spots	1. Lift cable too tight 2. Wheels out of adjustment 3. Incorrect spring pressure	1. Adjust 2. Adjust 3. Adjust
Squeegee makes excessive noise	1. Blades worn or damaged 2. Incorrect spring pressure	1. Replace 2. Adjust
Poor scrubbing	1. Worn scrubbing brushes 2. Incorrect method of operation. 3. Wrong cleaning agent or mixture. 4. Poor solution distribution 5. Brushes don't turn	1. Inspect brushes. If are worn to 1/2 in. (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 materials. 4. Clean out distribution tube & metering holes to brushes. Check feed hose & clean if necessary. Check valve & cable control system 5. Check Fuse or wire connections. Switch out of adjustment.
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 and brakes. 3. Check & repair. See CESSNA Section. 4. Check & repair.
Machine moves slowly	1. Low hydraulic oil level. 2. Brake dragging. 3. Hydraulic oil temp. too high. 4. Worn hydraulic pump or drive wheel motor.	1. Add oil to reservoir. 2. Check brakes. 3. Check oil level, add SAE 5 (FORD Type F) ATF, if required. 4. See Hydraulic CESSNA .
Hydraulic pump making excessive noise.	1. Clogged inlet strainer or suction line. 2. Air bubbles in hydraulic fluid. 3. Hydraulic pump is worn or damaged.	1. Clean inlet strainer. Check inlet line. Drain & flush reservoir, if oil is dirty. Refill with clean SAE 5 (FORD Type F) ATF. 2. Check for low hydraulic fluid level,leaking fitting or hoses. 3. See CESSNA Pump Section.

TROUBLESHOOTING - LIQUID PROPANE GAS

	WILL NOT START	RUNS UNEVENLY AND LACKS POWER	STOPS DURING OPERATION
(1) FUEL TANK	<p>Check fuel tank type and fuel supply(vapor tank for vapor withdrawal system).</p> <p>Be sure tank hand valve is open(always open valve slowly). If hand valve is opened too fast, shut-off valve in tank will automatically shut off fuel supply. If this happens, close the hand valve and then re-open it slowly.</p>	<p>Out of fuel.</p> <p>Check fuel tank type & fuel supply (liquid tank for liquid withdrawal system.)</p>	<p>Tank valve not opened sufficiently .</p> <p>Check fuel tank type & fuel supply (liquid tank for liquid withdrawal system)</p>
(2) FUEL LINE	<p>Check hoses, connections, leaks etc., using soap bubble test method.</p> <p>When changing LP fuel tanks, always be sure fuel is getting into carburetor. Crank engine briefly and push primer button until vapor fumes are smelled or are visible at carburetor, or around air filter.</p> <p>Check fuel tank and lines for frosting up. To relieve frosting, open shut-off valve slowly (approx. 1/4 open). Start engine and idle until warm. Then open tank valve completely before loading the engine. If frost forms on connection fittings, check for fuel leakage, kinked lines, or restriction at frost points.</p> <p>Check fuel filter. Remove and clean it if dirty filter is restricting fuel line. Check quick disconnect fitting at LP tank: if LP tank valve is not properly seated, no fuel will flow through the line. A broken fuel line or loose connection could cause the tank shut-off valve to close.</p>	<p>Broken fuel line or loose fuel line connection could cause tank internal shut off valve to close automatically and shut off the fuel supply.</p>	
<p>NOTE</p> <p>Always check through the LP fuel system in order of numerical sequence.</p>			

	WILL NOT START	RUNS UNEVENLY AND LACKS POWER	STOPS DURING OPERATION
(3) I G N I T I O N S Y S T E M	<p>Remove and check spark plug to be sure it is the correct type with proper gap.</p> <p>Check ignition points and condenser.</p> <p>Check ignition coil.</p> <p>Check ignition switch.</p> <p>Check wiring for loose connections or wire breakage.</p> <p>Check battery terminals for corrosion or loose ground cable.</p> <p>Check for possible shorts in wiring.</p> <p>Battery dead.</p> <p>No current to filter - fuel lock solenoid valve or possible defective solenoid.</p>	<p>Check electrical system for loose connections or intermittent shorts.</p> <p>Check spark & electrical system for malfunction of condenser, points, etc.</p> <p>Check for broken wires or defective relay. Relay can be checked by bypassing relay & directly energizing the solenoid valve in filter fuel lock.</p>	<p>Check ignition for poor connections or weak or worn ignition parts.</p>
(4) C A R B U R E T O R	<p>Always check carburetor for proper settings before tampering with regulator adjustment</p> <p>Flooded carburetor - Shut off LP tank valve with ignition switch "on"; crank engine through a few times. If the engine starts, then slowly open tank valve to provide fuel flow through line. If engine does not start before opening fuel tank valve, then choke engine & use standard starting procedure.</p>	<p>Restricted air cleaner.</p> <p>Clean or replace filter element.</p>	<p>Check carburetor setting.</p> <p>Check ignition system.</p>
(5) R E G U L A T O R	<p>Be sure carburetor is properly adjusted before attempting to adjust regulator setting.</p> <p>Check vaporizer regulator. Be sure it is functioning properly. In troubleshooting, be sure all of the previous five check points have been checked thoroughly before making any adjustment to regulator.</p>	<p>Only after checking the carburetor setting should the regulator be checked (too rich too lean). Could very definitely affect operation if carburetor adjustment is correct.</p>	<p>Could be improper setting. Allow too rich or too lean mixture to carburetor. Check and adjust only after checking carburetor adjustment.</p>

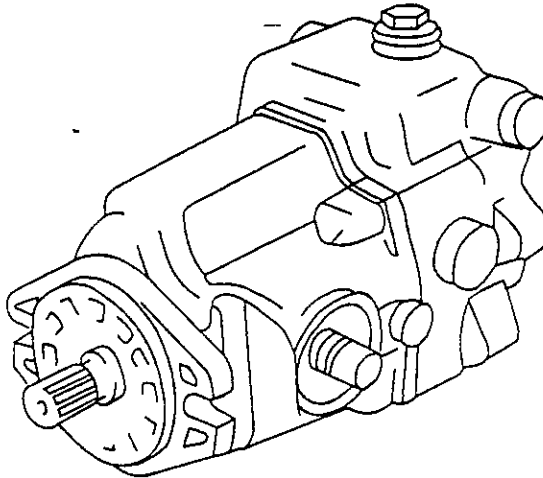
NOTE

Always check through the LP fuel system in order of numerical sequence.

	WILL NOT START	RUNS UNEVENLY AND LACKS POWER	STOPS DURING OPERATION
(6) E N G I N E	Under ordinary circumstances an engine, should start easily if the components previously mentioned have been checked thoroughly and properly adjusted. On an older engine, if proper adjustment on other components are correct, it is possible that major repairs may be required to the basic engine.		
<p style="text-align: center;">NOTE Always check through the LP fuel system in order of numerical sequence.</p>			

TROUBLESHOOTING - CESSNA PUMPS

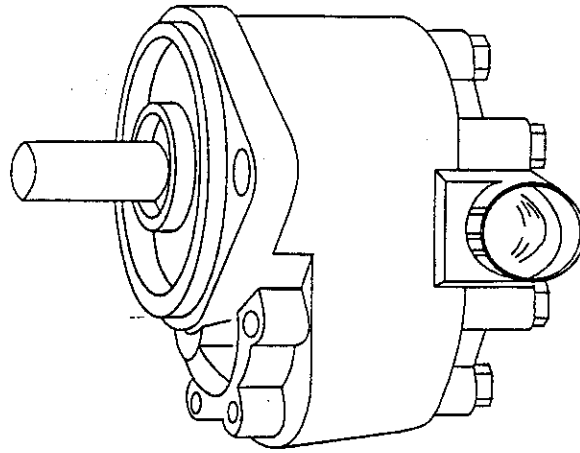
CESSNA FLUID POWER PUMP
70142 SERIES
PART NO. 0885-068
MAIN PUMP



PROBLEM	PROBABLE CAUSE	REMEDY
1. System will not operate either direction	<p>A. Oil supply low</p> <p>B. Oil filter clogged</p> <p>C. Oil too heavy</p> <p>D. Control linkage misadjusted</p> <p>E. Low charge pressure</p> <p>F. Drive coupling broken</p> <p>G. High pressure relief valve stuck open or damaged seat</p>	<p>A. Check oil level, fill.</p> <p>B. Replace filter element</p> <p>C. Use proper viscosity oil.</p> <p>D. Check to see if control linkage is binding or unfastened.</p> <p>E. See below : F & G. Pressure should be 60 - 100 PSI.</p> <p>F. Inspect coupling for sheared spline, key or broken chain.</p> <p>G. Remove relief valve, clean or replace. Inspect relief valve seat.</p>
2. System Noisy	<p>A. Air in system</p> <p>B. Loose suction line</p> <p>C. Clogged suction filter</p> <p>D. Internal pump or motor damage</p>	<p>A. Low oil level in reservoir</p> <p>B. Tighten fittings.</p> <p>C. Replace filter element.</p> <p>D. Disassemble, inspect & repair.</p>
3. Sluggish response to acceleration or deceleration	<p>A. Air in system</p> <p>B. Low charge pressure</p> <p>C. Internal pump or motor wear or damage.</p> <p>D. Relief valve dirty or damaged.</p>	<p>A. See step 1-A, 1-B, 1-C, 2-B</p> <p>B. See step 1-F, 1-G</p> <p>C. Disassemble, inspect and repair</p> <p>D. Remove, clean or replace.</p>

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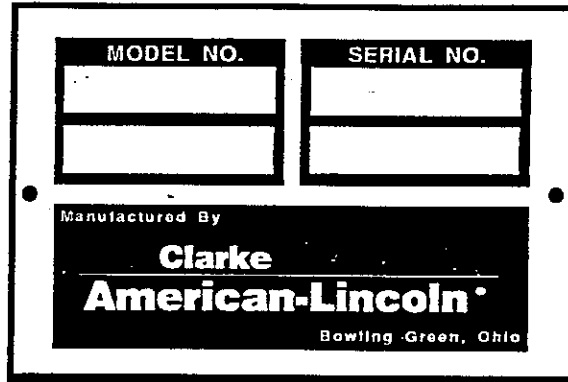
CESSNA FLUID POWER PUMP
 25300 SERIES
 PART NO. 0885-067
 AUXILIARY PUMP



PROBLEM	PROBABLE CAUSE	REMEDY
1. Noisy pump caused by cavitation	A. Oil too heavy B. Oil filter plugged C. Suction line plugged	A. Change to proper viscosity. B. Clean Filters. C. Check and clean suction strainer.
2. Oil heating	A. Oil supply low B. Contaminated oil C. Setting of relief valve too high or too low D. Oil in system too light	A. Fill reservoir B. Drain reservoir & refill with clean oil. C. Set to correct pressure D. Drain reservoir & refill with proper viscosity oil.
3. Shaft seal leakage	A. Worn shaft seal B. Worn shaft in seal area. C. Broken bearing seal or back-up gasket D. Bushings out of position E. Excessive internal wear	A. Replace shaft seal. B. Replace drive shaft. C. If replacing the shaft seal does not stop leakage the pump should be disassembled. D. Disassemble pump and replace front plate. E. Disassemble pump and inspect parts & replace as needed
4. Foaming oil	A. Low oil level B. Air leaking into suction line. C. Wrong kind of oil	A. Fill reservoir B. Tighten fittings. C. Drain and fill reservoir with non-foaming oil.

ORDERING PARTS

Parts can be ordered from Clarke/American-Lincoln authorized distributors. Inspect the Clarke/American-Lincoln serial plate to stop delays in filling your orders:



P-4588

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:

Clarke/American-Lincoln	Clarke/American-Lincoln Distributor
1100 Haskins Road Bowling Green, Ohio 43402 (419) 352-7511	

MACHINE CATALOG NUMBER

- 505-501 Gas Powered Hydraulic Sweeper/Scrubber
- 505-504LPG Powered Hydraulic Sweeper/Scrubber

PARTS LIST

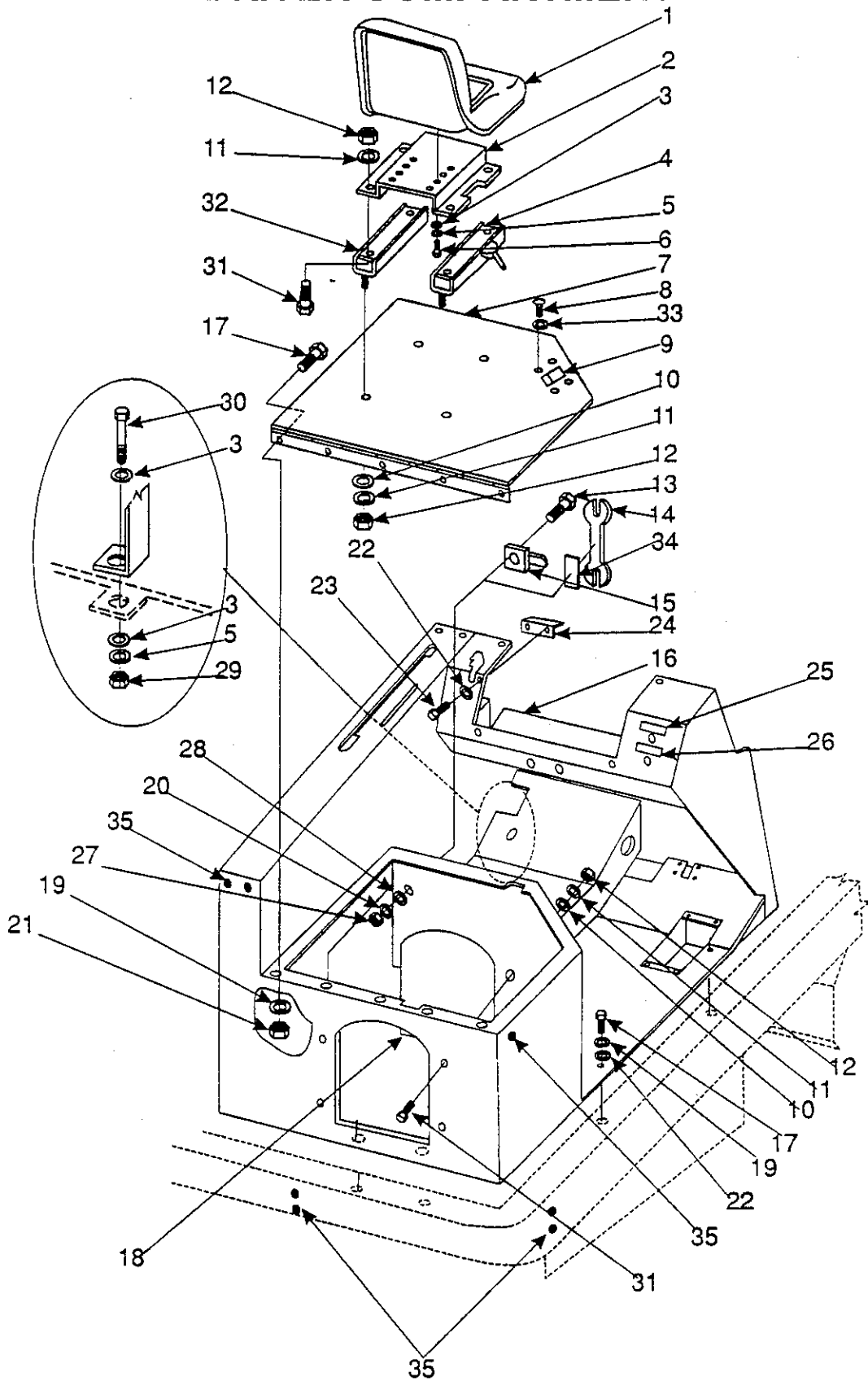
LEGEND - SCREWS

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
FHW	= Flat Head Wood Screw
FILHM	= Filister Head Machine Screw
HHC	= Hexagon Head Cap Screw
HHM	= Hexagon Head Machine Screw
HIHD	= 1/2 High Head Screw
HSHC	= Hexagonal Socket Head Cap-Screw
HSHFC	= Hexagonal Socket Flat Head Cap Screw
KNH	= Knurled Head Screw
MHHC	= Metric Hexagon Head Cap Screw
OHM	= Oval Head Machine Screw
PHM	= Pan Head Machine Screw
RHD	= Round Head Drive Screw
RHM	= Round Head Machine Screw
RHW	= Round Head Wood Screw
SH	= Shoulder Screw
SHC	= Shiny Crown Cap Screw
SHTB	= Shoulder Thumb Screw
SQ	= Square Head Screw
SWHM	= Slotted Washer Head Machine Screw
SEMSM	= SEMS Machine Screw
SEMST	= SEMS Self Tapping Screw
TB	= Thumb Screw
T/C FH	= Thread Cutting Flat Head Screw
T/C FIL.H	= Thread Cutting Filister Head Screw
T/C HH	= Thread Cutting Hexagon Head Screw
T/C OH	= Thread Cutting Oval Head Screw
T/C PH	= Thread Cutting Pan Head Screw
T/C RH	= Thread Cutting Round Head Screw
T/F FH	= Thread Forming Flat Head Screw
T/F FIL.H	= Thread Forming Filister Head Screw
T/F HH	= Thread Forming Hexagon Head Screw
T/F OH	= Thread Forming Oval Head Screw
T/F PH	= Thread Forming Pan Head Screw
T/F RH	= Thread Forming Round Head Screw
THM	= Truss Head Machine Screw
WELD	= Weld Stud
WFHMM	= Washer Head Hexagon Head Machine Screw
WG	= Wing Screw

LEGEND - SETSCREWS

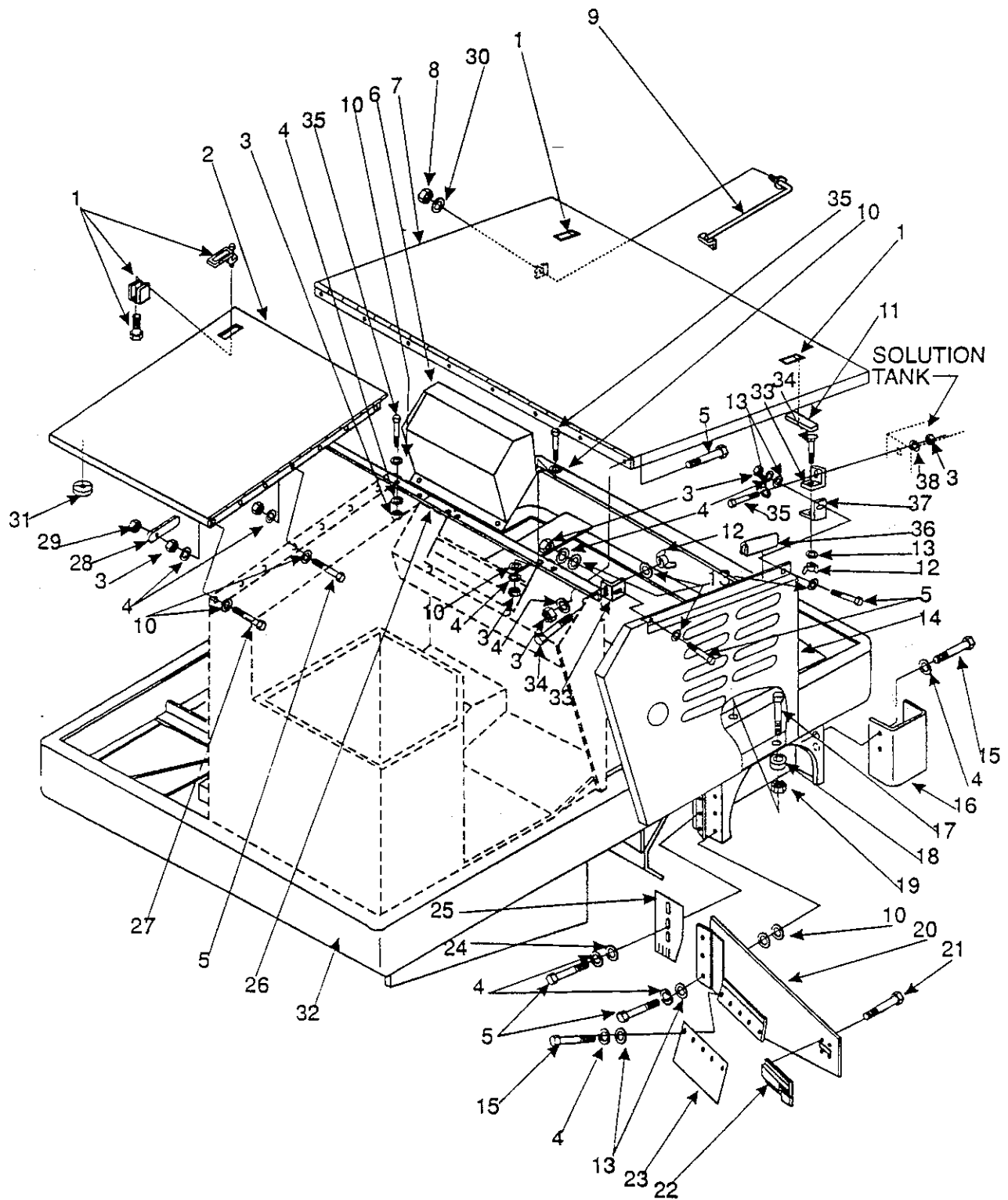
HS	= Hexagonal Socket Setscrew
S	= Slotted Setscrew
SH	= Square Head Setscrew
-KCP	= Knurled Cup Point Setscrew
-CP	= Cup Point Setscrew
-OP	= Oval Point Setscrew
-FDP	= Full Dog Point Setscrew
-HDP	= Half Dog Point Setscrew
-FP	= Flat Point Setscrew
-COP	= Cone Point Setscrew

DRIVER COMPARTMENT



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-69-00003	Driver's Seat	1
2	8-08-00672	Seat Bracket	1
3	2-00-00402	Flat Washer, .750 x .390 x .093	6
4	8-72-05003	Seat Adjuster Slide with Latch	1
5	2-00-02310	Lock Washer, Helical Spring 3/8 Med	5
6	2-00-00232	Screw, 3/8-16 x .750 HHC	4
7	7-16-07331	Seat Deck Lid	1
8	2-00-01081	Screw, #8-32 x .500 T/C RH	4
9	8-41-00032	Door Latch	1
10	2-00-00409	Flat Washer, .687 x .343 x .062	8
11	2-00-00530	Lock Washer, Helical Spring 5/16 Med	8
12	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	8
13	2-00-03061	Screw, #10-24 x .500 THM	1
14	2-00-00686	Double End Wrench, 3/4 - 9/16	1
15	8-13-07068	Wrench Holder Clip	1
16	7-52-00105	Driver Compartment	1
17	2-00-00221	Screw, 1/4-20 x .750 HHC	9
18	7-16-07334	Cover Plate	1
19	2-00-00518	Lock Washer, Helical Spring 1/4 Med	9
20	2-00-00519	Lock Washer, Helical Spring #10 Med	1
21	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	5
22	2-00-00407	Flat Washer, .562 x .265 x .062	6
23	2-00-04876	Screw, 1/4-20 x .500 BHS	2
24	7-08-00655	Bracket, Main Broom Stop	1
25	7-18-00133	Decal, Throttle	1
26	7-18-00132	Decal, Choke	1
27	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	1
28	2-00-00426	Flat Washer, .500 x .218 x .062	1
29	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	1
30	2-00-00233	Screw, 3/8-16 x 1.000 HHC	1
31	2-00-00208	Screw, 5/16-18 x .750 HHC	8
32	8-72-05002	Seat Adjuster Slide	1
33	2-00-00529	Lock Washer, Helical Spring #8 Med	4
34	7-29-00167	Gasket	1
35	2-00-04664	Button Plug, .500	7

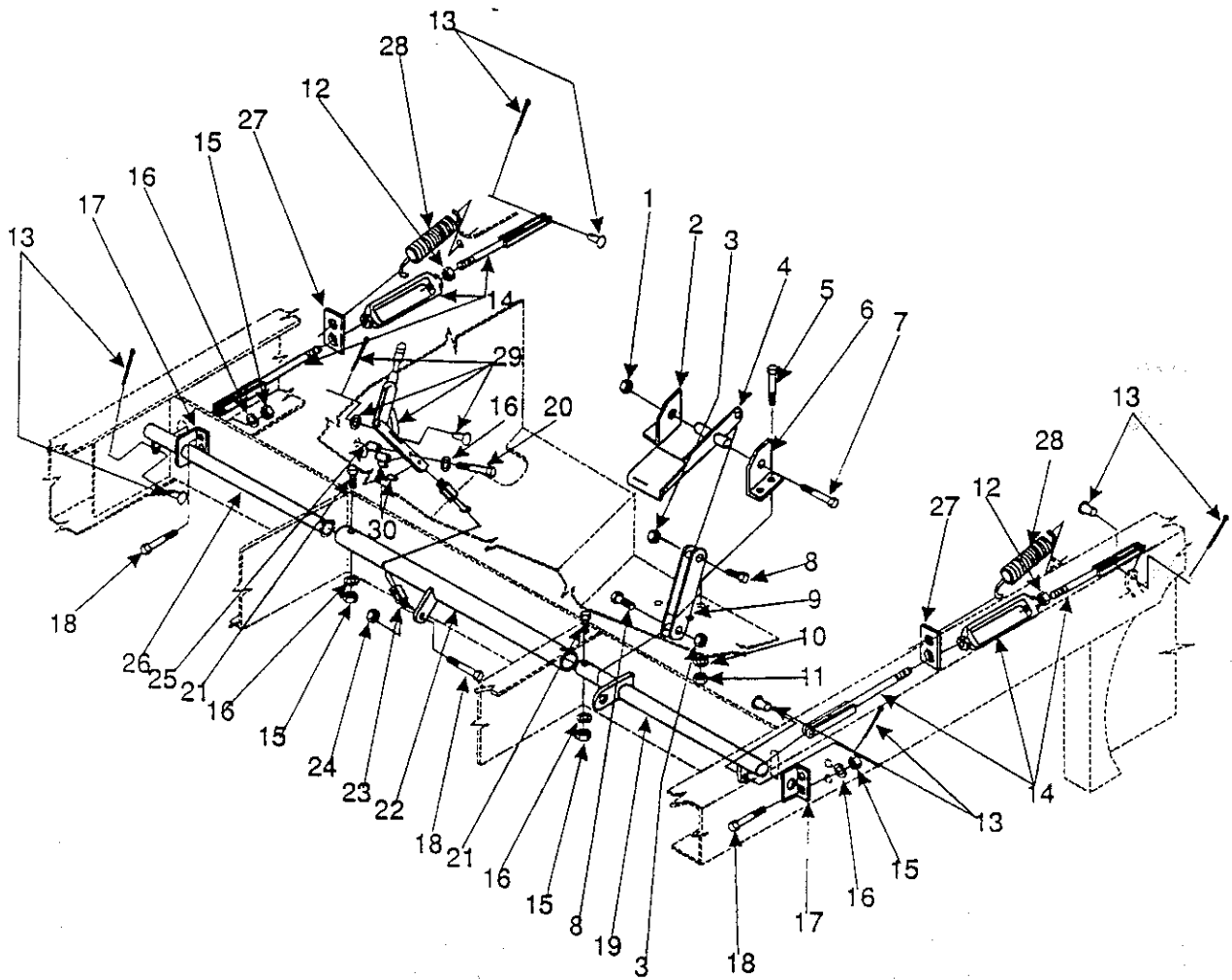
FRAME AND COVERS



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-41-00044	Latch	3
2	7-16-07292	Recovery Lid Cover	1
3	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	27
4	2-00-00518	Lock Washer, Helical Spring 1/4 Med	44
5	2-00-00221	Screw, 1/4-20 x .750 HHC	27
6	7-33-05103	Instrument Panel Housing	1
7	7-16-07327	Solution Tank Cover	1
8	2-00-00644	Nut, Hex Fiber Insert 5/16-18	1
9	7-81-00143	Solution Tank Cover Support	1
10	2-00-00407	Flat Washer, .562 x .265 x .062	37
11	8-29-00187	Gasket	2
12	2-00-00641	Nut, Hex Fiber Insert 1/4-20	3
13	2-00-00416	Flat Washer, .750 x .265 x .062	15
14	7-16-07329	Right Side Cover	1
	7-16-07328	Left Side Cover	1
15	2-00-00220	Screw, 1/4-20 x .625 HHC	12
16	7-52-00087	Right Front Skirt Panel	1
17	2-00-00071	Screw, #10-24 x 1.250 RHM	4
18	2-00-00426	Flat Washer, .500 x .218 x .062	8
19	2-00-01246	Nut, Hex Fiber Insert #10-24	4
20	7-19-08035	Right Hand Broom Door	1
	7-19-08034	Left Hand Broom Door	1
21	2-00-01081	Screw, #8-32 x .500 T/C RH	8
22	8-41-00032	Latch	2
23	7-25-08038	R.H. Broom Chamber Flap	1
24	2-00-01676	Flat Washer, 1.062 x .265 x .062	6
25	7-25-08039	R.H. Broom Door Flap	1
	7-25-08040	Left Hand Broom Door Flap	1
26	7-08-00554	Lintel Bridge Bracket	1
27	2-00-02587	Screw, 1/4-20 x 1.250 HHC	1
28	7-03-04114	Recovery Tank lid Arm	1
29	2-00-00641	Nut, Hex Fiber Insert 1/4-20	1
30	2-00-00409	Flat Washer, .687 x .343 x .062	1
31	7-29-00046	Gasket	1
32	7-27-07154	Frame	1
33	7-08-00593	Side Cover Bracket	3
34	2-00-03575	Carriage Bolt, 1/4-20 x .750	3
35	2-00-00205	Screw, 1/4-20 x 1.000 HHC	9
36	7-21-04034	Edging, 5.000"	2
37	7-08-00654	Bracket, Side Panel Brace	1
38	2-00-04590	Sealing Washer	1

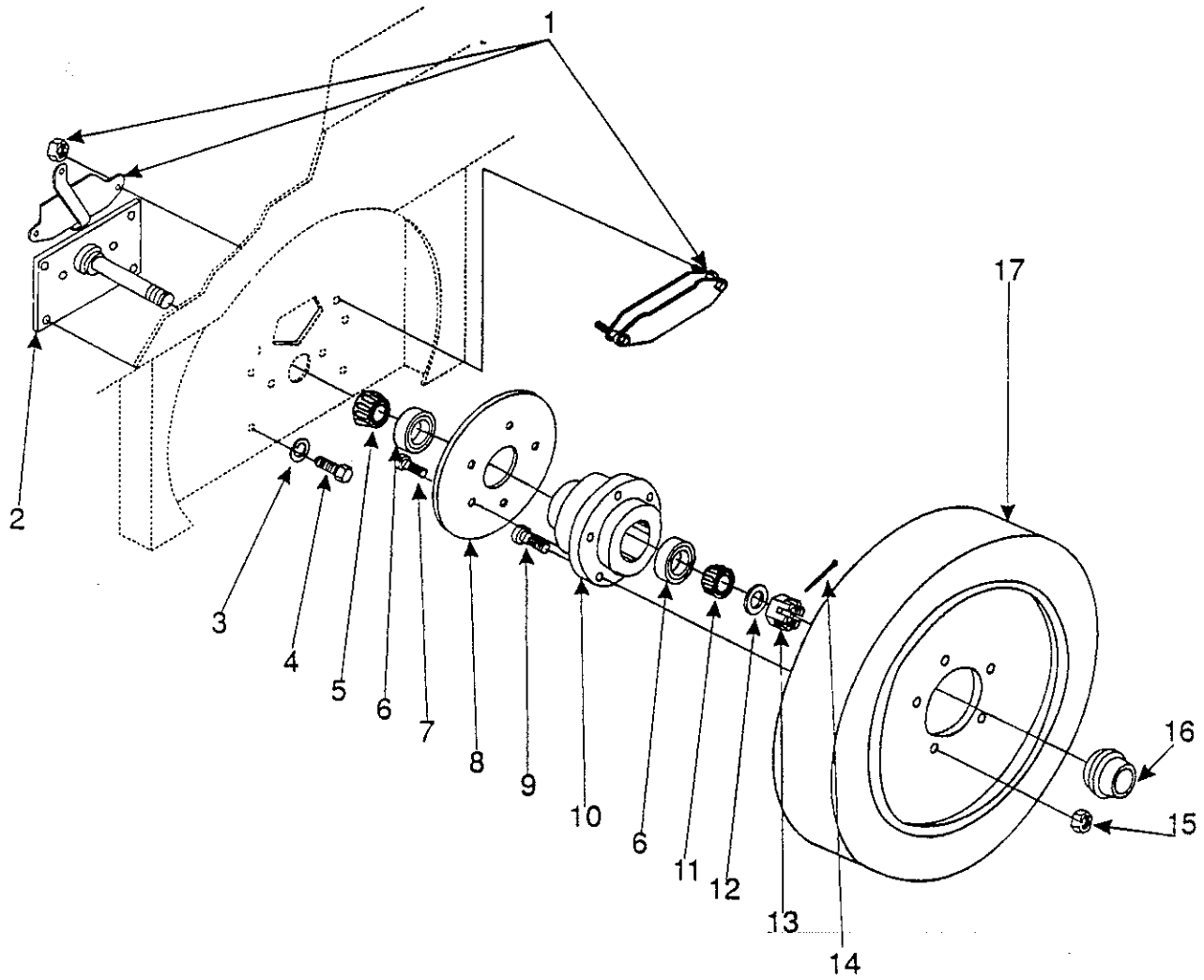
C-0171

BRAKE SHAFT ASSEMBLY



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00640	Nut, Hex Fiber Insert 1/2 - 20	1
2	8-08-00665	Brake Pedal Bracket (L.H.)	1
3	2-95-04182	Nut, Hex Fiber Insert 3/8 - 16	2
4	7-55-00011	Brake Pedal	1
5	2-00-00232	Screw, 3/8-16 x .750 HHC	4
6	8-08-00666	Brake Pedal Bracket (R.H.)	1
7	2-00-02695	Screw, 1/2-20 x 2.500 HHC	1
8	2-00-00233	Screw, 3/8-16 x 1.000 HHC	2
9	7-42-05100	Front Wheel Brake Link	2
10	2-00-02310	Lock Washer, Helical Spring 3/8 Med	4
11	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	4
12	2-00-02369	Nut, Hex Jam 3/8-16 x .562 x .218	2
13	7-55-08123	Yoke Pin, 5/16	4
14	7-16-05025	Turnbuckle Assembly	2
15	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	6
16	2-00-00530	Lock Washer, Helical Spring 5/16 Med	8
17	8-08-00571	Brake Shaft Bracket	2
18	2-00-02708	Screw, 5/16-18 x 1.000 HHM	5
19	7-70-05141	Brake Shaft (R.H.)	1
20	2-00-01770	Screw, 5/16-18 x 2.750 HHC	2
21	2-00-00225	Screw, 5/16-18 x 1.500 HHC	2
22	7-72-03027	Brake Shaft Sleeve	1
23	7-10-00022	Parking Brake Cable Assembly	1
24	2-00-00644	Nut, Hex Fiber Insert 5/16-18	1
25	8-75-01184	Spacer, .843 x .625 x 1.000	2
26	7-70-05142	Brake Shaft (L.H.)	1
27	7-08-00551	Brake Spring Bracket	2
28	7-76-00102	Spring	2
29	7-41-05083	Hand Brake Assembly	1

FRONT WHEEL AND BRAKE

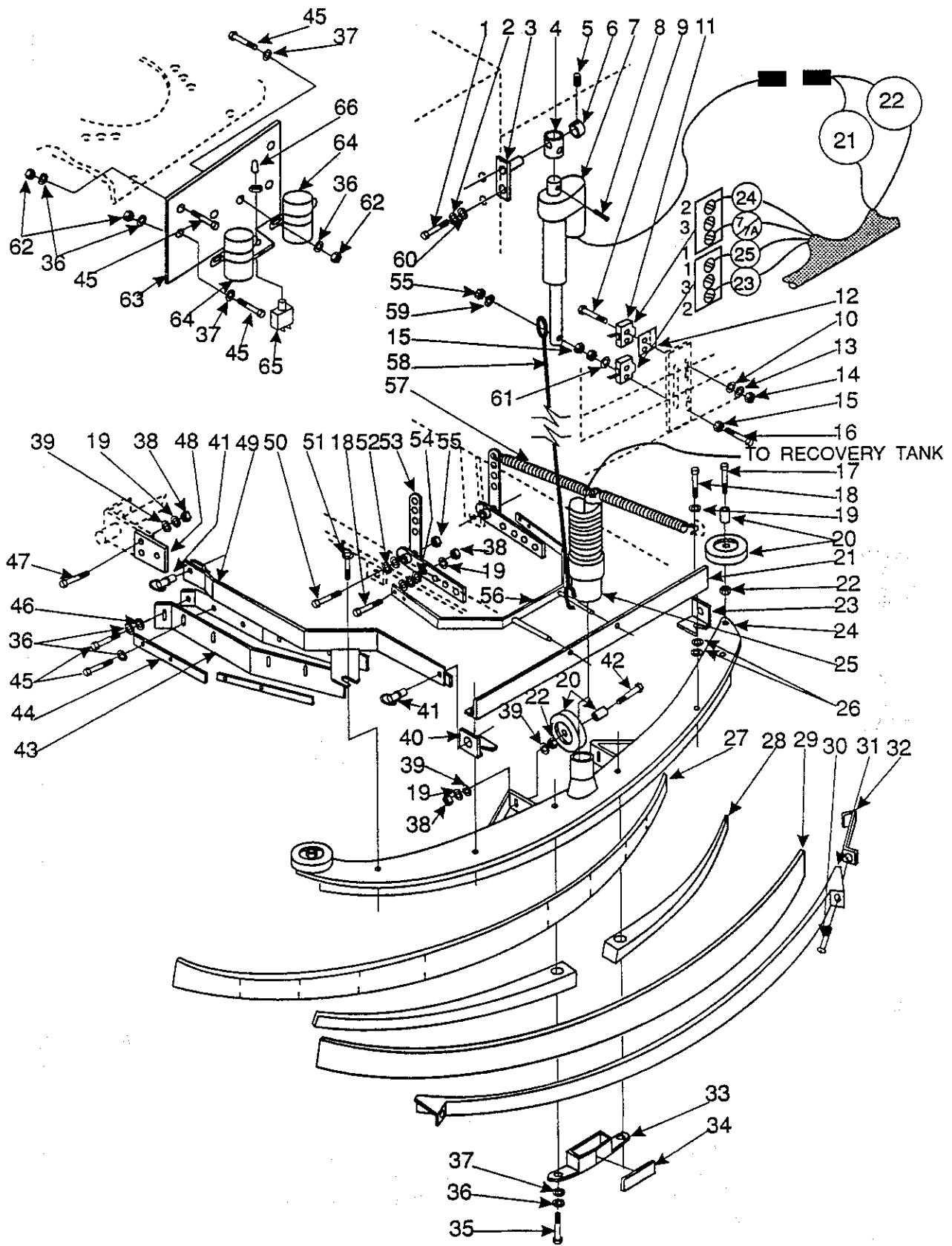


KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-08-02008	Brake Caliper Assembly Weldment	2
2	7-03-09008	Stub Axle Weldment	2
3	2-00-02312	Lock Washer, Helical Spring 1/2 Med	8
4	2-00-02689	Screw, 1/2-20 x 1.000 HHC	8
5	2-00-02079	Roller Bearing, 2.328 x 1.250 x .703	2
6	2-00-04621	Roller Bearing, Cup Only	4
7	2-00-03051	Screw, 1/4-20 x .750 HSHC	10
8	7-08-02007	Brake Disc	2
9	7-80-05065	Stud, 1/2-20 x 1.375	10
10	7-33-09027	Front Wheel Hub	2
11	2-00-04622	Roller Bearing, Cone	2
12	8-75-01136	Flat Washer, 2.000 x 1.265 x .125	2
13	8-23-03056	Nut, Hex Slotted 1 1/4-12	2
14	2-00-00776	Cotter Pin, .125 x 1.500	2
15	8-23-03065	Nut, Chamfered 1/2-20 x .80 x .62	10
16	8-11-00030	Dust Cap	2
17	7-89-08044	Molded Wheel	2

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-39-00002	Control Knob	1
2	7-08-00570	Prop Rod Bracket	1
3	7-83-04101	Solution Tank	1
4	7-16-07290	Solution Tank Lid	1
5	2-00-04688	Nut, Hex 1/4-20 x .437 x .218	6
6	2-00-04687	Lock Washer, Helical Spring 1/4 Med	6
7	2-00-04689	Flat Washer, .687 x .260 x .050	6
8	7-08-00559	Latch Bracket	2
9	2-00-03702	Flat Washer, .625 x .281 x .062	8
10	2-00-04966	Screw, 1/4-20 x 1.500 HHM	6
11	7-82-00017	Float Switch	1
12	2-00-04853	Pipe Reducer Bushing, 1/4 M NPT to 1/8 F NPT	1
13	7-09-01123	Bulkhead Bushing, 1/4 NPT	1
14	0760-223	Tank Plug	1
15	7-25-02053	90° Elbow, 3/4 NPT to 3/4 Barbed	2
16	2-00-02220	Hose Clamp, .812 - 1.500	3
17	7-33-02232	Hose, .750 x 66.000	1
18	2-00-04563	Screw, #10-24 x .625 x .375 SH	2
19	8-14-01006	Clevis, 1/4-28 x .250 x 2.000	2
20	2-00-01246	Nut, Hex Fiber Insert #10-24	2
21	7-88-00027	Solution Feed Valve	1
22	7-03-04087	Solution Feed Linkage Arm	1
23	2-00-03586	Pipe Nipple, 3/4 NPT x 2.000 Short	1
24	2-00-00221	Screw, 1/4-20 x .750 HHC	2
25	7-08-00415	Bracket	1
26	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	2
27	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
28	7-25-02052	Straight Barb Stem, 3/4 NPT to 3/4 Barb	1
29	7-33-02233	Hose, .750 x 21.000	1
30	7-16-00009	Forward / Reverse Cable	1
31	2-95-01999	Nut, Hex Jam 1/4-28 x .437 x .156	2
32	2-00-00209	Screw, 3/8-16 x 1.250 HHC	4
33	2-00-02310	Lock Washer, Helical Spring 3/8 Med	4
34	2-95-04689	Flat Washer, 2.000 x .406 x .162	4
35	7-75-01116	Spacer,	10
36	7-24-04034	Strainer Filter	1
37	2-00-00225	Screw, 5/16-18 x 1.500 HHC	1
38	7-41-05078	Solution Control Linkage Lever	1
39	2-00-00585	Nut, Hex 5/16-18 x .500 x .265	1
40	2-00-00530	Lock Washer, Helical Spring 5/16 Med	1
41	7-09-01057	Flanged Bushing, .328 x .875 x .490	2
42	2-00-03382	Spring Washer, .875 x .500 x .015	1
43	2-00-04345	Ty-Rap	1
44	7-34-09023	Insulating Sleeve	1
45	2-00-00605	Nut, #10-24 Hex	1
46	2-00-00519	Lock Washer, Helical Spring #10	1
47	2-00-04937	Tie Clamp	1
48	2-00-03063	Screw, #10-24 x .750 THM	1

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-16-07291	Recovery Tank Lid	1
2	7-21-04036	Edging, 62.500"	1
3	7-09-01124	Bulk Head Fitting	1
4	7-09-01122	Float Switch and Bushing	1
5	7-83-04100	Recovery Tank	1
6	2-00-02711	Screw, 3/8-16 x 2.750 HHC	4
7	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	6
8	7-33-02234	Tank Outlet Hose	1
9	2-00-02214	Hose Clamp, 1.312 - 2.250	2
10	7-87-02152	Recovery Tank Feed Tube	1
11	2-00-02907	Screw, 1/4-20 x 1.250 RHM	4
12	7-29-00168	Recovery Tank Tube Gasket	1
13	7-08-00565	Inside Recovery Tank Bracket	2
14	7-89-07033	Recovery Tank Tube Plate	1
15	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
16	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	4
17	7-32-03012	Drain Tube Holder	1
18	2-00-00409	Flat Washer, .687 x .343 x .062	1
19	2-00-00208	Screw, 5/16-18 x .750 HHC	1
20	7-87-02153	Recovery Tank Tube	1
21	0760-327	Drain Plug Assembly	1
	7-25-02030	Drain Plug	1
22	2-00-00209	Screw, 3/8-16 x 1.250 HHC	4
23	2-00-02310	Lock Washer, Helical Spring 3/8 Med	6
24	2-95-04689	Flat Washer, 2.000 x .406 x .162	4
25	7-75-01115	Recovery Tank Spacer	10
26	7-81-00146	Recovery Tank Support	1
27	7-08-00560	Recovery Tank Bracket	1
28	2-00-00402	Flat Washer, .750 x .390 x .093	2
29	2-00-00233	Screw, 3/8-16 x 1.000 HHC	2
30	2-00-04688	Nut, Hex 1/4-20 x .437 x .218	3
31	2-00-00407	Flat Washer, .562 x .265 x .062	3
32	7-10-04008	Float Cage	1
33	7-26-04012	Recovery Float	1
34	7-33-02229	Vacuum Manifold Hose	1
35	7-13-07104	Hose Clamp,	2
36	7-20-06006	Recovery Tank Duct	1
37	2-00-04687	Lock Washer, Helical Spring 1/4 Med	3
38	2-00-04966	Screw, 1/4-20 x 1.500 HHM	1
39	2-00-04685	Screw, 1/4-20 x .750 HHC	2
40	2-00-04590	Sealing Washer, .625 x .250	1
41	2-00-00205	Screw, 1/4-20 x 1.000 HHC	1
42	0775-164	Float Switch	1
43	2-00-02212	Hose Clamp, 1.812 - 2.750	1
44	7-33-02235	Switch Support Hose	1
45	2-00-00530	Lock Washer, Helical Spring 5/16 Med	1
46	2-00-00585	Nut, Hex 5/16-18	1
C-0175			

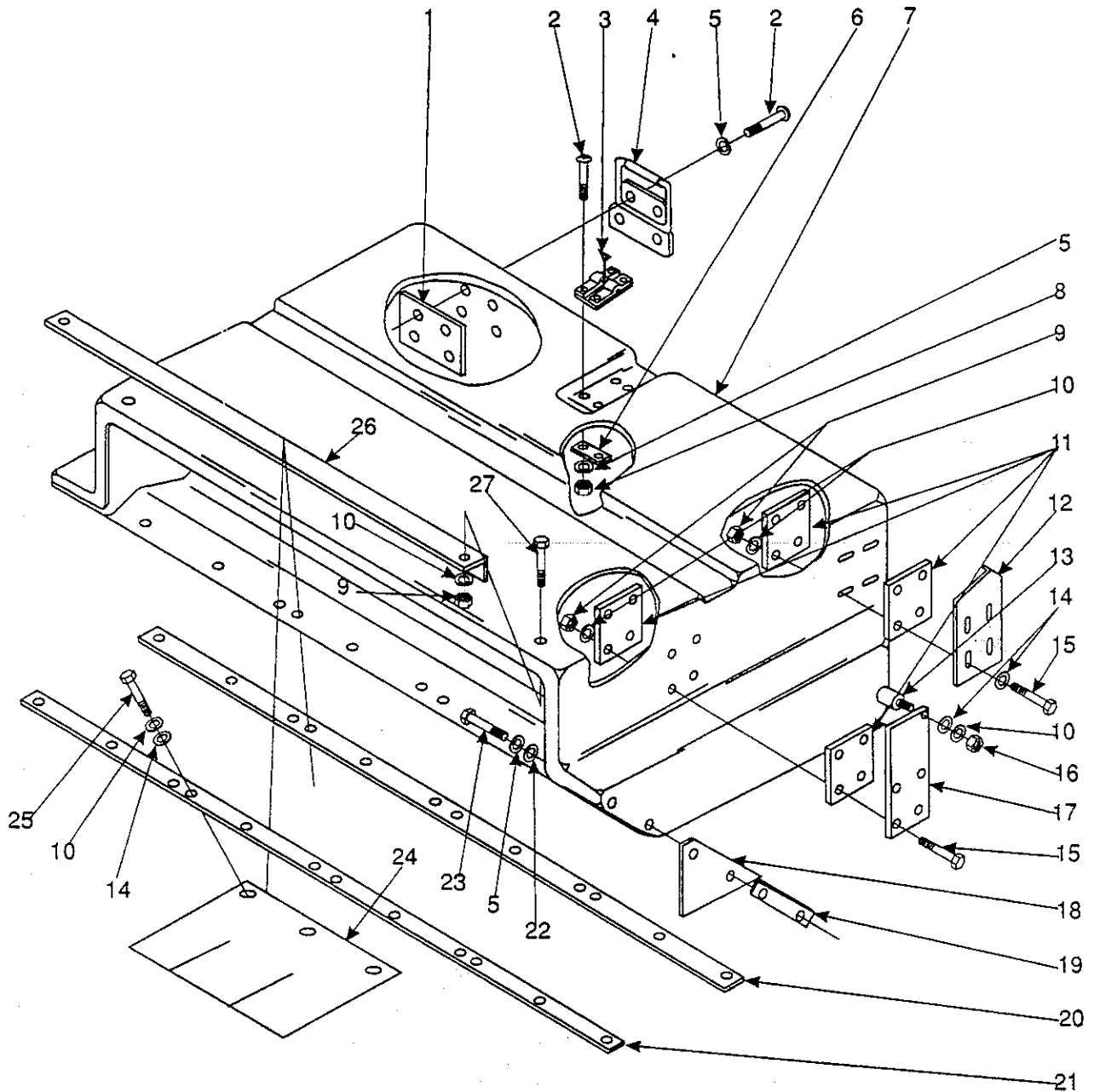
SIDE AND REAR SQUEEGEE ASSEMBLY



C-0172

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-01255	Screw, 5/16-18 x .875 HHC	2
2	2-00-00530	Lock Washer, Helical Spring 5/16 Med	2
3	7-08-00397	Bracket	1
4	7-72-03028	Actuator Sleeve	1
5	2-00-00263	Setscrew, 1/4-20 x .250 HS-KCP	1
6	8-15-01016	Setscrew Collar, 1.000 x .500 x .437	1
7	0782-122	Squeegee Lift Actuator	1
8	2-00-04663	Radial Locking Spring Pin, .500 x 2.750	1
9	2-00-05060	Screw, #6-32 x 1.250 RHM	4
10	2-00-00455	Flat Washer, .375 x .156 x .046	4
11	7-82-00023	Microswitch	2
12	7-35-00013	Microswitch Insulation	2
13	2-00-01499	Lock Washer, Helical Spring #6 Med	4
14	2-00-00624	Nut, Hex MS #6-32 x .312 x .109	4
15	2-00-02371	Nut, Hex Jam 1/2-13 x .750 x .312	3
16	2-00-04854	Bolt, Square Reg. 1/2-13 x 3.500	1
17	2-00-00234	Screw, 3/8-16 x 1.500 HHC	2
18	2-00-00209	Screw, 3/8-16 x 1.250 HHC	6
19	2-00-02310	Lock Washer, Helical Spring 3/8 Med	12
20	7-89-08039	Wheel	4
21	7-08-00566	Rear Squeegee Bracket	1
22	2-00-02369	Nut, Hex Jam 3/8-16 x .562 x .218	4
23	7-08-00555	Right Hand Squeegee Lift Bracket	1
24	7-86-08024	Rear Squeegee Tool	1
25	7-33-02231	Squeegee Hose	1
26	2-95-04689	Flat Washer, 2.000 x .406 x .162	4
27	7-77-00077	Front Squeegee Rubber	1
28	7-75-01114	Rear Squeegee Blade Spacer	2
29	7-77-00076	Rear Squeegee Rubber	1
30	2-00-00060	Screw, 1/4-20 x 1.250 RHM	2
31	7-13-07111	Squeegee Band Clamp	1
32	7-13-07094	Squeegee End Clamp	2
33	7-20-06005	Squeegee Inlet Duct	1
34	7-50-00021	Squeegee Grip Pad	1
35	2-00-00203	Screw, 1/4-20 x 1.500 HHC	2
36	2-00-00518	Lock Washer, Helical Spring 1/4 Med	18
37	2-00-00407	Flat Washer, .562 x .265 x .062	6
38	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	12
39	2-00-00402	Flat Washer, .750 x .390 x .093	8
40	7-08-00556	Left Hand Squeegee Lift Bracket	1
41	7-55-08110	Side Skirt Lock Pin	4
42	2-00-04048	Screw, 3/8-16 x 2.000 HHC	2
43	7-25-08044	Side Squeegee Flap	2
44	7-79-00065	Side Squeegee Strap	4
45	2-00-00221	Screw, 1/4-20 x .750 HHC	16
46	2-00-01676	Flat Washer, 1.062 x .265 x .062	2
47	2-00-00233	Screw, 3/8-16 x 1.000 HHC	4
48	7-58-05225	Squeegee Mounting Plate	2
49	7-42-05105	Left Hand Side Squeegee Link	1
49	7-42-05106	Right Hand Side Squeegee Link	1
50	2-00-00247	Screw, 1/2-13 x 2.500 HHC	2
51	7-80-05071	Locator Pin Stud	2
52	2-95-04329	Flat Washer, .750 x .505 x .065	4
53	7-03-04112	Squeegee Lift Arm	2
54	2-00-04801	Flat Washer, .375 x .375 x .125	12
55	2-00-04936	Nut, Hex Fiber Insert 1/2-13	3
56	7-92-00036	Squeegee Lift Yoke	1
57	7-76-00102	Spring	4
58	7-10-00023	Squeegee Lift Cable	1
59	2-00-00405	Flat Washer, 1.062 x .531 x .093	1
60	2-00-00409	Flat Washer, .687 x .343 x .062	2
61	2-00-00427	Flat Washer, .875 x .515 x .062	2
62	2-00-00594	Nut, Hex 1/4-20	6
63	7-52-00109	Panel, Squeegee Solenoid	1
64	7-15-08006	Contactore	2
65	8-64-00007	Circuit Breaker, 10 Amp	1
66	8-11-00044	Boot	1

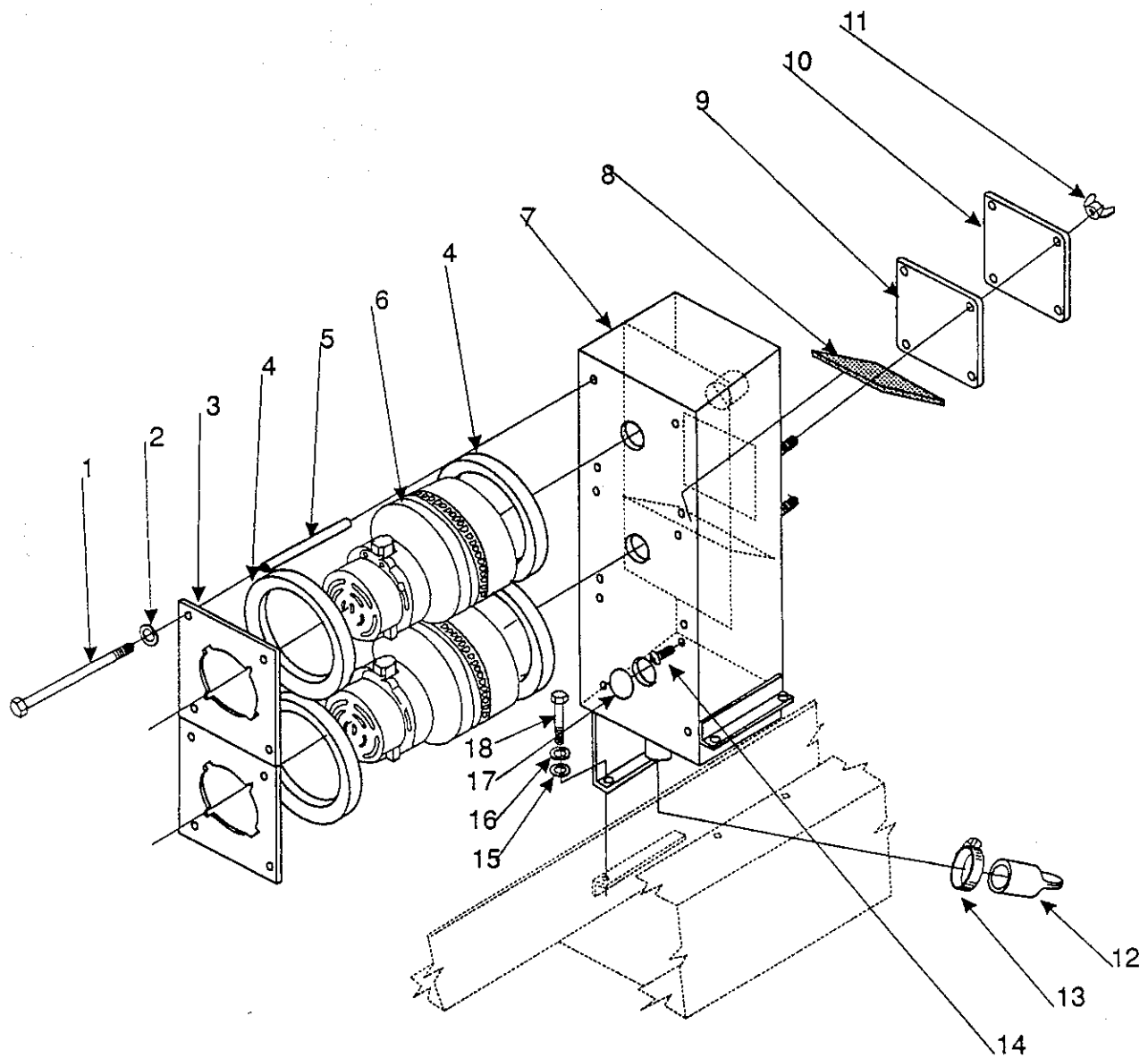
HOPPER ASSEMBLY - SWEEPER SCRUBBER



P-5004

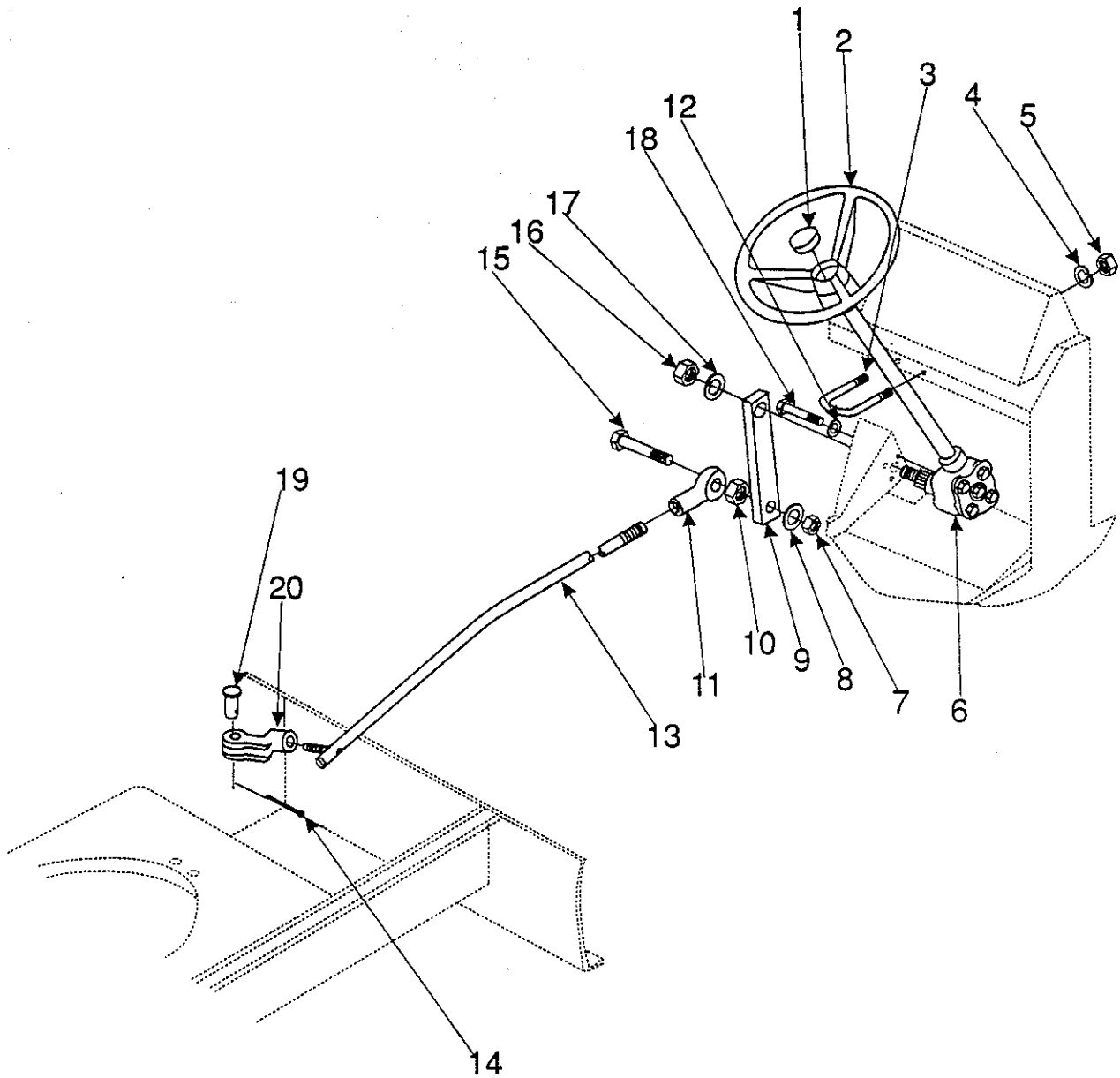
KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-81-00142	Hopper Handle Support	2
2	2-00-00039	Screw, #10-24 x 1.000 RHM	12
3	7-41-00022	Hopper Latch	1
4	7-31-06064	Hopper Handle	2
5	2-00-00519	Lock Washer, Helical Spring #10 Med	16
6	7-58-05224	Hopper Backing Plate	2
7	7-32-06009	Debris Hopper	1
8	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	4
9	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	18
10	2-00-00518	Lock Washer, Helical Spring 1/4 Med	32
11	7-75-01113	Hopper Roller Support Spacer	8
12	7-08-00562	Right Hand Hopper Keeper Bracket	1
	7-08-00563	Left Hand Hopper Keeper Bracket	1
13	7-66-05008	Bearing Support Roller	2
14	2-00-00407	Flat Washer, .562 x .265 x .062	22
15	2-00-00203	Screw, 1/4-20 x 1.500 HHC	16
16	2-95-01999	Nut, Hex Jam 1/4-28 x .437 x .156	2
17	7-81-00141	Hopper Roller Support	2
18	7-25-08041	Hopper Flap	2
19	7-79-00063	Hopper Lift Strap	2
20	7-79-00066	Lower Hopper Strap	1
21	7-89-07002	Upper Hopper Strap	1
22	2-00-00426	Flat Washer, .500 x .218 x .062	4
23	2-00-00118	Screw, #10-24 x .625 RHM	4
24	7-25-08042	Hopper Flap	4
25	2-00-00205	Screw, 1/4-20 x 1.000 HHC	12
26	7-81-00144	Hopper Top Support	1
27	2-00-03216	Screw, 1/4-20 x 1.000 THM	2

VACUUM ASSEMBLY



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-02933	Screw, #10-24 x 3.500 RHM	8
2	2-00-00519	Lock Washer, Helical Spring #10 Med	8
3	7-58-05213	Vacuum Motor Mounting Plate	2
4	2-22-00003	Motor Mounting Ring	4
5	7-75-01098	Spacer, .312 x .257 x 2.750	8
6	0782-104	Electric Motor and Fan, 2 Stage/36 VDC	2
7	7-48-00023	Vacuum Fan Manifold	1
8	7-24-04033	Vacuum Manifold Filter	1
9	7-29-00166	Vacuum Manifold Cover Gasket	1
10	7-16-07287	Vacuum Manifold Cover	1
11	2-00-00672	Wing Nut, 1/4-20	4
12	8-88-00016	Vacuum Valve	1
13	2-00-02220	Hose Clamp, .812 - 1.500	1
14	2-00-00049	Screw, #10-24 x .500 RHM	4
15	2-00-00407	Flat Washer, .562 x .265 x .062	4
16	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
17	2-00-04431	Plug Button, 2.000	1
18	2-00-00221	Screw, 1/4-20 x .750 HHC	4

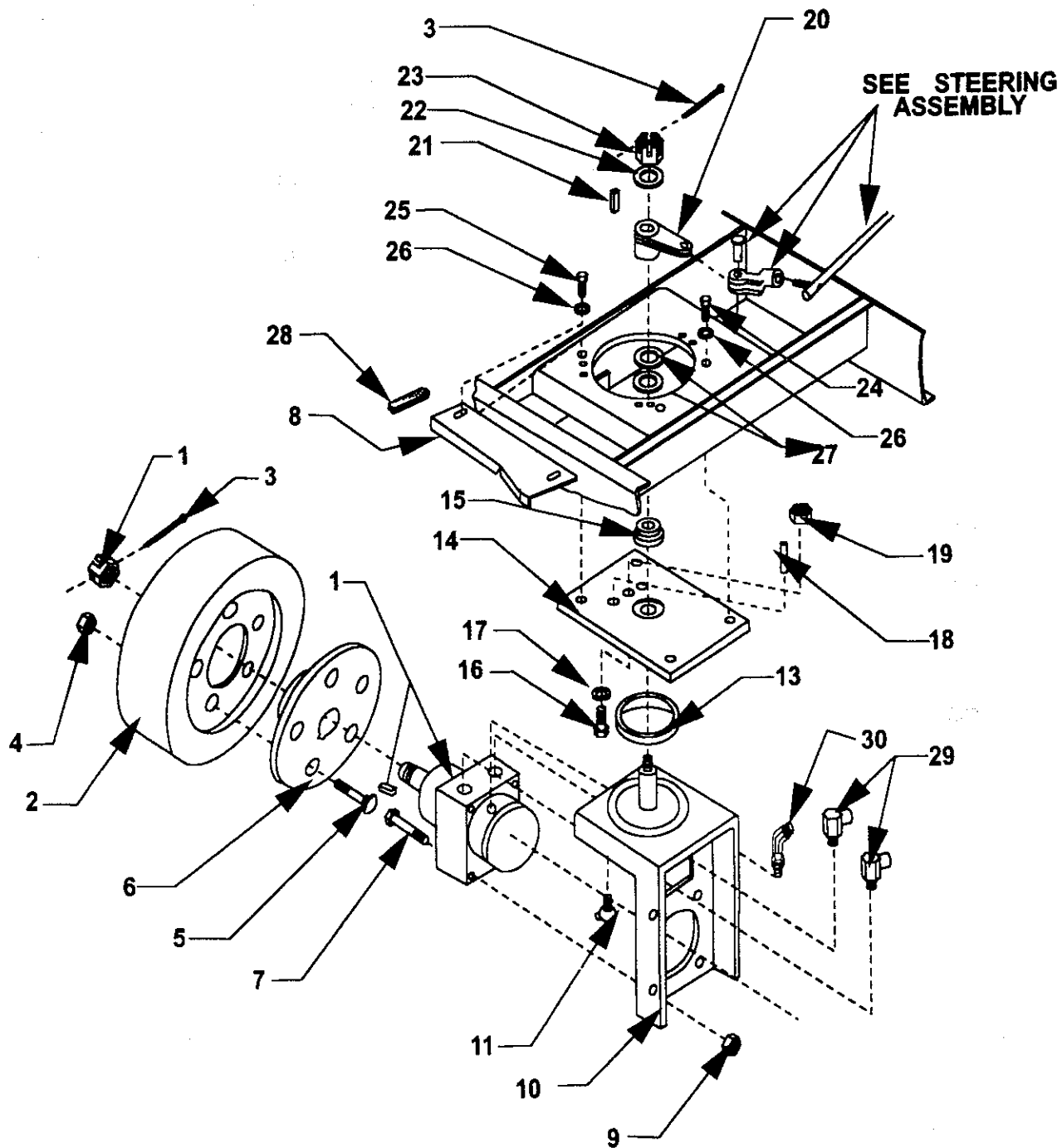
STEERING ASSEMBLY



C-0176

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-11-00022	Steering Wheel Cap	1
2	8-89-08016	Steering Wheel	1
3	8-13-07003	Steering Column Clamp	1
4	2-00-00518	Lock Washer, Helical Spring 1/4 Med	6
5	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	2
6	0801-550	Steering Column Assembly	1
7	2-00-04936	Nut, Hex Fiber Insert 1/2-13	1
8	2-00-00405	Flat Washer, 1.062 x .531 x .093	1
9	7-03-04111	Steering Arm	1
10	2-00-01672	Nut, Hex Jam 5/8-11 x .937 x .375	1
11	8-66-00144	Rod End	1
12	2-00-01879	Lock Washer, Helical Spring 7/16 Heavy	3
13	7-66-00156	Rear Steering Rod	1
14	2-00-00773	Cotter Pin, .062 x 1.000	1
15	2-00-02682	Screw, 1/2-13 x 2.750 HHC	1
16	2-00-00590	Nut, Hex 5/8-18 x .937 x .546	1
17	2-00-02313	Lock Washer, Helical Spring 5/8 Med	1
18	2-00-00238	Screw, 7/16-14 x 1.250 HHC	3
19	7-55-08125	Yoke Assembly Pin (Includes #14)	1
20	7-14-01019	Rear Wheel Clevis	1

REAR WHEEL ASSEMBLY

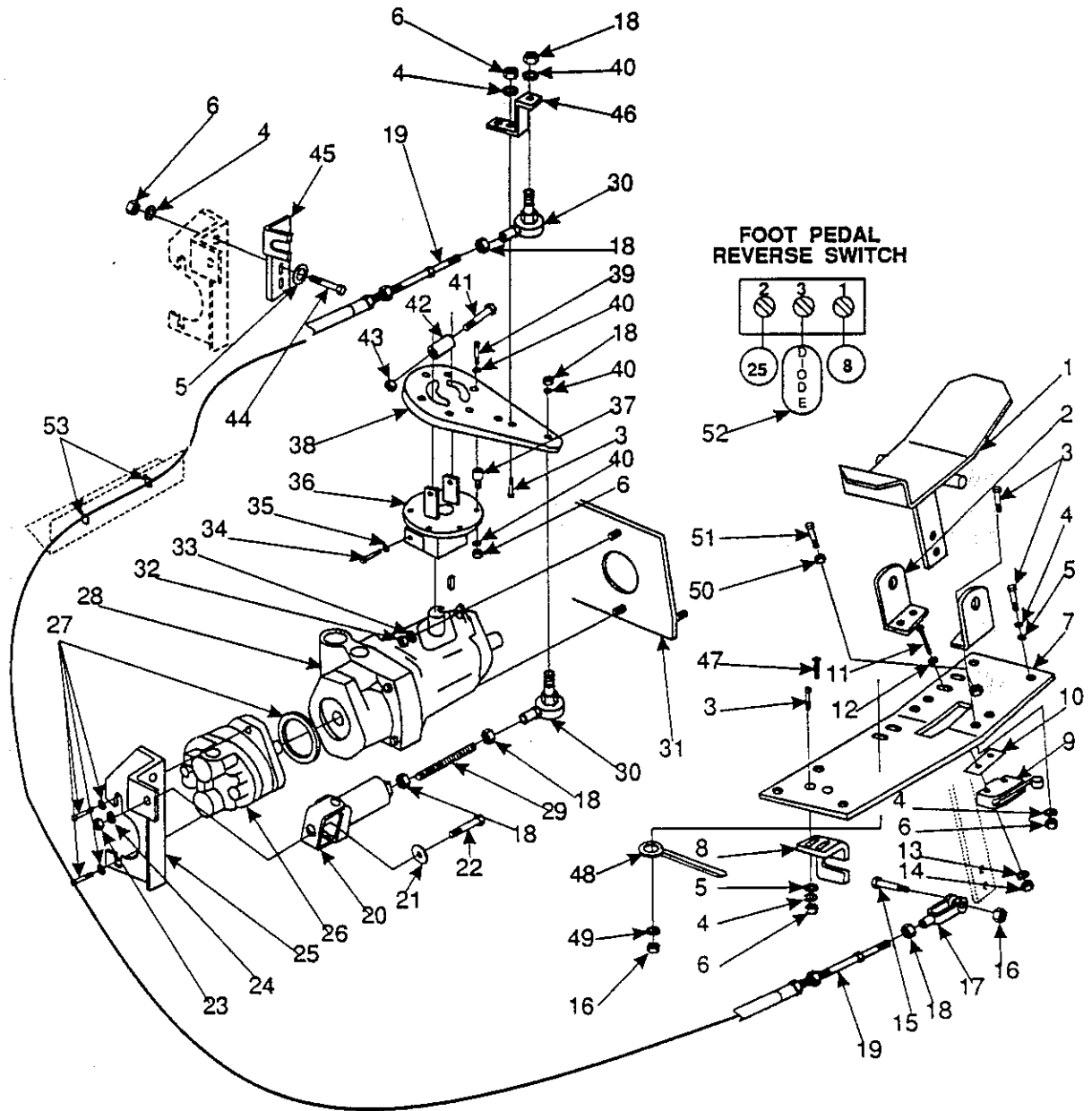


C-0177/9703

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	0885-072	Hydraulic Motor	1
2	7-89-08058	Drive Motor	1
3	2-00-00776	Cotter Pin	2
4	7-23-03101	Nut, Chamfered M14 x 1.5	5
5	7-80-05227	Wheel Stud, M14 x 1.5	5
6	7-33-09028	Rear Wheel Hub	1
7	2-00-02682	Screw, 1/2-13 x 2.750 HHC	4
8	7-30-05083	Guard, Actuator Solenoids	1
9	2-00-04936	Nut, Hex 1/2-13 Fiber Lock	4
10	7-81-00162	Rear Wheel Support	1
11	2-00-02568	Lubrication Fitting, 45° x 1/8 NPT	1
12			
13	2-00-04455	Thrust Bearing	1
14	7-58-05229	Bearing Mounting Plate	1
15	2-00-04456	Cup Bearing	1
16	2-00-03051	Screw, 1/4-20 x .750 SHCS	1
17	2-00-00518	Lock Washer, 1/4	1
18	2-00-01260	Dowel Pin, .250 x .625	2
19	2-00-00594	Nut, Hex 1/4-20	1
20	7-03-04121	Rear Wheel Steering Arm	1
21	2-00-03761	Key, .250 x 1.75 SQ	1
22	2-00-05263	Flat Washer, 3/4	1
23	2-00-04841	Nut, Hex Slotted 3/4-16	1
24	2-00-00239	Screw, 1/2 - 13 x 1.000 HHC	2
25	2-00-00240	Screw, 1/2 - 13 x 1.250 HHC	2
26	2-00-02312	Lock Washer, 1/2	4
27	2-00-03797	Flat Washer, 2.250 x 1.275 x .037	2
28	7-21-04025	Edging	1
29	2-00-05355	Elbow 90° Swivel #10 SAE-#8ORS	2
30	2-00-04892	Elbow 90°, #4 SAE-#4ORS	1

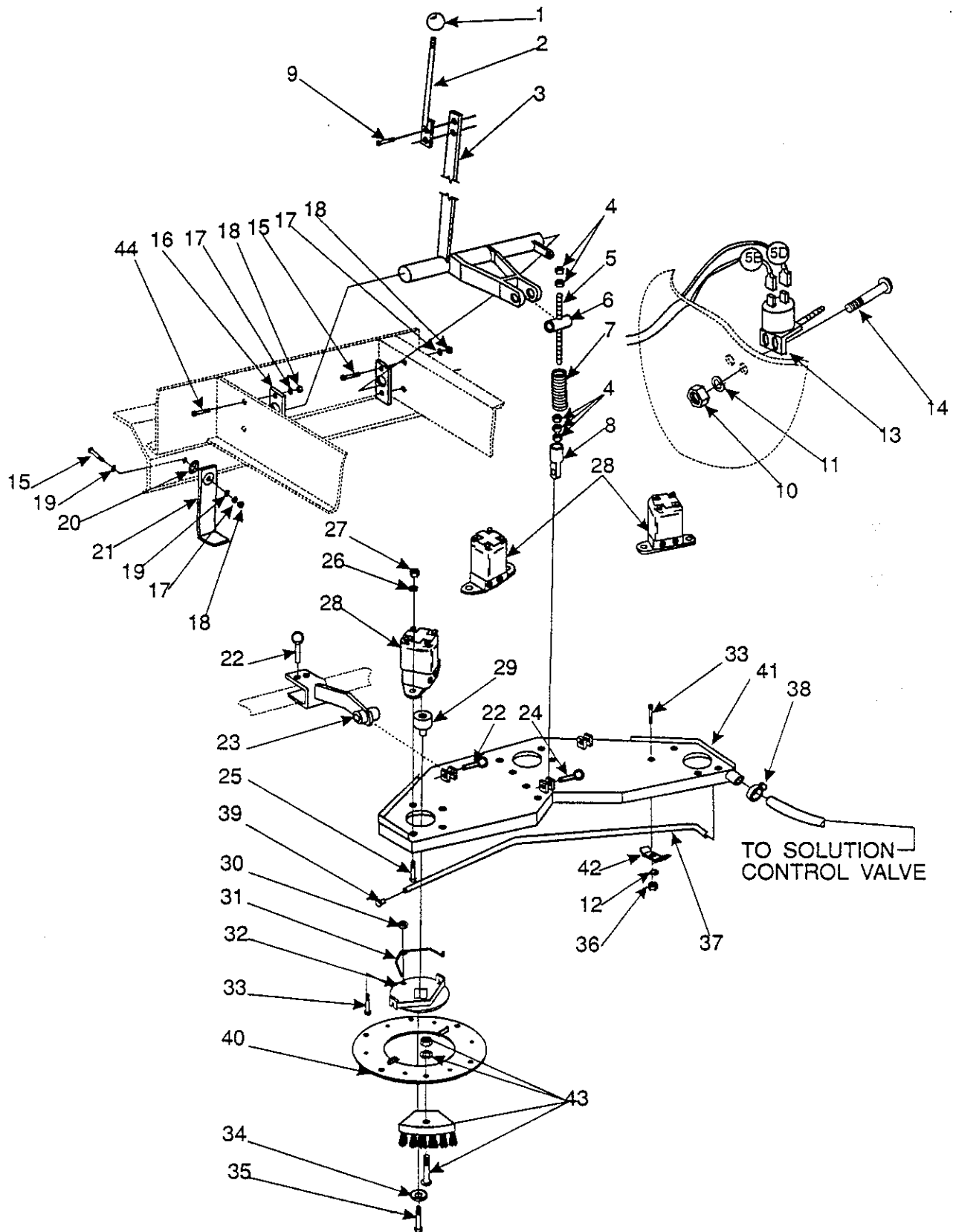
C-0177/9703

FORWARD REVERSE ASSEMBLY



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-55-00012	FORWARD/REVERSE PEDAL	1
2	7-08-00591	FORWARD/REVERSE PEDAL BRACKET	2
3	2-00-00221	SCREW, 1/4-20 X .750 HHC	12
4	2-00-00518	LOCKWASHER, 1/4 MED. H.S.	14
5	2-00-00407	FLAT WASHER, .562 X .265 X .062	8
6	2-00-00594	NUT, HEX 1/4-20	16
7	7-16-07317	PLATE, FORWARD & REVERSE CONTROL	1
8	8-08-00506	BRACKET, ACCELERATOR CABLE MOUNT	1
9	7-82-00024	MICRO SWITCH	1
10	7-35-00013	MICRO SWITCH INSULATION	1
11	2-00-05060	SCREW, #6-32 X 1.25 RHM	2
12	2-00-00455	FLAT WASHER, .375 X .156 X .046	2
13	2-00-01499	LOCKWASHER, #6 MED. H.S.	2
14	2-00-00624	NUT, HEX #6-32	2
15	2-00-04563	SCREW, #10-24 X .625 S.H.	1
16	2-00-01246	NUT, HEX FIBER INSERT #10-24	2
17	8-14-01006	CLEVIS	1
18	2-95-01999	NUT, HEX JAM 1/4-28	6
19	8-16-00030	CABLE	1
20	8-16-00025	CENTERING CONTROL	1
21	2-00-00405	FLAT WASHER, 1.062 X .531 X .093	1
22	2-00-00239	SCREW, 1/2-13 X 1.000 HHC	1
23	2-00-02352	NUT, HEX 1/2-13	1
24	2-00-02312	LOCKWASHER, 1/2 MED. H.S.	1
25	7-08-00635	BRACKET, HYDROBACK	1
26	8-60-05007	PUMP, GEAR (.84)	1
27	0880-404	PUMP ASSEMBLY KIT	1
28	8-60-05006-2	PISTON PUMP (1.24)	1
29	7-66-00147	ROD, 1/4-28 X 3.000	1
30	7-25-02050	ROD END, 1/4-28	2
31	7-58-05231	PUMP MOUNTING PLATE	1
32	2-00-00643	NUT, HEX 3/8-16 FIBER LOCK	2
33	2-00-00402	FLAT WASHER, .750 X .390 X .093	2
34	2-00-00225	SCREW, 5/16-18 X 1.500 HHC	1
35	2-00-00530	LOCKWASHER, 5/16 MED. H.S.	1
36	7-03-04105	TRANSMISSION ARM	1
37	7-75-01089	ISOLATOR	6
38	7-58-05220	TRANSMISSION PLATE	1
39	2-00-00219	SCREW, 1/4-20 X .500 HHC	6
40	2-00-00501	LOCKWASHER, 1/4 INT.	14
41	2-00-00246	SCREW, 1/4-20 X 2.250 HHC	1
42	7-75-01110	TRANSMISSION ARM SPACER	1
43	2-00-00641	NUT, HEX FIBER INSERT 1/4-20	1
44	2-00-00205	SCREW, 1/4-20 X 1.000 HHC	2
45	7-08-00634	CABLE MOUNTING BRACKET	1
46	7-03-04107	ARM, SHIFT	1
47	2-00-04897	SCREW, #10-24 x 1 1/4 THM	1
48	2-00-04937	WIRE TIE	1
49	2-00-00426	FLAT WASHER	1
50	2-00-00596	NUT, HEX 1/2-13 X .437 X .750	1
51	2-00-00240	SCREW, 1/2-13 X 1.25	1
52	0775-167	DIODE ASSEMBLY	1
53	2-00-04345	TY-RAP	2

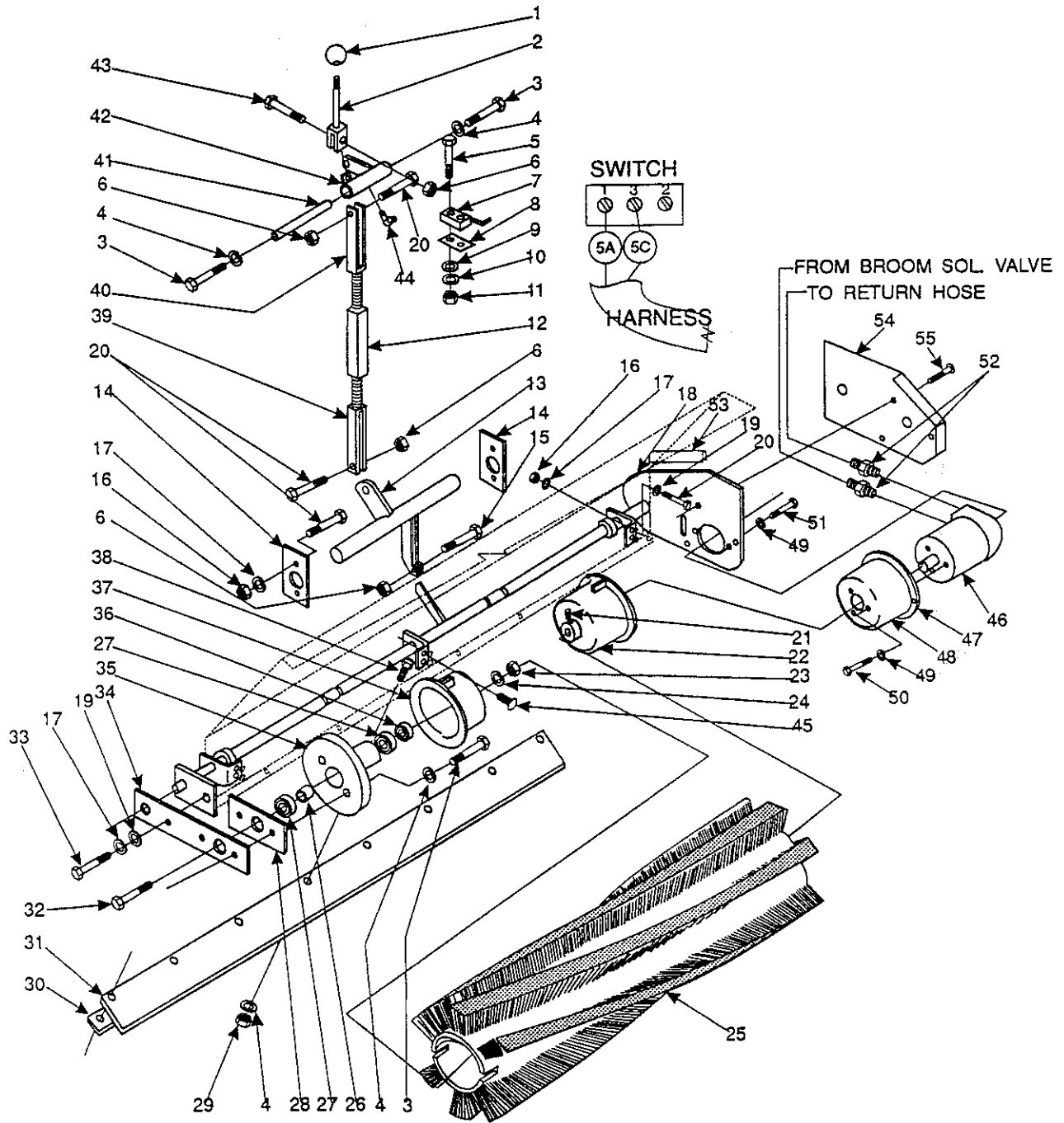
SCRUB DECK & LIFT ASSEMBLY



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-39-00003	CONTROL KNOB	1
2	7-41-05091	SCRUB DECK LEVER	1
3	7-42-05114	SCRUB DECK LINKAGE	1
4	2-00-00591	NUT, HEX JAM 1/2-20 X .750 X .312	5
5	7-66-00151	ROD	1
6	7-57-05031	PIVOT	1
7	2-10-01336	SPRING	1
8	8-66-00144	ROD END	1
9	2-00-00224	SCREW, 5/16-18 X .500 HHC	2
10	2-00-00605	NUT, HEX MS #10-24 X .375 X .125	2
11	2-00-00519	LOCKWASHER, HELICAL SPRING #10 MED	2
12	2-00-00518	LOCKWASHER, HELICAL SPRING 1/4 MED	2
13	7-82-00032	MECHANICAL SWITCH	1
14	2-00-03061	SCREW, #10-24 X .500 THM	2
15	2-00-00233	SCREW, 3/8-16 X 1.000 HHC	3
16	7-62-00032	PIVOT TUBE RETAINER	2
17	2-00-02310	LOCKWASHER, HELICAL SPRING 3/8 MED	5
18	2-00-02360	NUT, HEX 3/8-16 X .562 X .328	5
19	2-00-00402	FLAT WASHER, .750 X .390 X .093	2
20	2-00-03829	LOCKWASHER, 3/8 EXT/INT	1
21	8-79-00030	STATIC STRAP	1
22	7-55-08124	SELF LOCKING PIN	6
23	7-03-04117	SCRUB DECK ARM	2
24	7-55-08108	SELF LOCKING PIN	1
25	2-00-01254	SCREW, 1/2-13 X 1.500 HHC	6
26	2-00-02312	LOCKWASHER, 1/2 MED. H.S.	6
27	2-00-00596	NUT, 1/2-13 HEX	6
28	0782-100	HYDRAULIC MOTOR	3
29	7-33-09031	HUB, BRUSH DRIVE	3
30	2-00-00641	NUT, 1/4-20 HEX FIBER LOCK	3
31	7-41-00027	LATCH, BRUSH DRIVER	3
32	7-03-04123	ARM, BRUSH DRIVER	3
33	2-00-00221	SCREW, 1/4-20 X .750 HHC	5
34	2-00-04851	FLAT WASHER, 1.56 O.D. X .39 I.D. X .09	3
35	2-00-00225	SCREW, 5/16-18 X 1.50 HHC	3
36	2-00-00594	NUT, HEX 1/4-20 X .437 X .218	2
37	7-87-02150	SOLUTION FEED TUBE	1
38	2-00-02220	HOSE CLAMP, .812 - 1.500	1
39	2-00-05086	PLUG	1
40	7-19-02027	DISC, SCRUB BRUSH	3
41	7-27-07155	FRAME, SCRUB DECK	1
42	7-13-07114	CLAMP, SOLUTION FEED TUBE	2
43	--	SEE BRUSH OPTIONS	-
44	2-00-03031	SCREW, 3/8 - 16 X 1.500 FHS HC (BLACK OXIDE)	2

C-0179

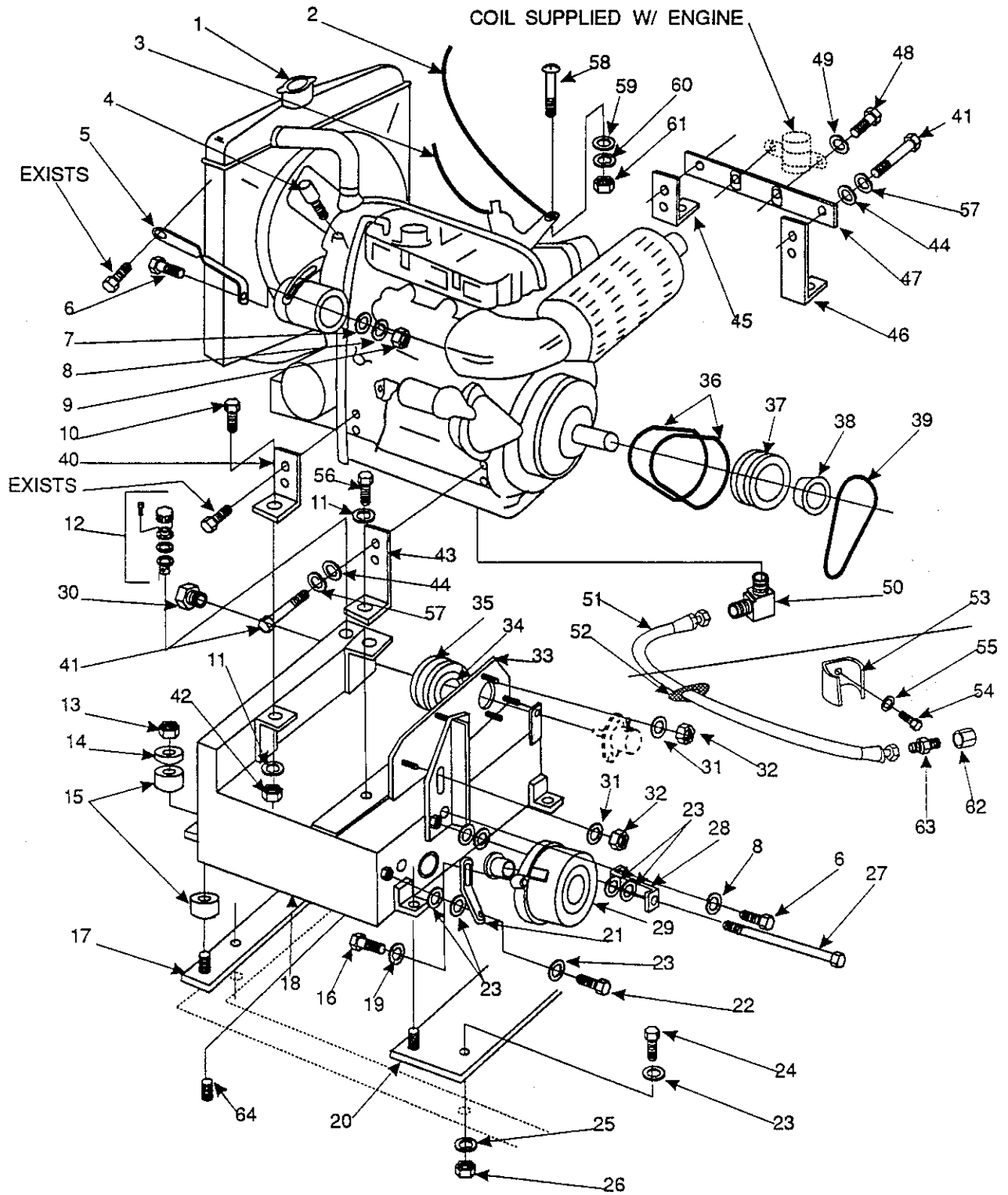
MAIN BROOM ASSEMBLY



C-0180

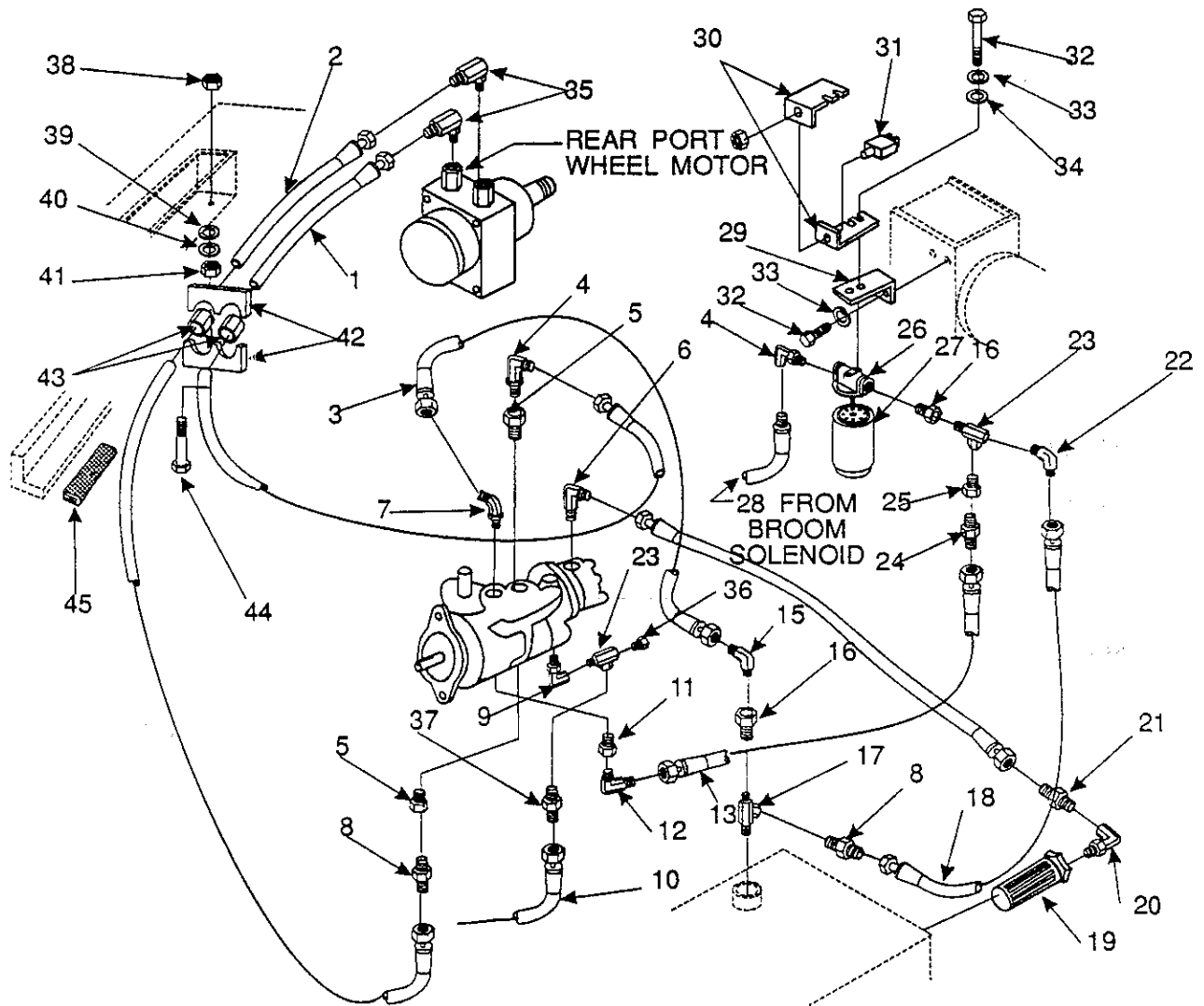
KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-39-00002	Control Knob	1
2	7-41-05089	Main Broom Control Lever	1
3	2-00-00221	Screw, 1/4-20 x .750 HHC	4
4	2-00-00518	Lock Washer, Helical Spring 1/4 Med	12
5	2-00-05060	Screw, #6-32 x 1.250 RHM	2
6	2-95-04182	Nut, Hex Fiber Insert 3/8-16	4
7	7-82-00023	Main Broom Control Switch	1
8	7-35-00013	Microswitch Insulation	1
9	2-00-00455	Flat Washer, .375 x .156 x .046	2
10	2-00-01499	Lock Washer, Helical Spring #6 Med	2
11	2-00-00624	Nut, Hex MS #6-32 x .312 x .109	2
12	7-42-05103	Main Broom Adjuster Linkage	1
13	7-57-05029	Main Broom Control Pivot	1
14	7-62-00032	Pivot Tube Retainer	2
15	2-00-00209	Screw, 3/8-16 x 1.250 HHC	1
16	2-00-02360	Nut, Hex 3/8-16 x .562 x .328	10
17	2-00-02310	Lock Washer, Helical Spring 3/8 Med	11
18	7-70-05148	Main Broom Pivot Shaft	1
19	2-00-00402	Flat Washer, .750 x .390 x .093	7
20	2-00-00233	Screw, 3/8-16 x 1.000 HHC	8
21	2-00-00263	Setscrew, 1/4-20 x .250 HS-KCP	1
22	8-33-09062	Main Broom Drive Hub	1
23	2-00-00596	Nut, Hex 1/2-13 x .750 x .437	1
24	2-00-02312	Lock Washer, Helical Spring 1/2 Med	1
25		Main Broom,	1
26	8-75-01147	Spacer, .875 x .625 x .641	1
27	2-00-03306	Double Seal Ball Bearing, 1.375 x .437 x .500	2
28	7-75-01112	Main Broom Idler Bracket	1
29	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	8
30	7-79-00062	Main Broom Chamber Backing Strap	1
31	7-25-08037	Main Broom Chamber Rear Flap	1
32	2-00-02616	Screw, 1/2-13 x 3.000 HHC	1
33	2-00-00232	Screw, 3/8-16 x .750 HHC	1
34	7-03-04109	Main Broom Lift Arm	1
35	8-30-05112	Thread Guard	1
36	2-00-03158	Spacer, .750 x .500 x .375	1
37	8-33-09059	Main Broom Drive Hub	1
38	2-00-00221	Screw, 1/4-20 x .750 HHC	8
39	7-42-05101	Main Broom Adjuster Linkage	1
40	7-42-05102	Main Broom Adjuster Linkage	1
41	8-70-05285	Side Broom Pivot Shaft	1
42	7-57-05030	Main Broom Control Pivot Bracket	1
43	2-00-00234	Screw, 3/8-16 x 1.500 HHC	1
44	2-00-02558	Lubrication Fitting, 45° 1/8 NPT	1
45	2-00-03855	Carriage Bolt, 3/8-16 x 1.000	4
46	0885-078	Hydraulic Motor, w/ 3/16 x .63 Key	1
47	8-30-05116	Thread Guard	1
48	8-33-05086	Main Broom Motor Housing	1
49	2-00-00518	Lock Washer, Helical Spring 1/4 Med	5
50	2-00-04750	Screw, 1/4-28 x .500 BHS	3
51	2-00-00221	Screw, 1/4-20 x .750 HHC	2
52	2-00-04991	Street Fitting, 9/16-18 SAE "O" x 3/4-16 JIC	2
53	7-21-04034	Edging	1
54	7-16-07305	Broom Drive Cover	1
55	2-00-02814	Screw, 1/4-20 x 1.75 FHM	3

ENGINE ASSEMBLY



Key	Part No.	Description	Qty
1	0777-032	KUBOTA Engine WG750 B-1	1
2	7-16-00017	Control Cable	1
3	7-16-00016	Cable, Choke Control	1
4	7-82-00031	Switch, Water Temperature	1
5	7-08-00666	Radiator Bracket	1
6	2-00-00221	Screw, 1/4-20 X .750 HHC	3
7	2-00-00407	Flat Washer .562 X .265 X .062	1
8	2-00-00518	Lock Washer, H.S. Med	3
9	2-00-00594	Nut, 1/4-20 Hex	1
10	2-00-00240	Screw, 1/2-13 X 1.250 HHC	2
11	2-00-02312	Lock Washer H.S. Med	2
12	7-11-00033	Filler Breather	1
13	2-00-00643	Nut, 3/8-16 Hex Fiber Lock	4
14	2-00-04851	Washer	4
15	8-75-01155	Isolation Mount	4
16	2-00-02708	Screw, 5/16-18 x 1.000	1
17	7-81-00163	Outboard Mounting Support	1
18	7-83-04123	Reservoir	1
19	2-00-00409	Flat Washer .687 X .343 X .062	3
20	7-81-00164	Inboard Mounting Support	1
21	7-08-00664	Alternator Adjustment Bracket	1
22	2-00-00232	Screw, 3/8-16 X .750 HHC	1
23	2-00-00402	Flat Washer .750 X .390 X .093	11
24	2-00-00209	Screw, 3/8-16 X 1.25 HHC	5
25	2-00-02310	Lock Washer, 3/8	4
26	2-00-02360	Nut, 3/8-16 Hex	5
27	2-00-00237	Screw, 3/8-16 X 3.000 HHC	1
28	7-08-00665	Alternator Bracket	1
29	7-03-03005	Alternator And Pulley	1
30	7-48-05027	Sight Gauge (Hydraulic Fluid)	1
31	2-00-00402	Flat Washer .750 x .390 x .093	3
32	2-00-00643	Nut, 3/8-16 Hex Fiber Lock	3
33	7-58-05231	Pump Mounting Plate	1
34	7-09-01127	Bushing, Taper Lock 7/8 Spline	1
35	7-60-00151	Sheave, 2 Groove, 3V, 6.50 OD	1
36	2-00-04073	Belt, 3V335	2
37	7-60-00152	Sheave, 3 Groove, 3V 3.65 OD	1
38	7-09-01128	Bush., Taper Lock, 1.13 Bore	1
39	2-00-02129	Belt, 3V250	1
40	7-81-00168	Left Hand Front Engine Support	1
41	2-00-04946	Screw, M10 x 1.25 HHC x .25	4
42	2-00-04936	Nut, Hex Fiber 1/2-13	2
43	7-81-00170	Left Hand Rear Engine Support	1
44	2-00-00456	Flat Washer, .812 x .406 x .062	4
45	7-81-00169	Right Hand Front Engine Support	1
46	7-81-00171	Right Hand Rear Engine Support	1
47	7-79-00070	Coil Mounting Strap	1
48	2-00-00224	Screw, 5/16-18 x .500 HHC	2
49	2-00-00530	Lock Washer, Helical Spring 5/16	3
50	2-00-04595	Elbow, 90° 9/16 - 18 JIC x 9/16 - 18 SAE "O" Ring	1
51	8-33-02046	Hose, 9/16 - 18 JIC ENDS x 1/4 ID x 30.000	1
52	2-00-04785	Grommet	1
53	8-13-07086	Clamp,	1
54	2-00-03059	Screw, #10 - 24 x .375 THM	1
55	2-00-00519	Lock Washer, #10 Helical Spring Med	1
56	2-00-00239	Screw, 1/2-13 x 1.000 HHC	2
57	2-00-02311	Lock Washer, Helical Spring 7/16 Med	4
58	2-00-05060	Screw, 6-32 x 1.250 RHM	1
59	2-00-00455	Flat Washer, #6	1
60	2-00-01499	Lock Washer, Helical Spring #6 Med	1
61	2-00-00624	Nut, Hex 6-32 MS	1
62	7-11-00011	Cap, 1/4 NPT	1
63	2-00-04499	Connector, 1/4 NPT x 9/16-18 JIC	1
64	2-00-02475	Pipe Plug, 3/4 NPT	1

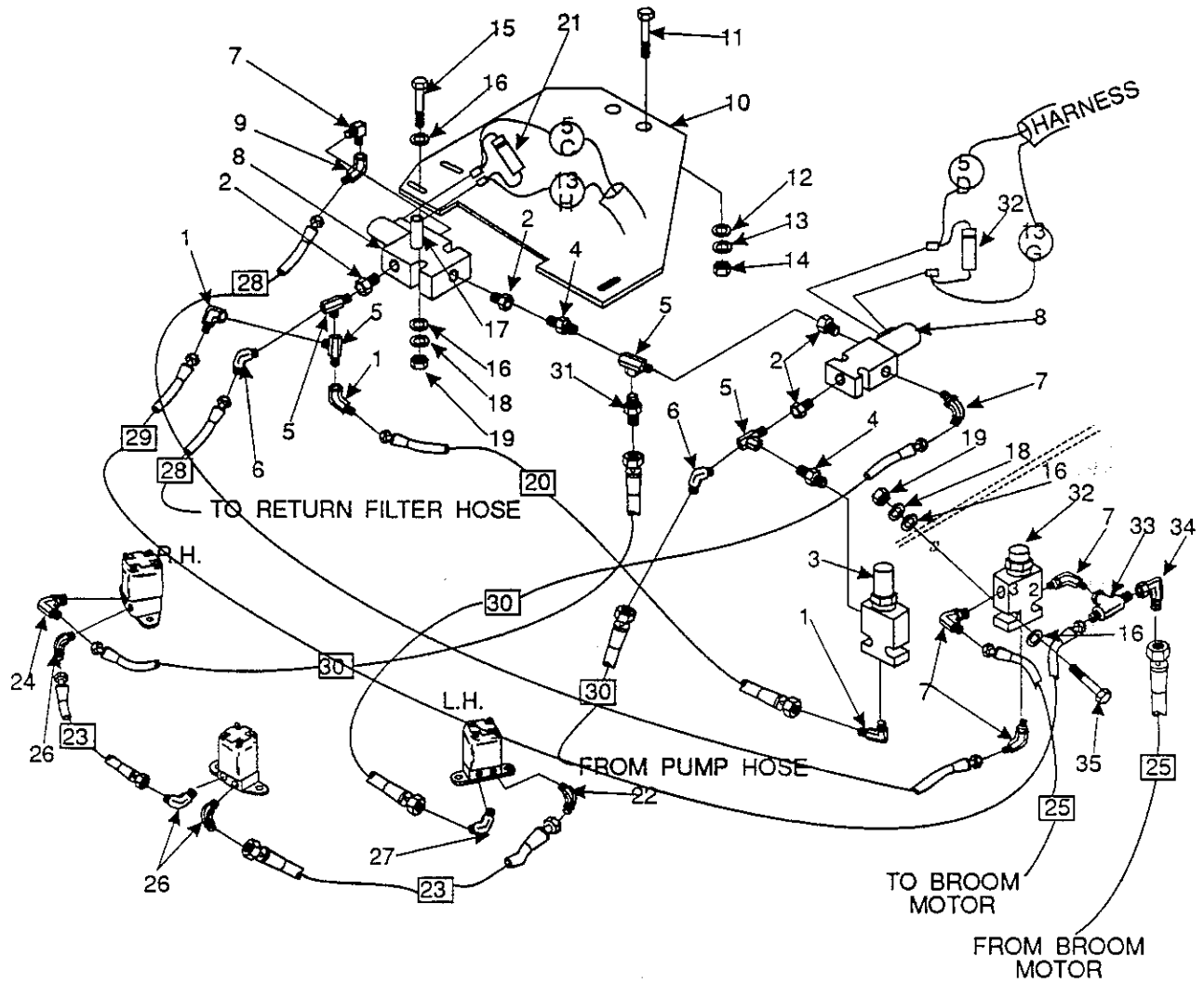
HYDRAULICS-PUMP & RESERVOIR



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-33-02141	Hose, Hydraulic JIC F Swivel 3/4-16 -.50ID x 83.0 L	1
2	7-33-02101	Hose, Hydraulic JIC F Swivel 3/4-16 -.50ID x 66.0 L	1
3	8-33-02070	Hose, Hydraulic JIC F Swivel 9/16-18 -.25 ID x 20.0 L	1
4	2-00-04215	Elbow, 90° JIC Male 3/4-14 / 3/4-16	2
5	2-00-04572	37° JIC F. Pipe Adapter, 1 1/2-12 / 3/4-14	2
6	2-00-04527	Elbow, 90° JIC Str. Thd. 1 1/16-12	1
7	2-00-04595	37° JIC Str.Thd. 90° Elbow,9/16-18	1
8	2-00-04362	37° JIC Male Connector, 3/4-14 / 3/4-16	1
9	2-00-04546	90° Elbow, 7/8-14 SAE "O" - 1/2 NPT (FM)	1
10	8-33-02096	Hose, Hydraulic JIC F Swivel 3/4-16 -.500 ID . 23.0 L	1
11	8-25-02013	Adapter, 3/4-16 x 3/8 NPT	1
12	2-00-04472	Elbow, 90° JIC Male 3/8-18 / 9/16-18	1
13	8-33-02046	Hose, Hydraulic JIC F Swivel 9/16-18 -.25 ID x 30.0 L	1
14	8-33-02059	Hose, Hydraulic JIC F Swivel 1 1/16-12 -.75ID x 28.0L	1
15	2-00-04500	Elbow, 90° JIC Male 1/2-14 / 9/16-18	1
16	2-00-04474	Reducer, Pipe Thread 3/4-14 to 1/2-12 M-F	2
17	2-00-04487	Street Tee, 3/4-14 M-F	1
18	8-33-02061	Hose, Hydraulic JIC F Swivel 3/4-16 -.500 ID x 46.0 L	1
19	8-24-04115	Strainer,	1
20	2-00-04469	Elbow, 90° Street 3/4-14 M-F	1
21	2-00-04238	Connector, JIC Male 3/4-18 / 1 1/16-12	1
22	2-00-04216	Elbow, 90° JIC Male 1/2-14 / 3/4-16	1
23	2-00-04482	Tee, Street 1/2-14 M-F	1
24	2-00-04499	Connector, JIC Male 1/4-18 / 9/16-18	1
25	2-00-04475	Pipe Thd Reducer, 1/2-14 - 1/4-18x1.09M-F	1
26	7-24-04013	Filter, Hydraulic Fluid Assembly	1
27	7-24-04014	Filter, Hydraulic Fluid Element	Ref
28	7-33-02257	Hose, 3/4-16 JIC Str. Ends - 52.0 L	1
29	8-08-00650	Bracket, Filter	1
30	7-08-00475	Bracket, Circuit Breaker	2
31	7-28-00001	Circuit Breaker, 35 AMP	1
32	2-00-00221	Screw, 1/4 - 20 x .750 HHC	4
33	2-00-00518	Washer, Lock Helical Spring 1/4 Med	4
34	2-00-00416	Washer, Flat .750 x .265 x .062	2
35	2-00-04447	Elbow, 90° JIC Male Swivel 3/4-16 to O-Ring	2
36	2-00-02474	Plug, Pipe 1/2 NPT	1
37	2-00-04528	Connector, JIC Male 1/2-14 / 3/4-16	1
38	2-00-00644	Nut, Hex Fiber Insert 5/16 - 18	1
39	7-23-03048	Washer, Spring .750 x .312 x .013	1
40	2-00-00409	Washer, Flat .687 x .343 x .062	1
41	2-00-00586	Nut, Hex Jam 5/16 - 18 x .50 x .187	1
42	7-13-07110	Clamp, Hose	1
43	7-09-01121	Bushing, Split Hose 1.437 x .813 x 1.312	2
44	2-00-01770	Screw, 9/16 - 18 x 2.750 HHC	1
45	7-21-04031	Edging	1

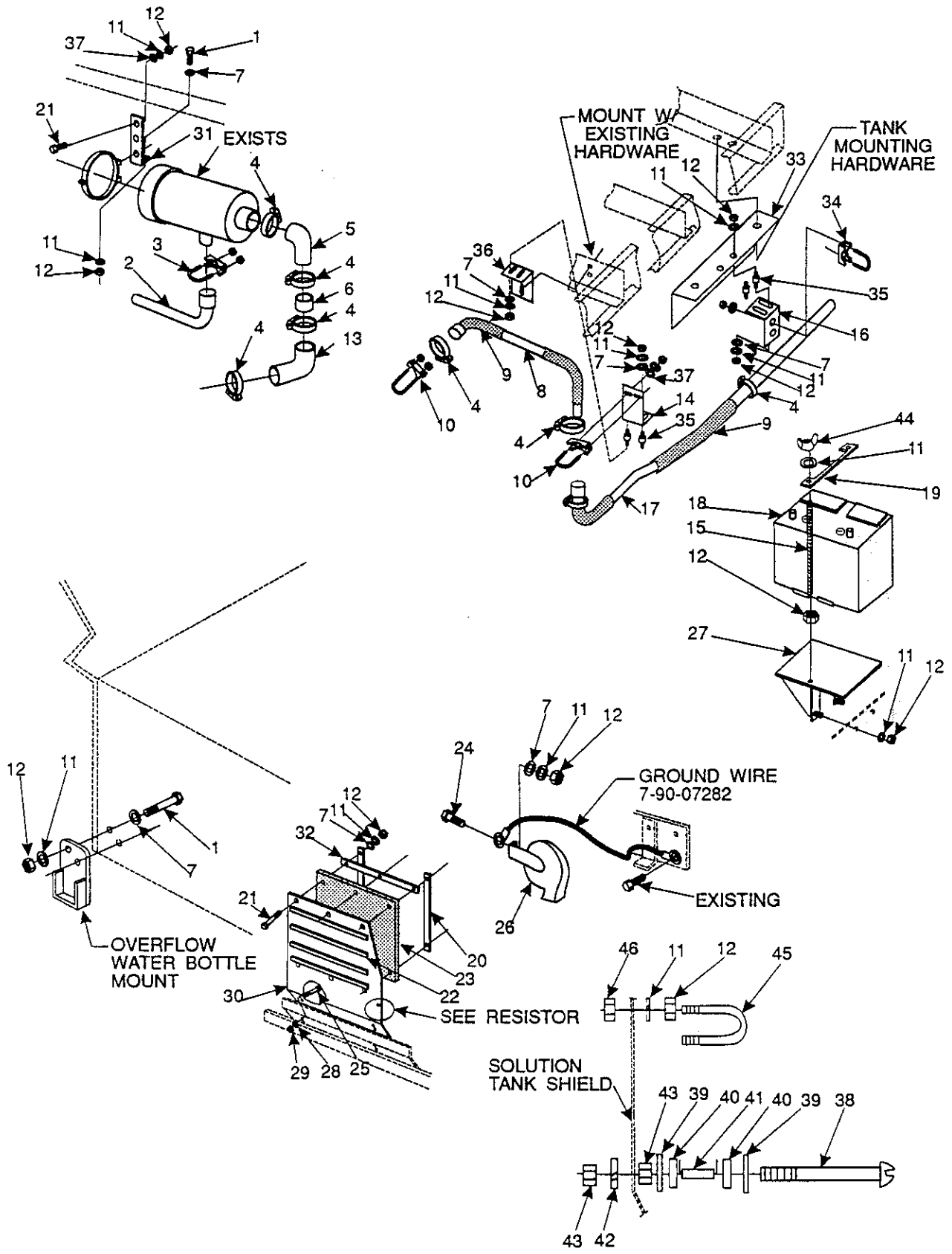
C-0181

HYDRAULICS-BRUSH & BROOM CONTROL



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-04547	Elbow, 90° JIC Male 3/8-18 / 3/4-16	3
2	8-25-02013	Adapter, 3/4-16 x 3/8 NPT	4
3	7-88-00049	Relief Valve	1
4	2-00-04641	Pipe Nipple, 3/8-18 x 1.53	2
5	2-00-04462	Tee, Street 3/8 NPT	4
6	2-00-05147	45° Elbow 3/8 NPT x 3/4-16 JIC	2
7	2-00-03981	Elbow, 90° JIC Str. Thd. 3/4-16 / 3/4-16	5
8	7-88-00045	Valve, 3 Way 2 Position 12V Solenoid	2
9	2-00-04969	37° JIC Flared Tube 45° Swil El, 3/4-16	1
10	7-52-05233	Valve Mounting Plate	1
11	2-00-02708	Screw, 5/16 - 18 x 1.000 HHM	2
12	2-00-01803	Flat Washer, 1.062 x .398 x .062	2
13	2-00-00530	Washer, Lock Helical Spring 5/16 Med	2
14	2-00-00585	Nut, Hex 5/16 - 18 x .500 x .265	2
15	2-00-04596	Screw, 1/4 - 20 x 3.500 HHC	3
16	2-00-00407	Washer, Flat .562 x .274 x .062	10
17	7-09-01046	Spacer, .500 x .375 x 1.250	3
18	2-00-00518	Washer, Lock Helical Spring 1/4 Med	5
19	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	5
20	7-33-02139	Hose, Hydraulic JIC F Swivel 3/4-16 -.500ID x 13.50L	1
21	0775-188	Diode Assembly	2
22	2-00-04989	Elbow, 45° ORFS 7/8-14 to 13/16-16	1
23	8-33-02202	Hose, 13/16-16 ORS- 90° to Str.End - 20.00L	2
24	2-00-04217	Elbow, 90° JIC Str. Thd. 7/8-14 / 3/4-16	1
25	8-33-02064	Hose, 3/4-16 JIC Swivel Ends - 33.00L	2
26	2-00-04921	Elbow, 90° ORFS 7/8-14 to 13/16-16	3
27	2-00-04218	Elbow, 45° JIC Str.Thd. 7/8-14 / 3/4-16	1
28	7-33-02257	Hose, 3/4-16 JIC Female Swivel- Str.Ends - 52.0L	2
29	8-33-02061	Hose, Hydraulic JIC F Swivel 3/4-16 -.50 ID x 46.00 L	1
30	8-33-02096	Hose, Hydraulic JIC F Swivel 3/4-16 -.50 ID x 23.00 L	3
31	2-00-04548	Connector, JIC Male 3/8-18 / 3/4-16	1
32	0791-009	Flow Divider Valve	1
33	2-00-04823	Swivel Tee, 3/4 - 16 JIC	1
34	2-00-04822	90° Swivel Elbow 3/4 - 16 JIC	1
35	2-00-02589	Screw, 1/4 - 20 x 2.000 HHC	2

ENGINE COMPONENTS ASSEMBLY

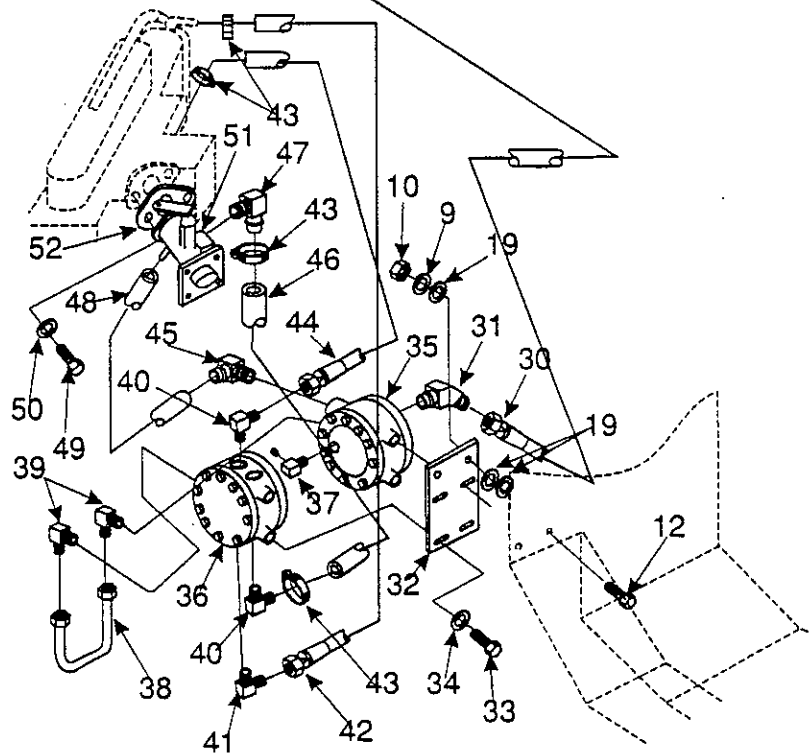
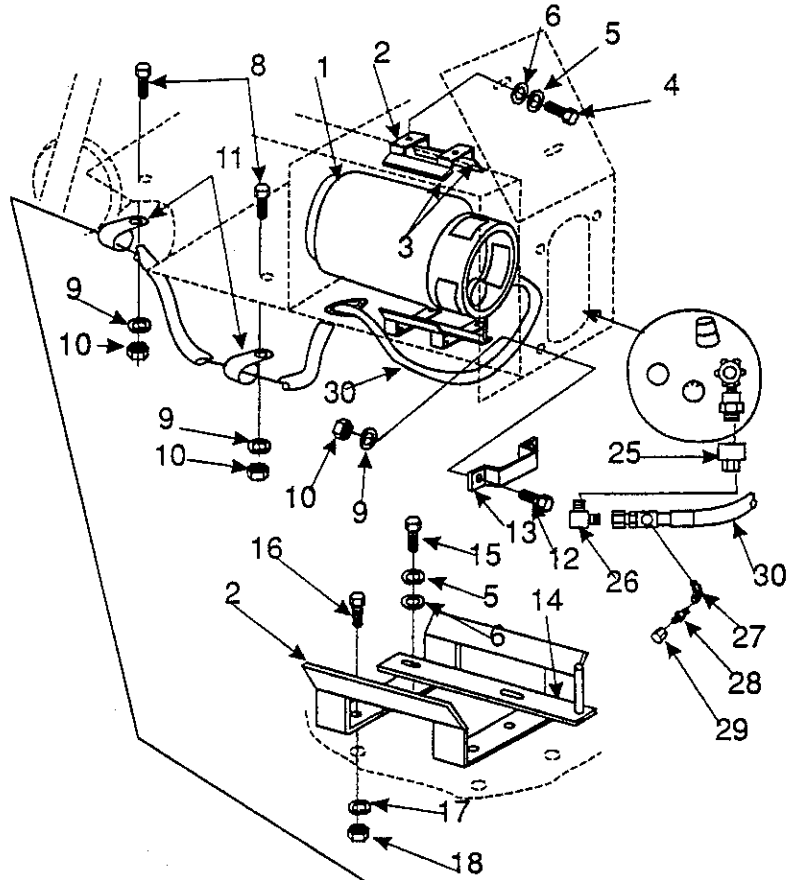


C-0173

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00205	Screw, 1/4-20 x 1.00 HHC	3
2	7-87-02170	Tube, Air Inlet	1
3	2-00-05149	Muffler Clamp, 1 3/4	1
4	2-00-03404	Hose Clamp, 1.062 to 2.000	8
5	7-33-02264	Hose, Upper Air Cleaner	1
6	7-87-02169	Connector, Air Cleaner Hoses	1
7	2-00-00407	Flat Washer, .562 x .265 x .06	21
8	7-56-05020	Upper Exhaust Pipe	1
9	7-34-09015	Insulating Sleeve	2
10	2-00-04040	Muffler Clamp, 1.500	2
11	2-00-00518	Lock Washer, 1/4 Med	28
12	2-00-00594	Nut, Hex 1/4-20	28
13	7-33-02265	Hose, Lower Air Cleaner Outlet	1
14	7-08-00681	Exhaust Bracket	1
15	7-66-00157	Rod, Battery Tie Down	2
16	7-31-07021	Hanger	1
17	7-56-05021	Lower Exhaust Pipe	1
18	0875-008	Battery	1
19	7-08-00728	Bracket, Battery Hold Down	1
20	7-79-00069	Side Insulation Mounting Strap	2
21	2-00-00183	Screw, 1/4-20 x .75 THM	7
22	7-29-00189	Spacer Gasket,	4
23	7-34-09022	Insulation	1
24	2-00-00051	Screw, 1/4-20 x .750 RHM	1
25	2-00-03564	Screw, 5/16-18 x 1.000	4
26	8-32-09013	Horn	1
27	7-83-04121	Battery Tray	1
28	2-00-00530	Lock Washer, Helical Spring 5/16 Med	4
29	2-00-00585	Nut, Hex 5/16-18	4
30	7-30-05073	Solution Tank Shield	1
31	7-08-00733	Bracket, Air Cleaner Support	1
32	7-79-00068	Insulation Mounting Strap	2
33	7-30-05076	Exhaust Pipe Guard	1
34	7-13-07076	Muffler Clamp, 1.38	1
35	8-50-05053	Spacer, SMB 006-0100-9	4
36	7-08-00630	Exhaust Pipe Bracket,	1
37	2-00-00409	Flat Washer, .685 x .34 x .06	3
38	2-00-05130	Screw, #6-32 x 3.000 RHM	1
39	2-00-00435	Flat Washer, #6	2
40	2-14-03137	Washer, Seat Valve Neoprene	2
41	0775-189	Resistor Assembly 3 OHMS	1
42	2-00-01499	Lock Washer, #6	1
43	2-00-00624	Nut, Hex #6-32	2
44	2-00-00672	Wing Nut, 1/4 - 20	2
45	8-13-07003	Clamp	1
46	2-00-00641	Nut, 1/4-20 Fiber Lock	2
C-0173			

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-11-00028	Fuel Cap and Gauge	1
2	2-00-03940	Screw, #10 - 24 x .500 T/C HH	5
3	8-16-07311	Cover	1
4	2-00-02476	Pipe Plug, 1/8 NPT	1
5	8-18-00310	Decal, Gasoline Fuel	1
6	8-18-00277	Decal, Warning (Gasoline)	1
7	8-33-04026	Fuel Tank	1
8	8-08-00496	Fuel Tank Bracket	2
9	2-00-04518	Hose Fitting Barbed, Rigid Male Pipe 1/8 NPT	1
10	2-00-04850	Clamp, Hose .490	6
11	8-51-05010	Catch Basin	1
12	8-81-00133	Support	2
13	2-00-01769	Screw, 1/4 - 20 x 1.750 HHC	4
14	2-00-00518	Lock Washer, Helical Spring 1/4 Med	6
15	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	6
16	2-00-05050	Clamp, Hose	1
17	7-33-02261	Fuel Line Hose, Tank to Filter	1
18	7-33-02262	Fuel Line Hose, Filter to Pump	1
19	2-00-04602	Clamp, Hose .500	2
20	7-33-02263	Fuel Line Hose, Pump to Carburetor	1
21	2-00-05148	Screw, 5M x .75 - 16mm	2
22	2-00-00183	Screw, 1/4 - 20 x .750 THM	2
23	8-29-00131	Cover Gasket,	1
24	2-00-00416	Flat Washer, .750 x .265 x .062	2

LP ASSEMBLY

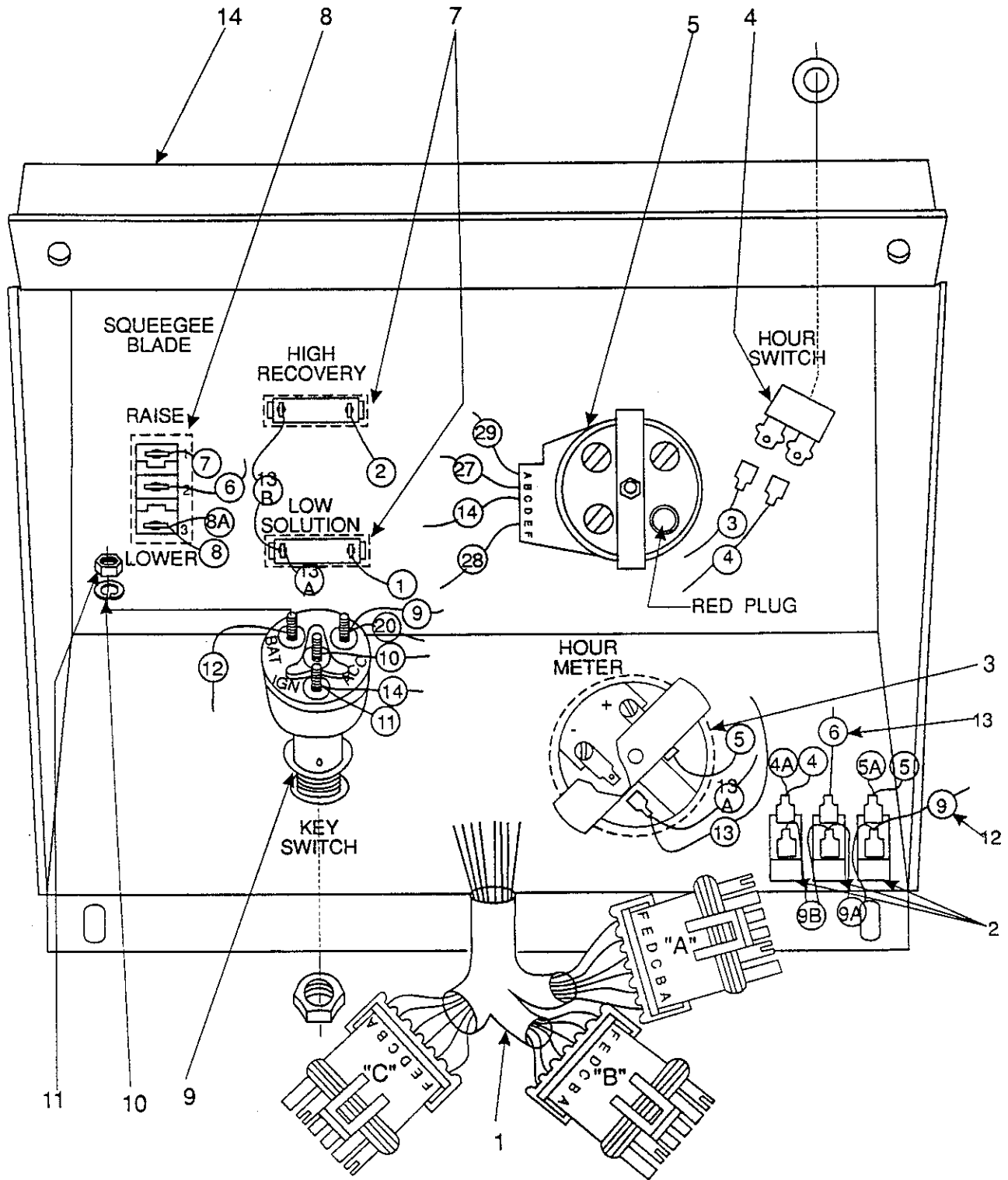


C-0197

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-83-04135	Tank LPG 20 LB. Liquid Withdrawl	1
2	7-15-01038	Tank Cradle Bracket	2
3	7-50-05143	Tank Cradle Pad	2
4	2-00-00221	Screw, 1/4-20 x .750 HHC	2
5	2-00-00518	Lock Washer, Helical Spring 1/4	4
6	2-00-00407	Flat Washer, 1/4	4
7	7-21-04035	Edging,	1
8	2-00-03564	Screw, 5/16-18 x 1.000 HHC	2
9	2-00-00530	Lock Washer, 5/16 Helical Spring	8
10	2-00-00585	Nut Hex, 5/16-18	8
11	2-00-04564	Clamp, 13/16 Closed	2
12	2-00-00207	Screw, 5/16-18 x 1.250	6
13	7-30-05077	LP Tank Guard	2
14	7-43-05005	Tank Locator Pin	1
15	2-00-00219	Screw, 1/4-20 x .500 HHC	6
16	2-00-00233	Screw, 3/8-16 x 1.000 HHC	4
17	2-00-02310	Lock Washer, Helical Spring 3/8	4
18	2-00-02360	Nut, Hex 3/8-16	4
19	2-00-00409	Flat Washer, .687 x .343 x .021	6
20	0702-091	LPG Kit	1
25		Quick Disconnect Fitting	1
26		Fitting, 90° Elbow 1/4 NPT x 3/8 SAE	1
27		Fitting, 45° Elbow 1/4 NPT Street	1
28		Relief Valve	1
29		Relief Valve Cover Cap	1
30		Hose, Fuel Line 5/16 x 53	1
31		Fitting, 45° Elbow 1/4 NPT x 3/8 SAE	1
32		Bracket,	1
33		Screw, 1/4-20 x .625 SEMS	4
34		Flat Washer,	4
35		Fuel-Lock Filter	1
36		Vaporizer Regulator	1
37		Fitting, 90° Elbow 1/8 NPT Street	1
38		Line, Fuel Crossover	1
39		Fitting, 90° Elbow 1/4 NPT x 1/4 Tube	2
40		Fitting, 90° Elbow 1/2 NPT x 5/8 Hose	1
41		Fitting, 90° Elbow 3/8 NPT x 3/8 SAE	2
42		Hose, Water 5/8 x 24	1
43		Hose Clamp	4
44		Hose, Water 5/8 x 17	1
45		Fitting, 90° Elbow 1/8 NPT x 7/32 Hose	1
46		Hose, Vapor 5/8 x 17	1
47		Fitting, 90° Elbow 3/8 NPT x 5/8 Hose	1
48		Hose, Vacuum 1/4 x 8	1
49		Screw, M8 x 20 MM	2
50		Lock Washer,	2
51		Carburetor,	1
52		Gasket, Carburetor 50MM	1

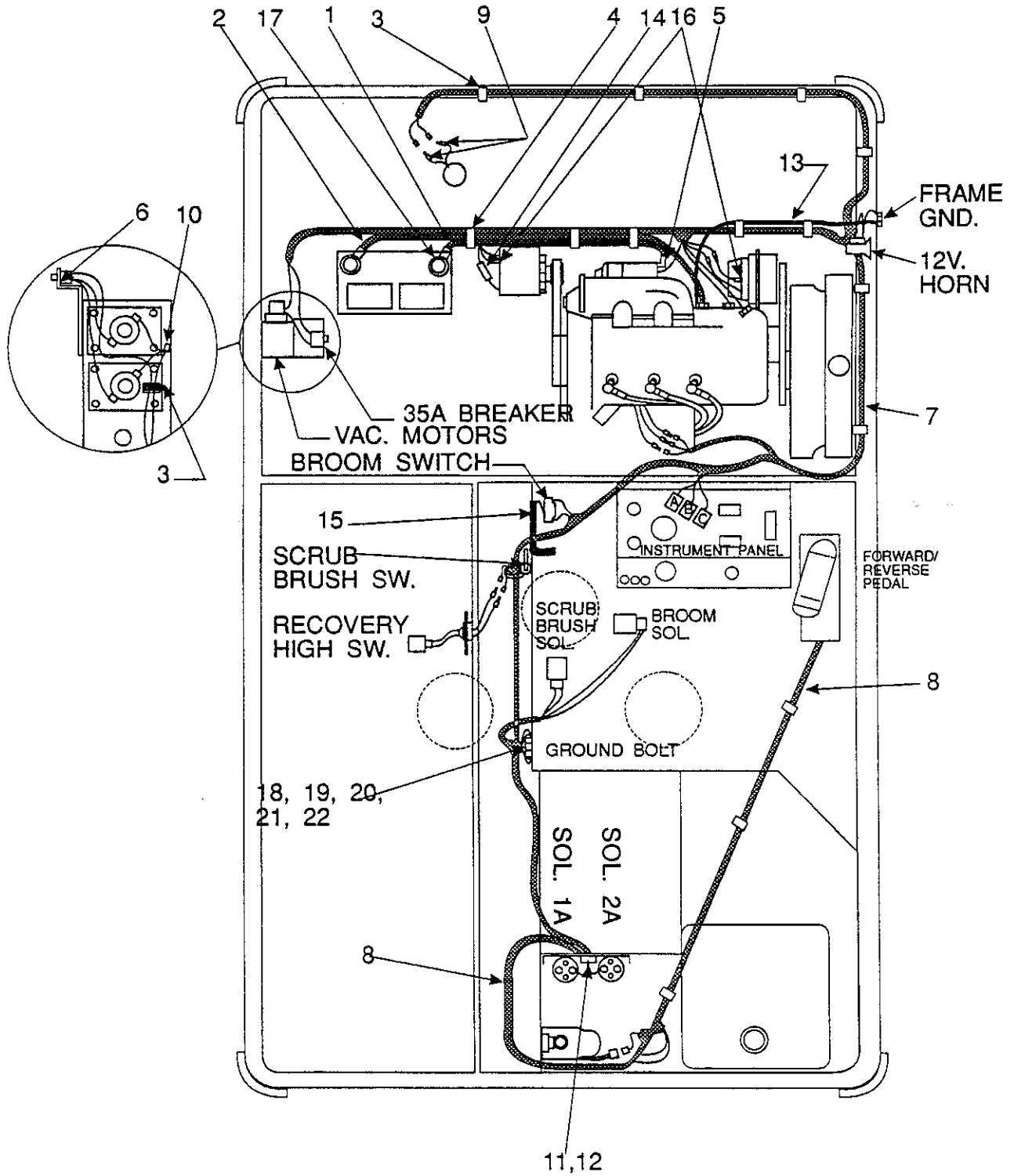
C-0197

INSTRUMENT PANEL



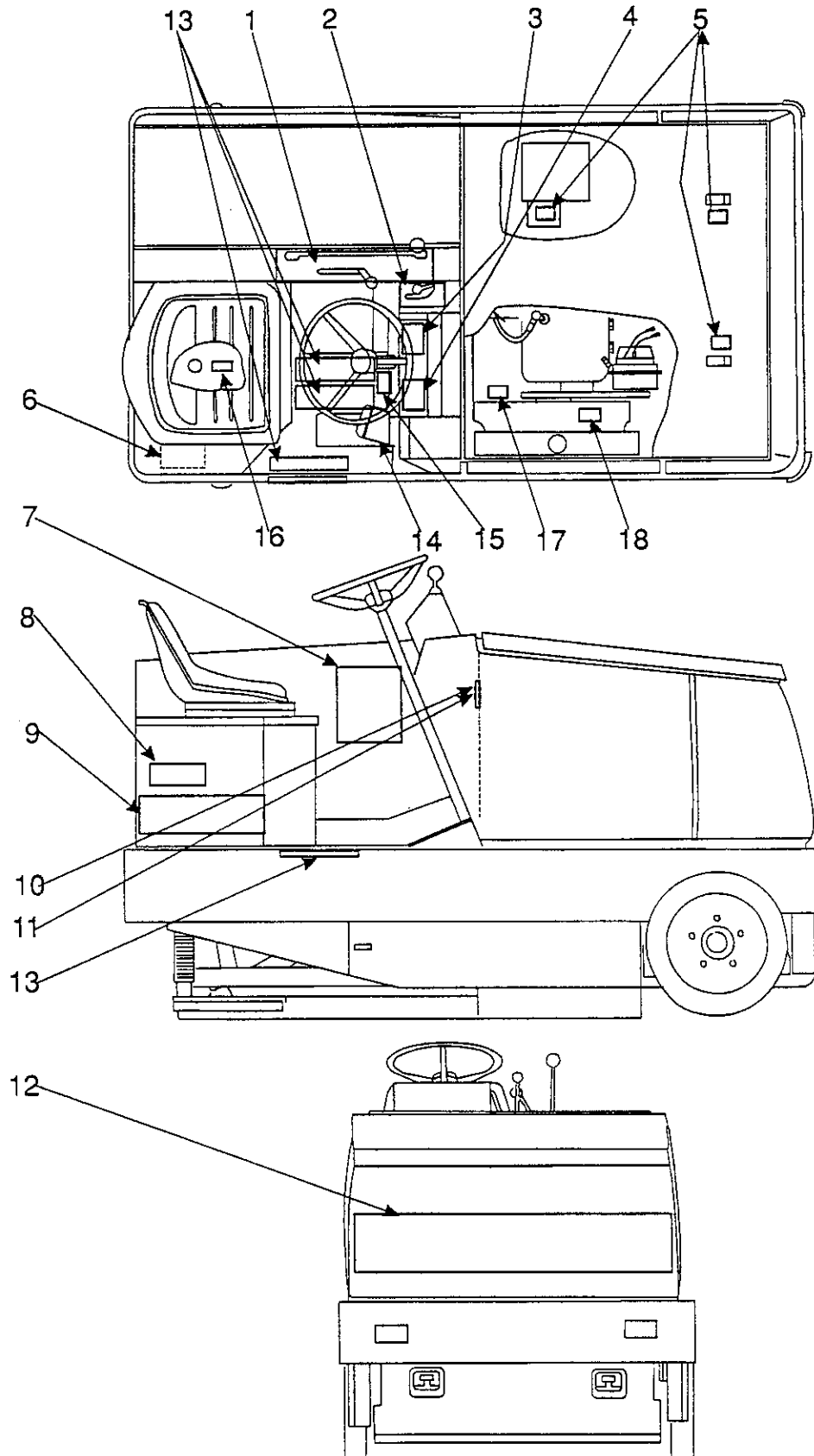
KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	0795-094	Instrument Panel Harness	1
2	8-64-00007	Circuit Breaker, 10 AMP	3
3	8-48-05023	Hour Meter	1
4	8-82-00028	Horn Switch	1
5	7-48-05026	Cluster Gauge	1
6			
7	7-40-05028	Light	2
8	7-82-00020	Switch, (ON - ON)	1
9	8-82-00041	Key Switch	1
10	2-00-00519	Lock Washer, #10	4
11	2-00-04694	Nut, Hex #10-32	4
12	7-90-07285	Wire, K-SW(A) to CB-1, 2 & 3	1
13	7-90-07284	Wire, Squeegee SW#2 to CB-2	1
14	7-33-05103	Instrument Panel Housing	1

WIRING PARTS LIST



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-90-07280	Wire, (+) Battery Cable	1
2	7-90-07281	Wire, (-) Battery Cable	1
3	7-13-07096	Adjustable Clamp	10
4	2-00-04345	Wire Tye	15
5	2-00-04952	Red Boot,	1
6	2-00-04281	Terminal, Ring #10	2
7	0795-095	Harness, Section #1	1
8	0795-089	Harness, Section #2	1
9	2-00-04551	Terminal, Male Bullet	2
10	2-00-04588	Wire Nut,	1
11	7-90-07283	Wire, Sol. 1A & 2a to CB-4	1
12	0775-159	Diode Assembly	2
13	7-90-07282	Ground Wire, Engine to Frame	1
14	0775-189	Resistor Assembly	1
15	7-21-04034	Edging	1
16	2-00-04203	Terminal Boot	2
17	2-00-04193	Battery Terminal Boot	1
18	2-00-03216	Screw, 1/4 - 20 x 1.000 THM	1
19	2-00-00501	Int. Tooth Lock Washer	1
20	2-00-00407	Flat Washer	1
21	2-00-00518	Lock Washer, Helical Spring 1/4 Med	1
22	2-00-00594	Nut, Hex 1/4 - 20	1

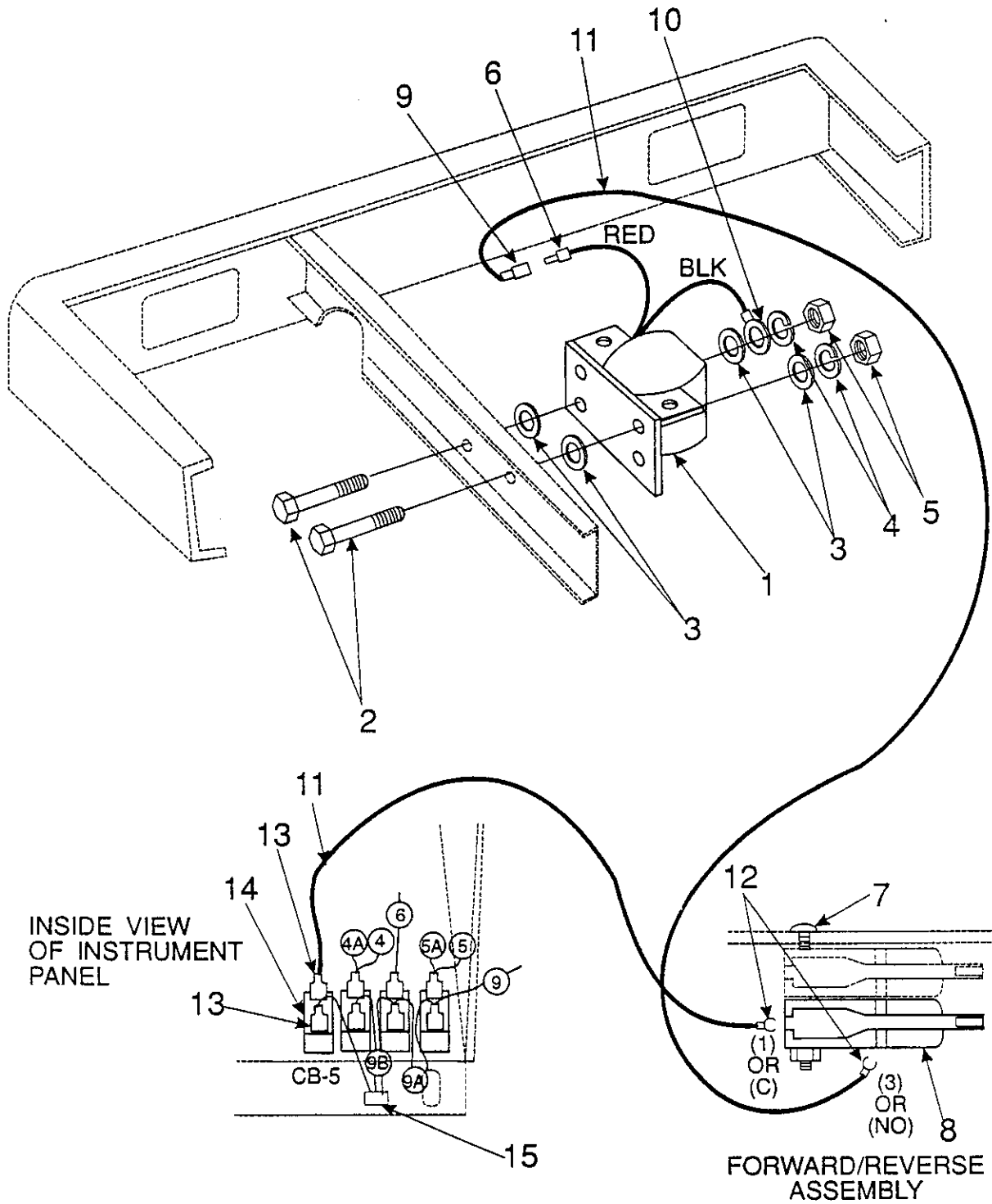
DECALS



C-0251

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-18-00139	Decal, Scrub Deck and Solution Feed	1
2	7-18-00138	Decal, Broom	1
3	7-18-00141	Decal, Horn, Light	1
4	7-18-00140	Decal, Squeegee	1
5	8-18-00307	Decal, Warning Fan & Belt	3
6	8-18-00277	Decal, Fuel Warning	1
7	8-18-00272	Decal, General	1
8	7-18-00137	Decal, 6200	1
9	8-18-00225	Decal, 6" Bulk Tape - 12" Length	-
10		Nameplate	1
11	2-00-04115	Rivet, Blind 1/8 x 1/8	2
12	7-18-00131	Decal, Clarke/American-Lincoln (Service Only)	1
13	8-50-05022	Pad, Foot	4
14	8-50-05055	Pad, Forward/Reverse Pedal	1
15	8-50-05050	Pad, Brake Pedal	1
16	8-18-00310	Decal, Gasoline Only	1
17	8-18-00306	Decal, Hydraulic Fluid Only	1
18	8-18-00074	Decal, Fan Warning	1
NS	0880-405	Grey Touch Up Paint	1

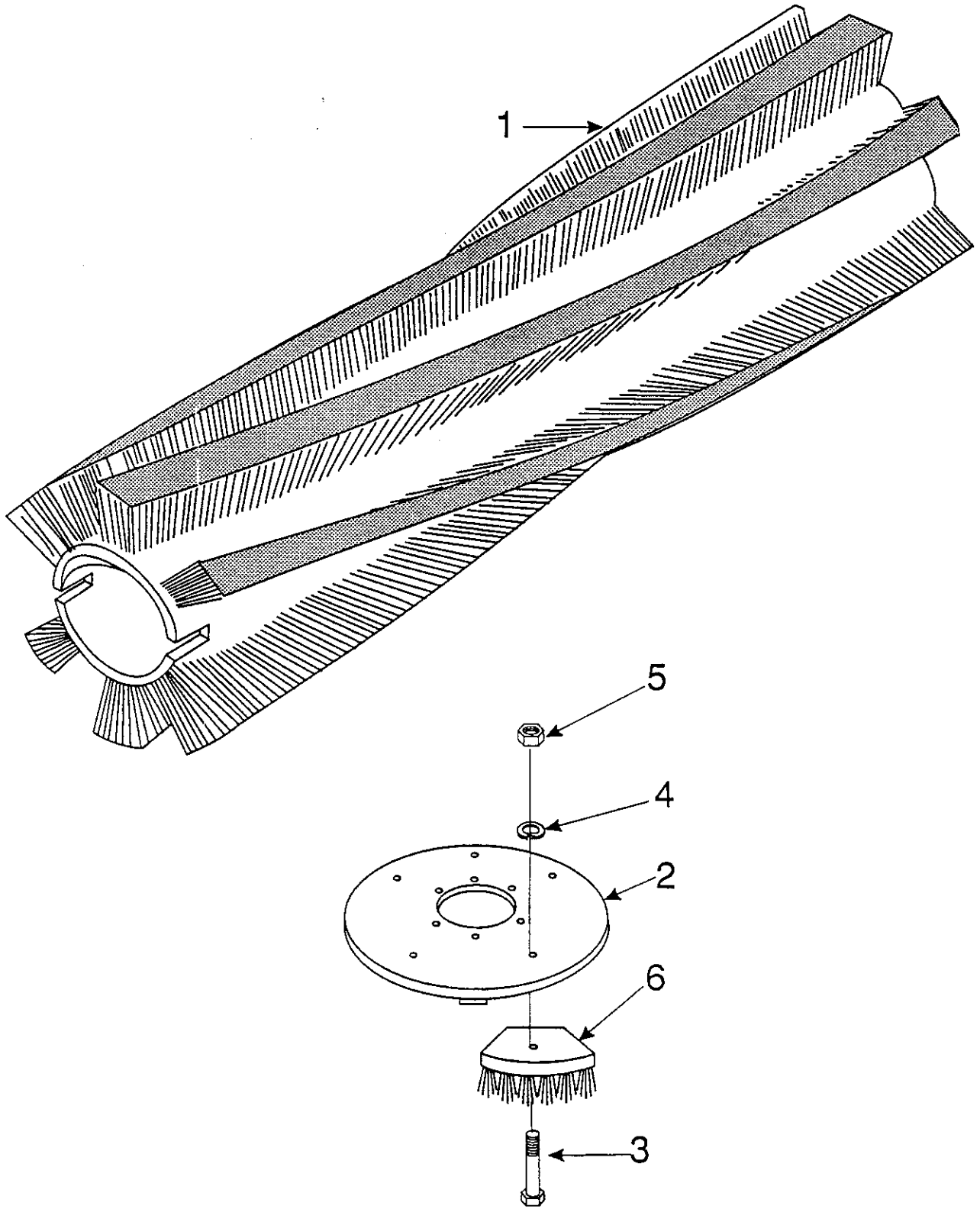
BACK-UP ALARM OPTION



KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-32-09009	Back-Up Alarm	1
2	2-00-00221	Screw, 1/4-20 x .750 HHC	2
3	2-00-03702	Flat Washer, .625 x .281 x .062	4
4	2-00-00518	Lock Washer, Helical Spring 1/4 Med	2
5	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	2
6	2-00-04578	Terminal, Bullet Male 18-14 .152	1
7	2-00-05063	Screw, #6-32 x 2.000 RHM	2
8	7-82-00024	Microswitch	1
9	2-00-04626	Terminal, Female Bullet	1
10	2-00-04282	Terminal, Ring	1
11	3-61-00193	Wire, 16 AWG Red	12'
12	2-00-04808	Terminal, #8 SS	2
13	2-00-03418	Terminal, 1/4 FISO	2
14	8-64-00007	Circuit Breaker, 10 AMP	1
15	2-00-04479	Connector, 3 way	1
NS	2-00-04345	Tye-Raps	10

0780-224 Back-Up Alarm Option (Includes all of the above)

BROOM AND BRUSH OPTIONS



C-0254

KEY NO.	PART NUMBER	DESCRIPTION	QTY
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Main Broom Option

1	7-08-03209	Proex and Wire Main Broom	1
1	7-08-03210	Proex Main Broom	1
1	7-08-03211	Nylon Main Broom	1

Brush Options

2	7-19-02027	Disk Scrub Brush (3 Required)	1
3	2-00-02706	Screw, 1/4 - 20 x 1.000 HHC	5
4	2-00-00518	Lock Washer, Helical Spring 1/4 Med	5
5	2-00-00594	Nut, Hex 1/4 - 20 x .437 x .218	5

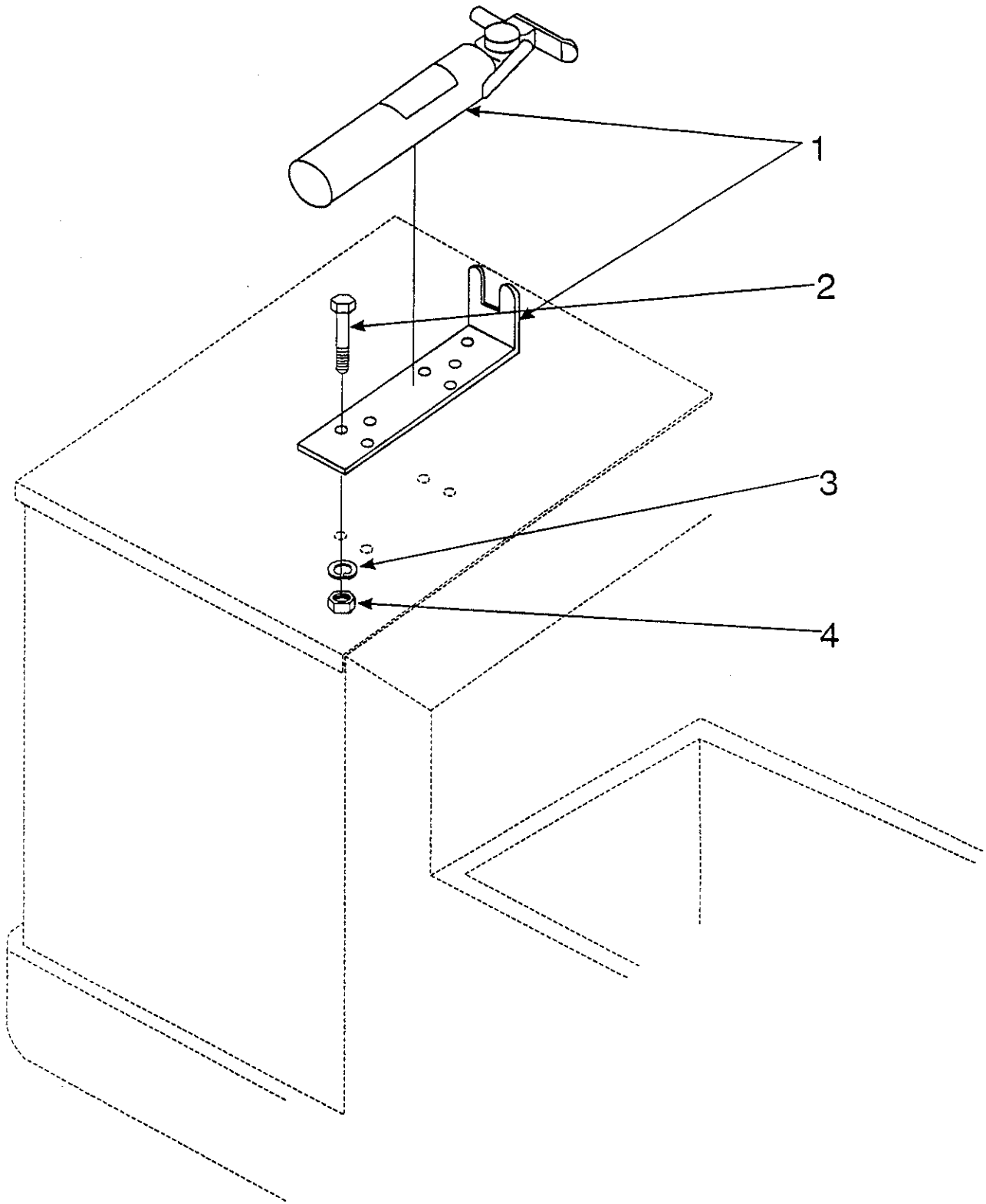
Wood Back

6	7-08-03070	Bassine	15
6	7-08-03144	Amergrit	15
6	7-08-03207	Super Grit	15

Plastic Back

6	7-08-03192	Bassine	15
6	7-08-03193	Straight Wire	15
6	7-08-03194	Nylon (Black)	15
6	7-08-03195	Amerfil (.025)	15
6	7-08-03196	Amerfil (.040)	15
6	7-08-03197	Amergrit	15

FIRE EXTINGUISHER OPTION

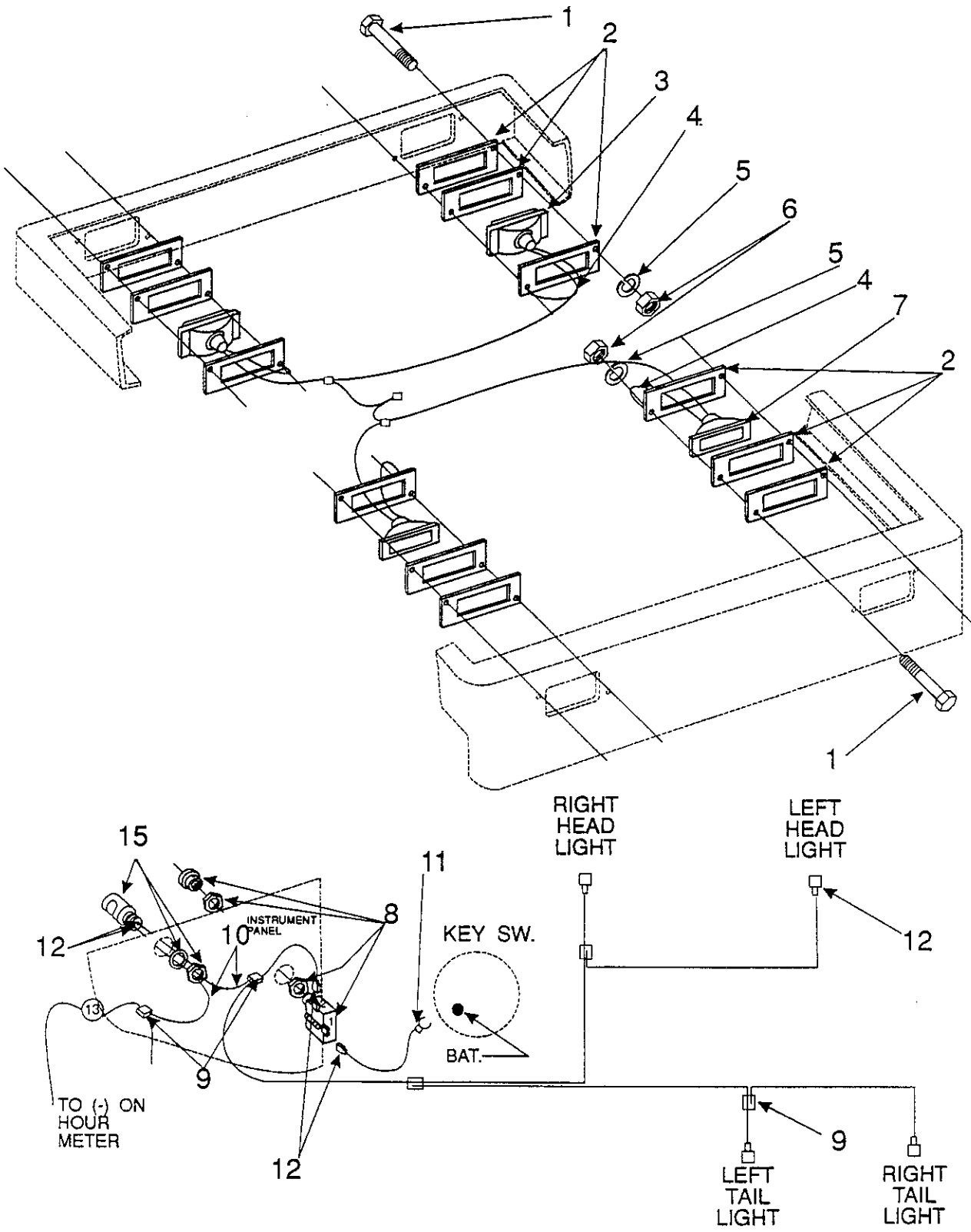


P-5021

KEY NO.	PART NUMBER	DESCRIPTION	QTY
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, Helical Spring 1/4 Med	4
4	2-00-03546	Nut, Hex MS 1/4-20 x .437 x .187	4

0780-090 Fire Extinguisher Option. (Includes all of the above)

HEAD, TAIL AND INSTRUMENT LIGHTS

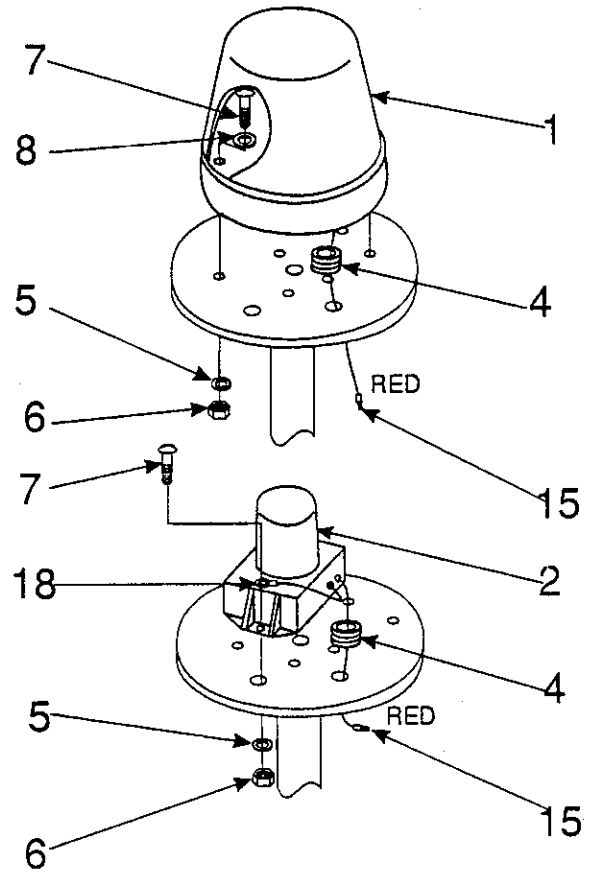
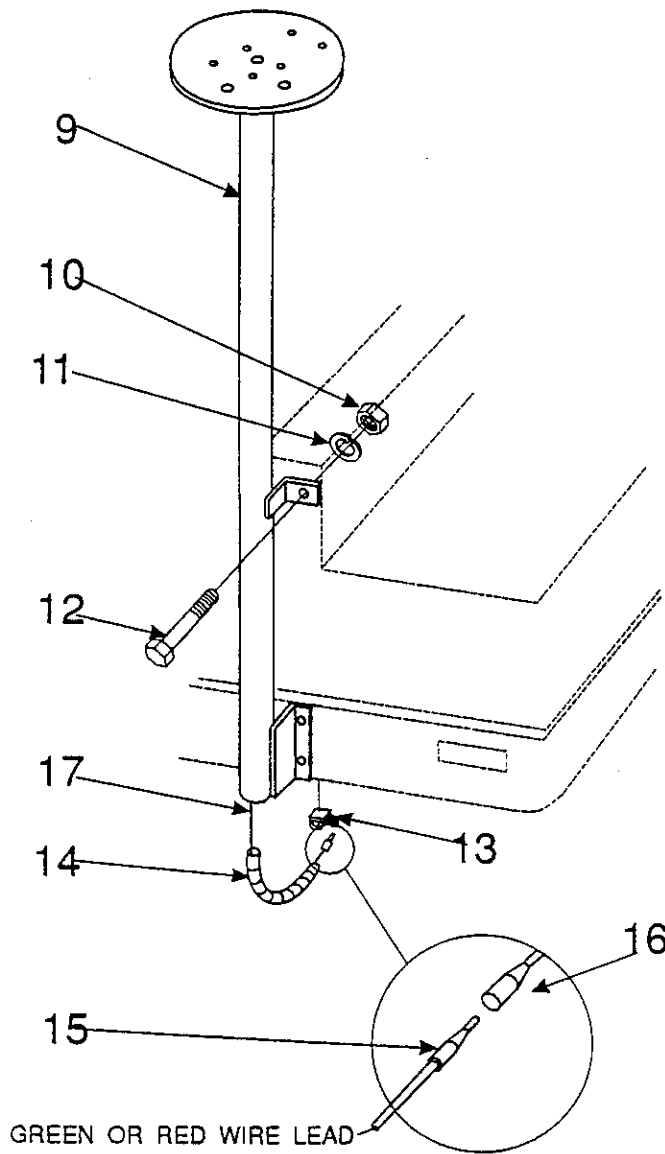


KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00203	Screw, 1/4-20 x 1.500 HHC	8
2	7-08-00557	Light Bracket	12
3	7-40-05035	Tail Light	2
4	8-90-07358	Ground Wire	4
5	2-00-00518	Lock Washer, Helical Spring 1/4 Med	8
6	2-00-00594	Nut, Hex 1/4-20 x .437 x .218	8
7	7-40-05034	Head Light	2
8	8-82-00027	Switch, PUSH-PULL (Light)	1
9	2-00-04479	Connector, 3-Way	5
10	3-61-00189	Wire, Black 16 AWG	12'
11	2-00-04719	Terminal, #10 SS	1
12	2-00-03418	Terminal, 1/4 FISO	8
13	2-00-04345	Tye-Raps	10
14			
15	8-40-05014	Light Socket with 12V Bulb	1

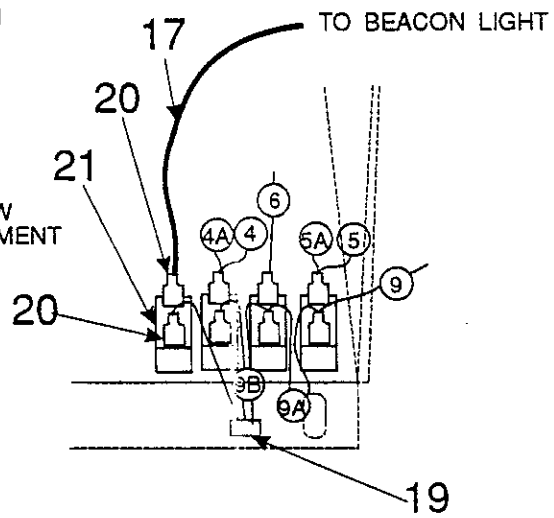
0780-243 Head & Tail Lights (Keys 1 to 13)

0780-242 Head, Tail & Instrument Lights (Keys 1 to 15)

WARNING LIGHT OPTION - STANDARD



INSIDE VIEW
OF INSTRUMENT
PANEL



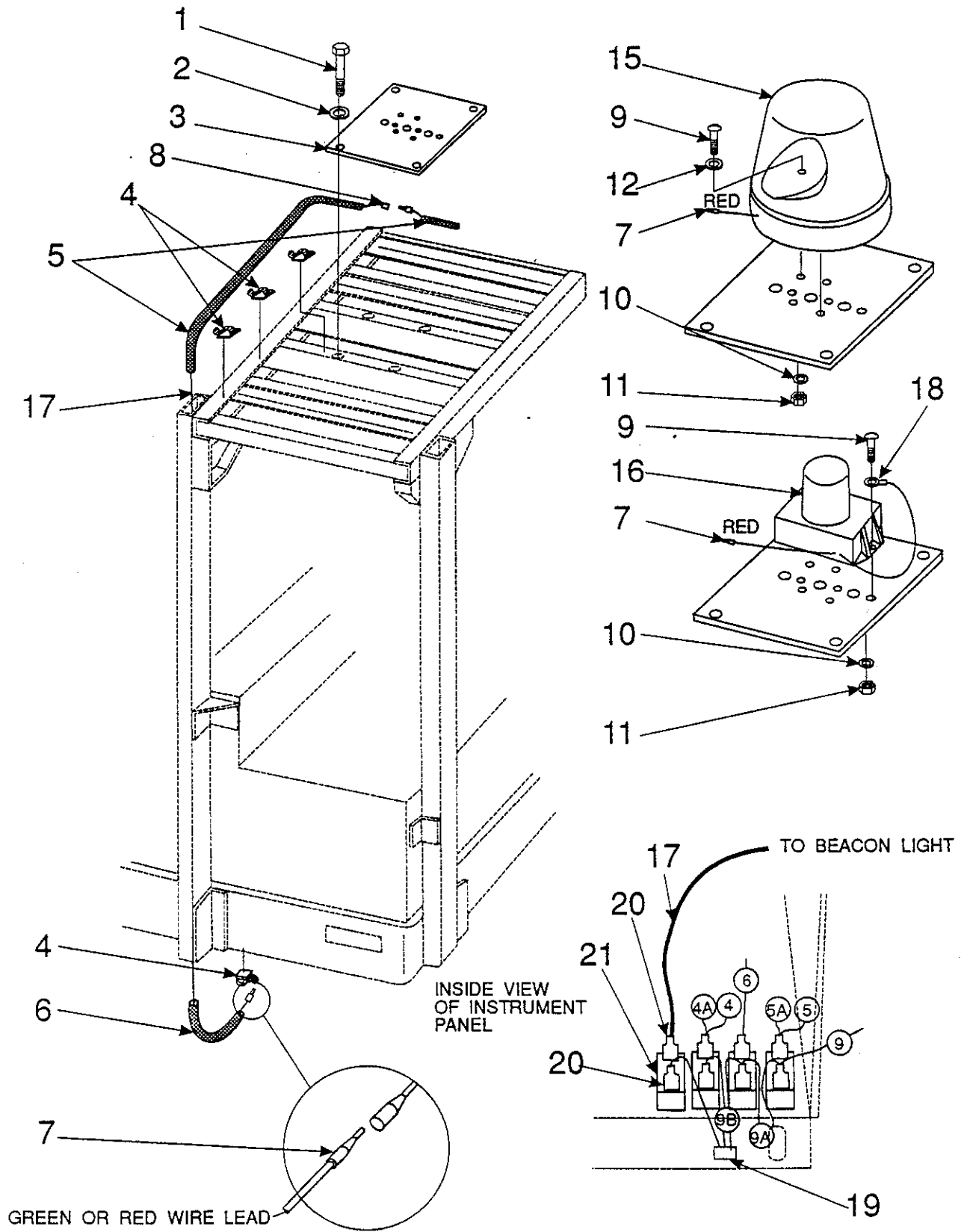
0780-245 RED FLASHING LIGHT / 0780-246 AMBER FLASHING LIGHT

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	8-40-05033	Red Flashing Light	1
1	8-40-05041	Amber Flashing Light	1
4	2-00-00491	Grommet, .750 x .375 x .125	1
5	2-00-00512	Lock Washer, #10 Int.	2
6	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	2
7	2-00-03063	Screw, #10-24 x .750 THM	2
8	2-00-00406	Flat Washer, .750 x .281 x .062	2
9	7-81-00147	Light Support	1
10	2-00-00596	Nut, Hex 1/2-13 x .750 x .437	3
11	2-00-02312	Lock Washer, Helical Spring 1/2 Med	3
12	2-00-00540	Retaining Ring, Ext. .750	3
13	7-13-07096	Plastic Tab Tie	1
14	3-61-02014	Convuluted Tube, Cut to 9.000"	-
15	2-00-04578	Terminal, Bullet Male 18-14 .152	2
16	2-00-04626	Terminal, Bullet Female 18-14 .152	2
17	3-61-00193	(Red) Wire, 16 ga.- Cut to suit	10'
18			
19	2-00-04479	Connector, 3-Way	1
20	2-00-03418	Terminal, 1/4 FISO	2
21	8-64-00007	Circuit Breaker, 10 AMP	1
22			
NS	2-00-04345	Ty-Rap	10

0780-248 RED STROBE LIGHT / 0780-249 AMBER STROBE LIGHT

KEY NO.	PART NUMBER	DESCRIPTION	QTY
2	8-40-05020	Red Strobe Light	1
2	8-40-05036	Amber Strobe Light	1
4	2-00-00491	Grommet, .750 x .375 x .125	1
5	2-00-00512	Lock Washer, #10 Int.	2
6	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	2
7	2-00-03063	Screw, #10-24 x .750 THM	2
8	2-00-00406	Flat Washer, .750 x .281 x .062	2
9	7-81-00147	Light Support	1
10	2-00-00596	Nut, Hex 1/2-13 x .750 x .437	3
11	2-00-02312	Lock Washer, Helical Spring 1/2 Med	3
12	2-00-00540	Retaining Ring, Ext. .750	3
13	7-13-07096	Plastic Tab Tie	1
14	3-61-02014	Convuluted Tube, Cut to 9.000"	-
15	2-00-04578	Terminal, Bullet Male 18-14 .152	2
16	2-00-04626	Terminal, Bullet Female 18-14 .152	2
17	3-61-00193	(Red) Wire, 16 ga.- Cut to suit	10'
18	2-00-00838	Terminal, #10 Ring	1
19	2-00-04479	Connector, 3-Way	1
20	2-00-03418	Terminal, 1/4 FISO	2
21	8-64-00007	Circuit Breaker, 10 AMP	1
22			
23	2-00-04345	Ty-Rap	10

WARNING LIGHT OPTION - OVERHEAD GUARD



C-0257

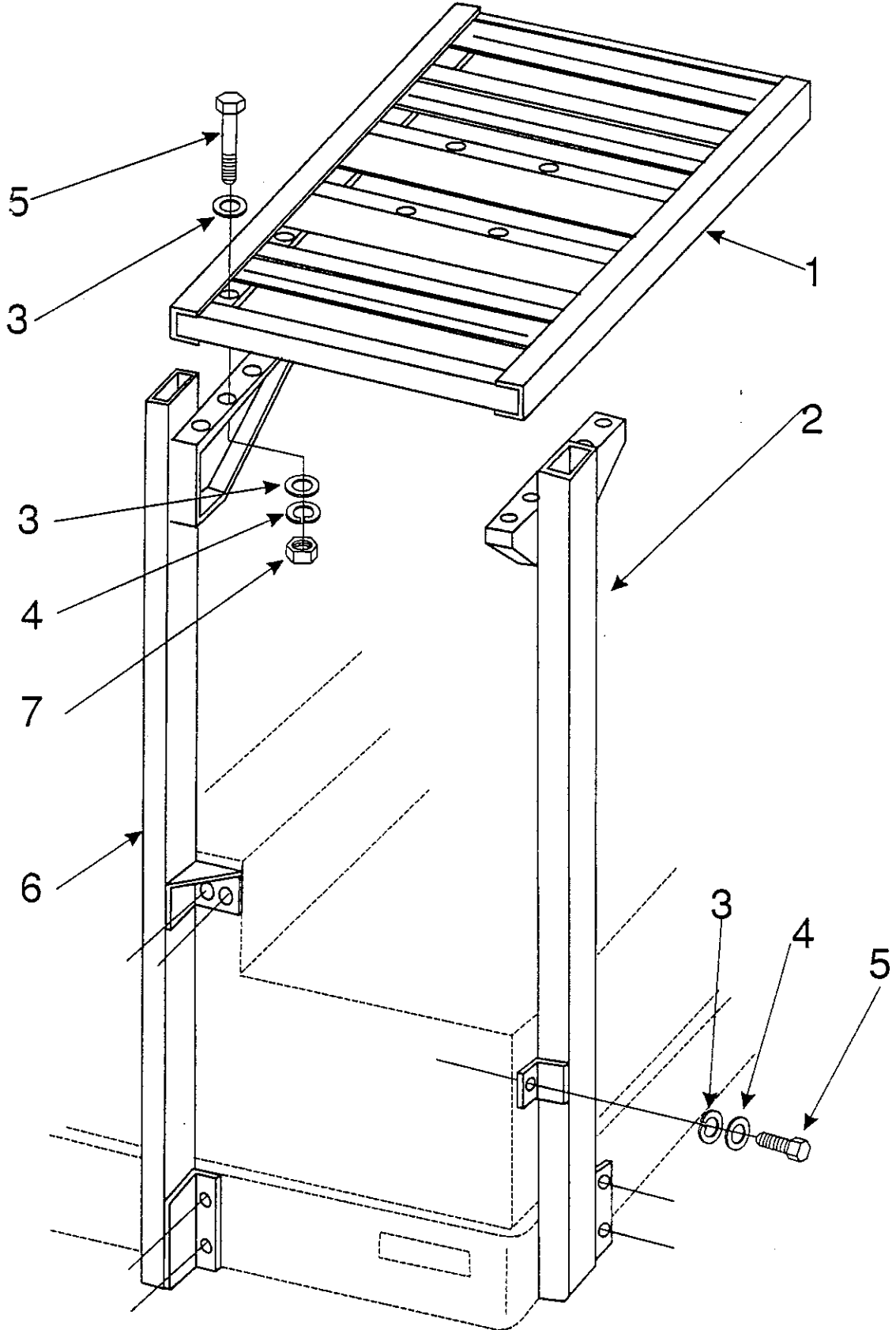
0780-252 RED FLASHING LIGHT / 0780-253 AMBER FLASHING LIGHT

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00221	Screw, 1/4-20 x .750 HHC	4
2	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
3	8-58-05228	Light Support	1
4	7-13-07096	Plastic Tab Tye	4
5	3-61-02014	Convoluted Tube, Cut to 30.000"	-
6	3-61-02014	Convoluted Tube, Cut to 9.000"	-
7	2-00-04578	Terminal, Bullet Male 18-14 .152	2
8	2-00-04626	Terminal, Bullet Female 18-14 .152	2
9	2-00-03063	Screw, #10-24 x .750 THM	2
10	2-00-00512	Lock Washer, #10 Int.	2
11	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	2
12	2-00-0406	Flat Washer, .750 x .281 x .062	2
15	8-40-05033	Red Flashing Light	1
15	8-40-05041	Amber Flashing Light	1
17	3-61-00193	(Red) Wire, 16 ga.- Cut to suit	10'
19	2-00-04479	Connector, 3-Way	1
20	2-00-03418	Terminal, 1/4 FISO	1
21	8-64-00007	Circuit Breaker, 10 AMP	1
22			
23	2-00-04345	Ty-Rap	10

0780-254 RED STROBE LIGHT / 0780-255 AMBER STROBE LIGHT

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	2-00-00221	Screw, 1/4-20 x .750 HHC	4
2	2-00-00518	Lock Washer, Helical Spring 1/4 Med	4
3	8-58-05228	Light Support	1
4	7-13-07096	Plastic Tab Tye	4
5	3-61-02014	Convoluted Tube, Cut to 30.000"	-
6	3-61-02014	Convoluted Tube, Cut to 9.000"	-
7	2-00-04578	Terminal, Bullet Male 18-14 .152	2
8	2-00-04626	Terminal, Bullet Female 18-14 .152	2
9	2-00-03063	Screw, #10-24 x .750 THM	2
10	2-00-00512	Lock Washer, #10 Int.	2
11	2-00-00605	Nut, Hex MS #10-24 x .375 x .125	2
16	8-40-05020	Red Strobe Light	1
16	8-40-05036	Amber Strobe Light	1
17	3-61-00193	(Red) Wire, 16 ga.- Cut to suit	10'
18	2-00-00838	Terminal, #10 Ring	1
19	2-00-04479	Connector, 3-Way	1
20	2-00-03418	Terminal, 1/4 FISO	1
21	8-64-00007	Circuit Breaker, 10 AMP	1
22			
23	2-00-04345	Ty-Rap	10

OVERHEAD GUARD OPTION

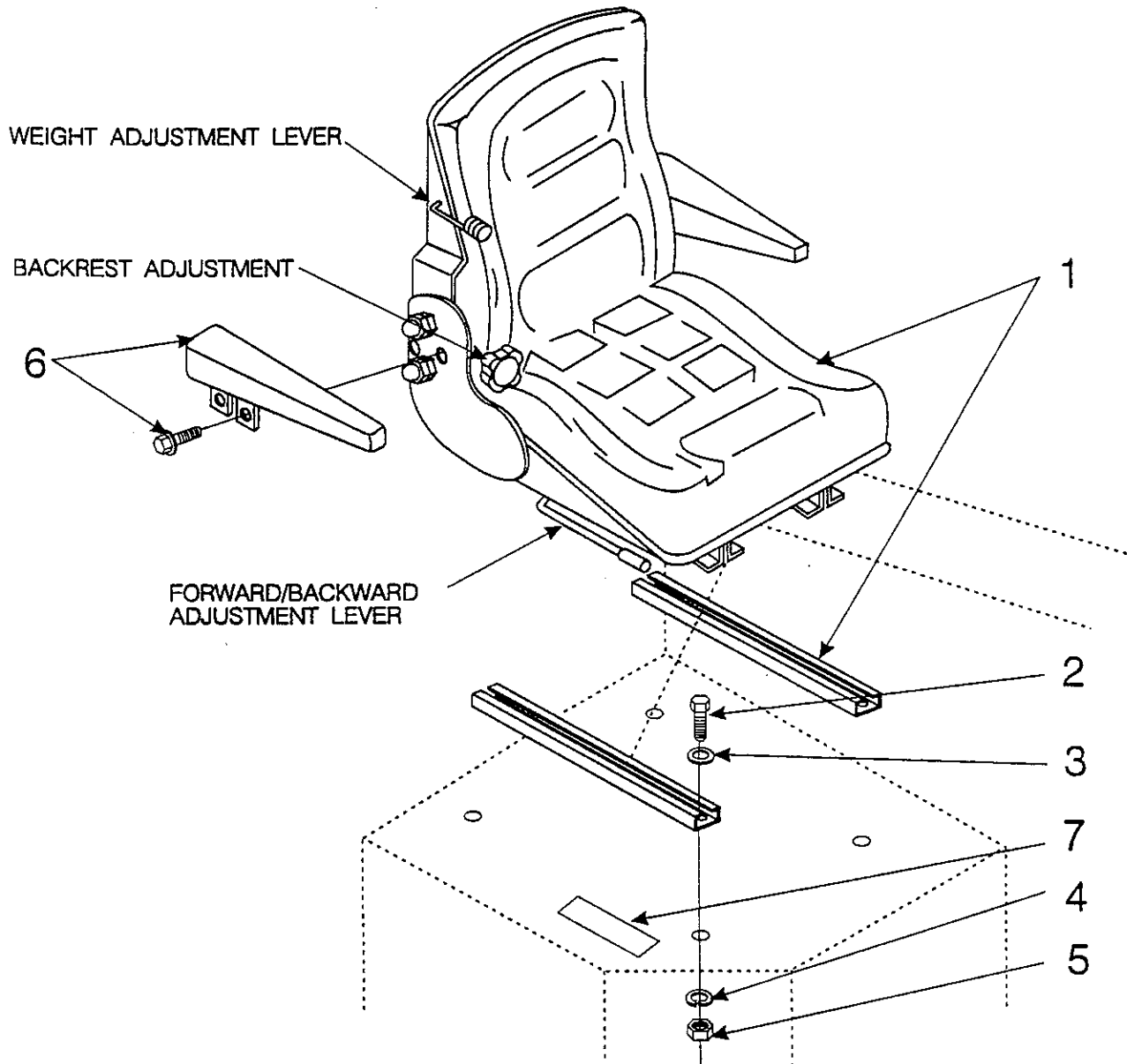


P-5017

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	7-30-05055	Grid	1
2	7-30-05059	Right Hand Support	1
3	2-00-00420	Flat Washer, 1.000 x .515 x .062	23
4	2-00-02312	Lock Washer, Helical Spring 1/2 Med	16
5	2-00-00240	Screw, 1/2-13 x 1.250 HHC	16
6	7-30-05058	Left Hand Support	1
7	2-00-00596	Nut, Hex 1/2-13 x .750 x .437	8

0780-110 Overhead Guard Option (Includes all the Above)

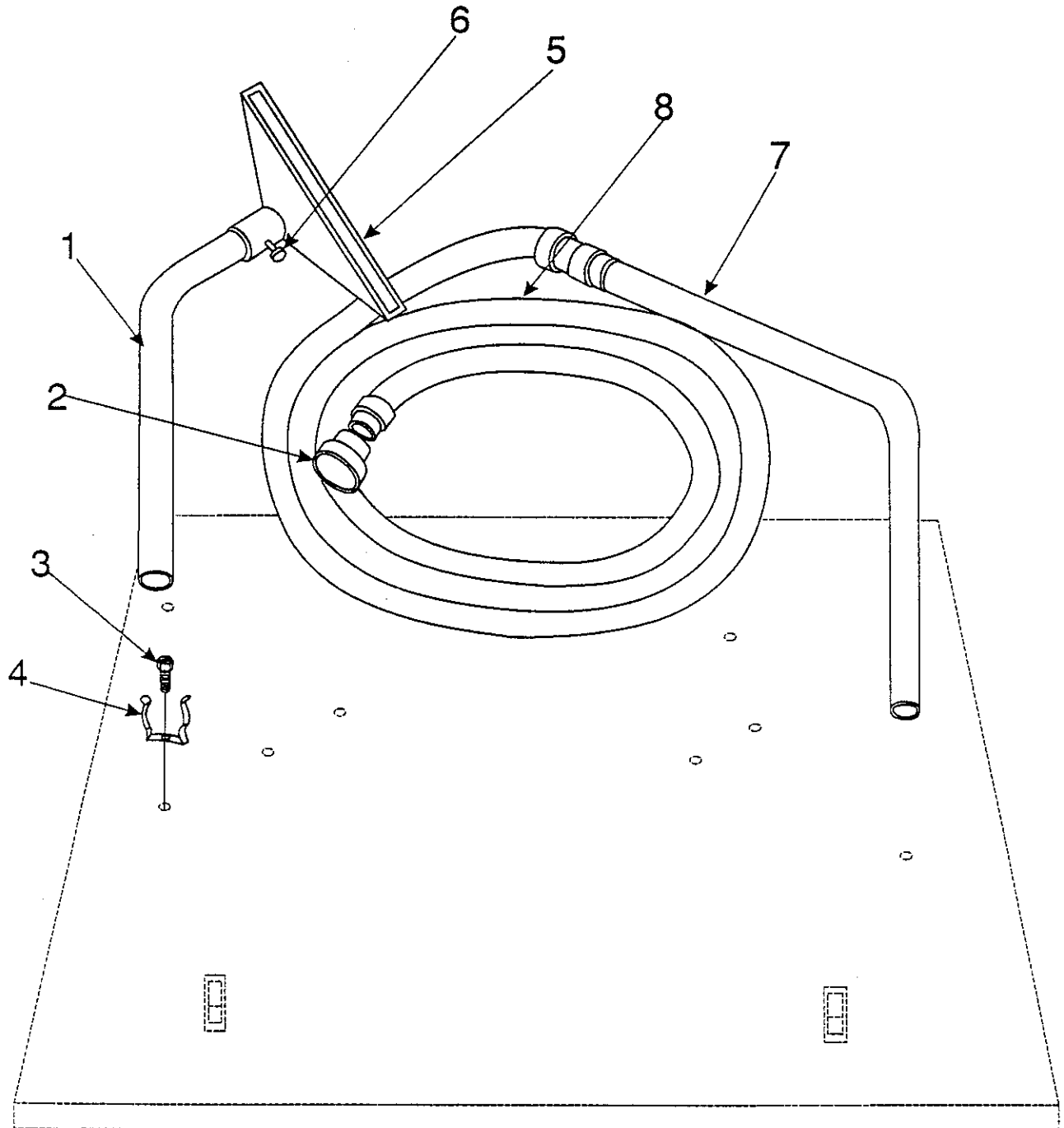
SUSPENSION SEAT OPTION



KEY NO.	PART NUMBER	DESCRIPTION	QTY
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	2-00-02322	Lock Washer, Helical Spring 5/16 Med	4
5	2-00-00585	Nut, 5/16-18 x .500 x .265	4
6	8-09-04272	Armrest Kit (Includes both Armrests)	1
7	8-18-00313	Decal, Seat Adjustment	1

0880-474 Suspension Seat Option (Includes all the Above) 1

SQUEEGEE WAND OPTION



P-5022

KEY NO.	PART NUMBER	DESCRIPTION	QTY
1	0261-026	Lower Wand	1
2	7-03-00044	Hose Adapter	1
3	2-00-04312	Screw, #10 - 24 x .625 T/C HH	8
4	7-13-07097	Tool Clip	8
5	0261-028	Squeegee Tool	1
6	7-55-08128	Pin	1
7	0261-027	Upper Wand	1
8	7-33-02213	Hose, 1 1/2 x 15'-0"	1
NS	7-18-00121	Decal, Warning (Located - center of rear bumper)	1

0780-117 Squeegee Wand Assembly Option (All of the above)

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**AMERICAN-LINCOLN RIDER MACHINE
"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 two (2) years or 2,000 hours of normal operation from the date of purchase, whichever comes first, but not to exceed three (3) years from the date of factory shipment, provided that the product is operated and maintained in accordance with American-Lincoln's Maintenance and Operations Instruction.

1. (a) During the first thirty (30) days from the date of purchase, American-Lincoln will provide, without charge, parts and on-site labor (including up to three (3) hours total roundtrip travel time) to remedy a defective product or part.

(b) During the next eleven (11) months or 1,000 hours (whichever comes 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 remainder of the warranty period, as itemized hereinabove, 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. Furthermore, if this product is powered by a liquid-cooled engine, American-Lincoln warrants to the original purchaser only, to provide replacement parts on the liquid cooled engine, which is defective in workmanship, for a period of three years or 2,500 hours (whichever comes first) of normal operation. All labor, travel time, shipping and freight charges shall be the sole responsibility of the purchaser.

C. In addition to the above, if applicable, 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 eight (8) years 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.

II. EXCLUSIONS

A. 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.

B. 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'S 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

A. 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:

1. The original purchaser shall promptly complete and return the warranty and installation registration form included with the product at the time of the purchase;

2. Upon product or part failure, the original purchaser shall promptly provide notice thereof to his nearest authorized American-Lincoln Service Representative; and

3. 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 1 hereinabove.

American-Lincoln reserves the right to make changes or improvements to its machines without notice. For best results use only the correct American-Lincoln Service Parts.

Clarke

American-Lincoln®

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