

TABLE OF CONTENTS

INSPECTING THE AIR FILTER ELEMENT	1-47
DUST CAP	1-47
COOLING SYSTEM	1-47
COOLANT LEVEL	1-47
RADIATOR	1-47
DRIVE BELTS	1-48
BATTERY	1-48
GAS TANK	1-49
LP GAS SYSTEM	1-49
LP GAS VAPORIZER-REGULATOR QUICK CHECK	1-49
LP GAS FUEL TANK	1-49
NEUTRAL ADJUSTMENT	1-49
PARTS LIST LEGEND	1-50
GENERAL TROUBLESHOOTING	1-51
SCHEMATIC DIAGRAM OPTIONS	1-53
ORDERING PARTS	1-54
TABLE OF CONTENTS - CHAPTER TWO	2-1
MAIN BROOM	2-2
MAIN BROOM LIFT LINKAGE	2-6
SIDE BROOM (VARIABLE DUMP)	2-8
BROOM AND BRUSH CHAMBER DOOR	2-10
HOPPER SYSTEM (MANUAL DUMP)	2-12
HOPPER AND FLAPS (VARIABLE DUMP)	2-14
HOPPER FILTER AND IMPELLER	2-16
HOPPER CONTROL VALVE & HOPPER DUMP LINKAGE (VARIABLE DUMP)	2-18
SCRUB DECK AND BRUSHES	2-20
SCRUB DECK SOLUTION FEED (60")	2-24
REAR AND SIDE SQUEEGEES	2-26
SQUEEGEE LIFT	2-30
SWING SQUEEGEE SUPPORT	2-32
SOLUTION TANK	2-34
SOLUTION FEED LINKAGE	2-36
RECOVERY TANK	2-40
RECOVERY TANK LID	2-42
VACUUM MOTOR & FLOAT	2-44
FRONT WHEEL AND BRAKE	2-46
REAR WHEEL	2-48
BRAKE LINKAGE	2-50
FORWARD/REVERSE CONTROL - FORD	2-52
FORWARD/REVERSE CONTROL - PERKINS	2-54
MAIN FRAME	2-56
DRIVER COMPARTMENT	2-58
HYDRAULIC HOSE SYSTEM (VARIABLE DUMP)	2-60
HYDRAULIC HOSE SYSTEM (MANUAL DUMP)	2-62
SUCTION & RETURN HOSES (VARIABLE DUMP)	2-64
SUCTION & RETURN HOSES (MANUAL DUMP)	2-66
MAIN BROOM AND FITTINGS	2-68
SIDE BROOM AND FITTINGS	2-69
SCRUB MOTORS & FITTINGS	2-70
SQUEEGEE AND SCRUB DECK CYLINDERS & FITTINGS	2-71
POWER STEERING, HOPPER DUMP & HOPPER LIFT CYL'S. & FITTINGS	2-72
REAR WHEEL MOTOR & FITTINGS	2-74
HYDRAULIC RESERVOIR, FILTER & FITTINGS	2-76
DRIVE PUMP & FITTINGS	2-78

TABLE OF CONTENTS

VACUUM MOTOR & FITTINGS	2-79
DUST CONTROL IMPELLER AND FITTINGS	2-80
POWER STEERING UNIT AND FITTINGS	2-81
MAIN CONTROL VALVE AND FITTINGS	2-82
CYLINDER CONTROL VALVE AND FITTINGS	2-83
RETURN MANIFOLD AND FITTINGS	2-84
OIL COOLER & FITTINGS	2-85
AUXILIARY PUMP AND FITTINGS FORD	2-86
AUXILIARY PUMP AND FITTINGS PERKINS	2-87
BATTERY	2-88
ENGINE COVER	2-90
FUEL TANK	2-92
FORD 425 ENGINE	2-94
PERKINS DIESEL ENGINE	2-96
THROTTLE CHOKE AND FUEL PUMP	2-98
DIESEL FUEL AND WATER EXTRACTOR	2-100
AIR INTAKE - FORD	2-102
AIR INTAKE - PERKINS	2-104
EXHAUST SYSTEM, GAS AND LP - FORD	2-106
EXHAUST SYSTEM, DIESEL - PERKINS	2-107
RADIATOR AND SHROUD	2-108
STEERING AND INSTRUMENT PANEL	2-110
INSTRUMENT PANEL	2-112
INSTRUMENT PANEL (MANUAL DUMP)	2-114
WIRING - FORD 425 (VARIABLE DUMP)	2-116
WIRING - PERKINS (VARIABLE DUMP)	2-118
WIRING - FORD 425 (MANUAL DUMP)	2-120
WIRING - PERKINS (MANUAL DUMP)	2-122
DECALS	2-124
TABLE OF CONTENTS - CHAPTER THREE	3-1
NOTES	3-2
ELECTRICAL SCHEMATIC, GAS (VARIABLE DUMP)	3-3
ELECTRICAL SCHEMATIC, DIESEL (VARIABLE DUMP)	3-4
ELECTRICAL SCHEMATIC, GAS (MANUAL DUMP)	3-5
ELECTRICAL SCHEMATIC, DIESEL (MANUAL DUMP)	3-6
CONNECTION DIAGRAM, GAS (VARIABLE DUMP)	3-7
CONNECTION DIAGRAM, DIESEL, VARIABLE DUMP)	3-8
CONNECTION DIAGRAM, GAS (MANUAL DUMP)	3-9
CONNECTION DIAGRAM, DIESEL (MANUAL DUMP)	3-10
OVERHEAD GUARD, OPTION	3-11
BRUSH OPTIONS	3-12
SIDE BROOM OPTION (MANUAL DUMP)	3-14
BROOM OPTIONS	3-16
BACK-UP ALARM OPTION	3-17
LIGHTS, OPTIONS	3-18
TURN SIGNAL, OPTIONS	3-20
WARNING LIGHTS (STANDARD)	3-22
WARNING LIGHTS WITH OVERHEAD GUARD	3-24
FIRE EXTINGUISHER OPTION	3-26
FLAME ARRESTING GAS CAP OPTION	3-27

SAFETY AIR CLEANER	3-28
DEBRIS BASKET OPTION	3-29
DETERGENT & SOLUTION TANK, ESP OPTION	3-30
RECOVERY TANK & DETERGENT PUMP, ESP OPTION	3-32
LP TANK SYSTEM OPTION	3-34
LP FORD ENGINE	3-36
FORD ENGINE SHUTDOWN OPTION	3-38
PERKINS ENGINE SHUTDOWN OPTION	3-40
SUSPENSION SEAT, OPTION	3-42
TIRE, OPTIONS	3-43
VACUUM WAND OPTION	3-44
WET SWEEP BYPASS	3-45
INSTRUMENT PANEL, ESP OPTION	3-46
WIRING, ESP OPTION	3-48
SPARE PARTS KIT, GAS/LP VARIABLE	3-50
SPARE PARTS KIT, DIESEL VARIABLE	3-51
SPARE PARTS KIT, GAS/LP MANUAL	3-52
SPARE PARTS KIT, DIESEL MANUAL	3-53
INDEX	3-54
WARRANTY	3-59

SPECIFICATIONS

DIMENSIONS

Length	107.0 Inches - 271.8 Cm.
Width	59.0 Inches - 149.9 Cm.
Height	61.5 Inches - 156.2 Cm.
Wheel Base	56.4 Inches - 143.2 Cm.
Height with Guard	85.5 Inches - 217.2 Cm.

DRIVES

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

HYDRAULIC CONTROL

Single Foot Pedal Controls Forward, Neutral, Reverse & Dynamic Braking.
All Electro-Hydraulic Controls To Both Sweeping And Scrubbing Functions.

MECHANICAL SYSTEM

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

SWEEPING SYSTEM

Type	Direct Throw
Hopper	1200 Lb. - 545 Kg. (Variable Dump) 400 Lb. - 181 Kg. (Manual Dump)
Main Broom	50 Inches Long X 14-Inch Diameter - 127 Cm. X 35.6 Cm. 3.25 Inch Bristle Length - 8.3 Cm. Features Broom Lift and Adj. Broom Height For Wear Compensation, Standard Poly-Fiber Broom, Quick Change System.

BRUSHES & SQUEEGEE

Brush	(3) 17.88 Inch (45.4 Cm.) Diameter Poly-Fiber Discs
Squeegees	(1) 62 Inch (157.48 Cm.) Wide Contoured Rear Swing Squeegee (2) 29 Inch (73.7 Cm.) Floating Side Squeegees, One On Either Side Of the Scrubbing Compartment

TANK CAPACITY (Standard)

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

TANK CAPACITY (ESP System)

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

FUEL SYSTEM

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

SWEEPING WIDTH

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

SPEEDS

Maximum Travel 7 Mph - 11.3 Km./Hr.
Recommended Maximum
Sweeping And
Scrubbing Speed 4.0 Mph - 6.4 Km./Hr.

TURNING RADIUS

Left 82 Inches - 208.3 Cm.
Right 82 Inches - 208.3 Cm.
Minimum Aisle Width for 180° Turn
120 Inches - 305 Cm.
Scrubbing Width 54" Inches (137 Cm.) Provided By (3) 17.88 Inch (45.4 Cm.)
Diameter Disc Brushes

WEIGHTS

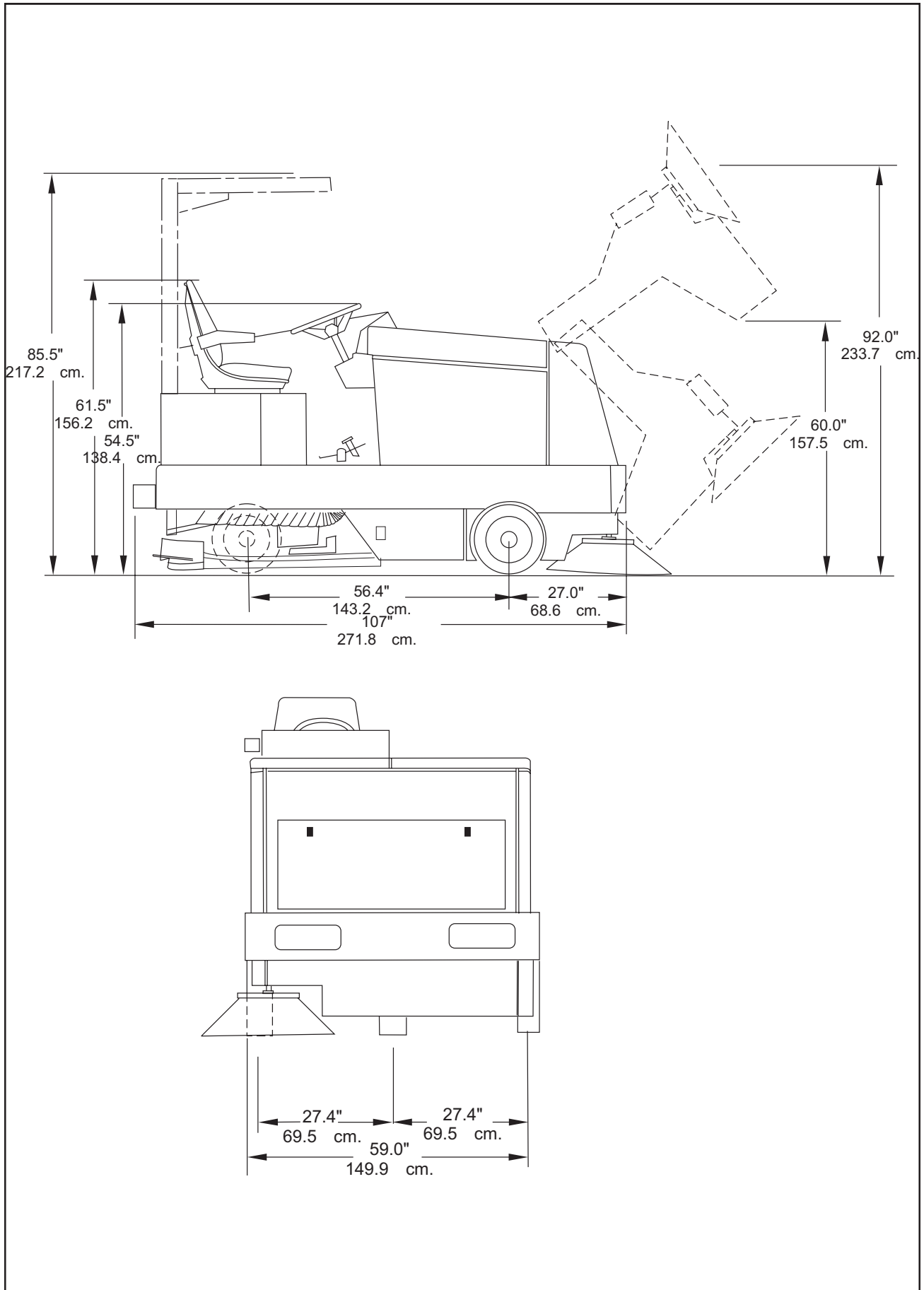
7760 Variable Dump/Manual Dump
Net 4150 Lb. - 1882 Kg. / 3700 Lb. - 1678 Kg.
Shipping W/ Crate 4600 Lb. - 2087 Kg./ 4150 Lb. - 1882 Kg.

ENGINE DATA

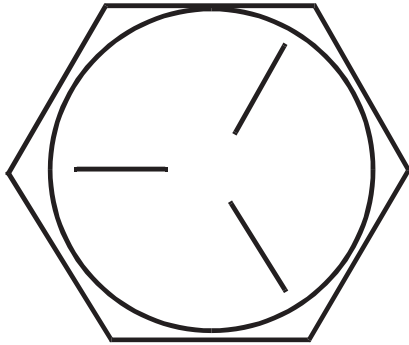
Ford LRG - 425
Bore And Stroke 3.78 X 3.126 In. - 9.60 X 7.94 Cm.
Oil Capacity 4 Quarts - 3.8 Liters
Displacement 4 Cylinders - 2.3 Liters (140 Cid)
Fuel "Regular" Unleaded Gasoline

Perkins 104.19
Bore And Stroke 8.307" X 3.543 (8.4 Cm X 9.0 Cm)
Oil Capacity 6.5 Quarts (6.2 Liters)
Displacement 4 Cylinders (2 Liters) (122 Cid)

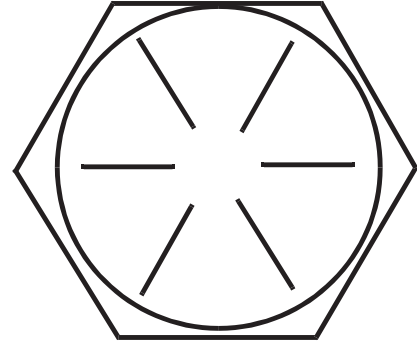
MACHINE DIMENSIONS



BOLT IDENTIFICATION



SAE - Grade 5



SAE - Grade 8

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

C = Coarse Thread

F = Fine Thread

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

NOTE

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

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C2000/9905

HYDRAULIC TORQUE REQUIREMENTS

HYDRAULIC TORQUE REQUIREMENTS

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

Nominal SAE Dash Size	O-Ring Face Seal End		SAE O-Ring Boss End	
	Thread Size Inch	Swivel Nut Torque	Thread Size Inch	Str. Fitting or Locknut Torque
		LB-FT		LB-FT
-3	*	*	3/8-24	8-10
-4	9/16-18	10-12	7-16-20	14-16
-5	*	*	1/2-20	18-20
-6	11/16-16	18-20	9/16-18	24-25
-8	13/16-16	32-35	3/4-16	50-60
-10	1-14	46-50	7/8-14	72-80
-12	1 3/16-12	65-70	1 1/16-12	125-135
-14	1 3/16-12	65-70	1 3/16-12	160-180
-16	1 7/16-12	92-100	1 5/16-12	200-220
-20	1 11/16-12	125-140	1 5/8-12	210-280
-24	2-12	150-165	1 7/8-12	270-360

* O-Ring face seal type end not defined for this tube size.

NOTE

Parts must be lightly oiled with hydraulic fluid.

C-2002

DECIMAL-METRIC CONVERSION TABLE

FRACTION	DECIMAL	MILLIMETER	FRACTION	DECIMAL	MILLIMETER
$\frac{1}{64}$	0.015625	0.3969	$\frac{33}{64}$	0.515625	13.0969
$\frac{1}{32}$	0.03125	0.7938	$\frac{17}{32}$	0.53125	13.4938
$\frac{3}{64}$	0.046875	1.1906	$\frac{35}{64}$	0.546875	13.8906
$\frac{1}{16}$	0.0625	1.5875	$\frac{9}{16}$	0.5625	14.2875
$\frac{5}{64}$	0.078125	1.9844	$\frac{37}{64}$	0.578125	14.6844
$\frac{3}{32}$	0.09375	2.3813	$\frac{19}{32}$	0.59375	15.0813
$\frac{7}{64}$	0.109375	2.7781	$\frac{39}{64}$	0.609375	15.4781
$\frac{1}{8}$	0.125	3.1750	$\frac{5}{8}$	0.625	15.8750
$\frac{9}{64}$	0.140625	3.5719	$\frac{41}{64}$	0.640625	16.2719
$\frac{5}{32}$	0.15625	3.9688	$\frac{21}{32}$	0.65625	16.6688
$\frac{11}{64}$	0.171875	4.3656	$\frac{43}{64}$	0.671875	17.0656
$\frac{3}{16}$	0.1875	4.7625	$\frac{11}{16}$	0.6875	17.4625
$\frac{13}{64}$	0.203125	5.1594	$\frac{45}{64}$	0.703125	17.8594
$\frac{7}{32}$	0.21875	5.5563	$\frac{23}{32}$	0.71875	18.2563
$\frac{15}{64}$	0.234375	5.9531	$\frac{47}{64}$	0.734375	18.6531
$\frac{1}{4}$	0.25	6.3500	$\frac{3}{4}$	0.75	19.0500
$\frac{17}{64}$	0.265625	6.7469	$\frac{49}{64}$	0.765625	19.4469
$\frac{9}{32}$	0.28125	7.1438	$\frac{25}{32}$	0.78125	19.8438
$\frac{19}{64}$	0.296875	7.5406	$\frac{51}{64}$	0.796875	20.2406
$\frac{5}{16}$	0.3125	7.9375	$\frac{13}{16}$	0.8125	20.6375
$\frac{21}{64}$	0.328125	8.3344	$\frac{53}{64}$	0.828125	21.0344
$\frac{11}{32}$	0.34375	8.7313	$\frac{27}{32}$	0.84375	21.4313
$\frac{23}{64}$	0.359375	9.1281	$\frac{55}{64}$	0.859375	21.8281
$\frac{3}{8}$	0.375	9.5250	$\frac{7}{8}$	0.875	22.2250
$\frac{25}{64}$	0.390625	9.9219	$\frac{57}{64}$	0.890625	22.6219
$\frac{13}{32}$	0.40625	10.3188	$\frac{29}{32}$	0.90625	23.0188
$\frac{27}{64}$	0.421875	10.7156	$\frac{59}{64}$	0.921875	23.4156
$\frac{7}{16}$	0.4375	11.1125	$\frac{15}{16}$	0.9375	23.8125
$\frac{29}{64}$	0.453125	11.5094	$\frac{61}{64}$	0.953125	24.2094
$\frac{15}{32}$	0.46875	11.9063	$\frac{31}{32}$	0.96875	24.6063
$\frac{31}{64}$	0.484375	12.3031	$\frac{63}{64}$	0.984375	25.0031
$\frac{1}{2}$.05	12.7000	1	1.00	25.4000

C2001/9905



P5100/9907

FIGURE 1

YOUR 7760 MACHINE HAS BEEN SHIPPED COMPLETE, BUT DO NOT ATTEMPT TO OPERATE WITHOUT FOLLOWING THESE INSTRUCTIONS.

PREPARING THE MACHINE FOR OPERATION

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



WARNING

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

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



WARNING

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

Operators must be trained and qualified to operate this machine. They must also understand the operator's manual before starting.

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

Operate only from the designated operator's position. Stay inside the body of the machine. Keep hands and feet on the designated controls. Always operate in well-lit areas.

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

Exhibit extreme caution when negotiating, turning and traveling across grades or ramps.

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

Watch out for obstructions, especially overhead.

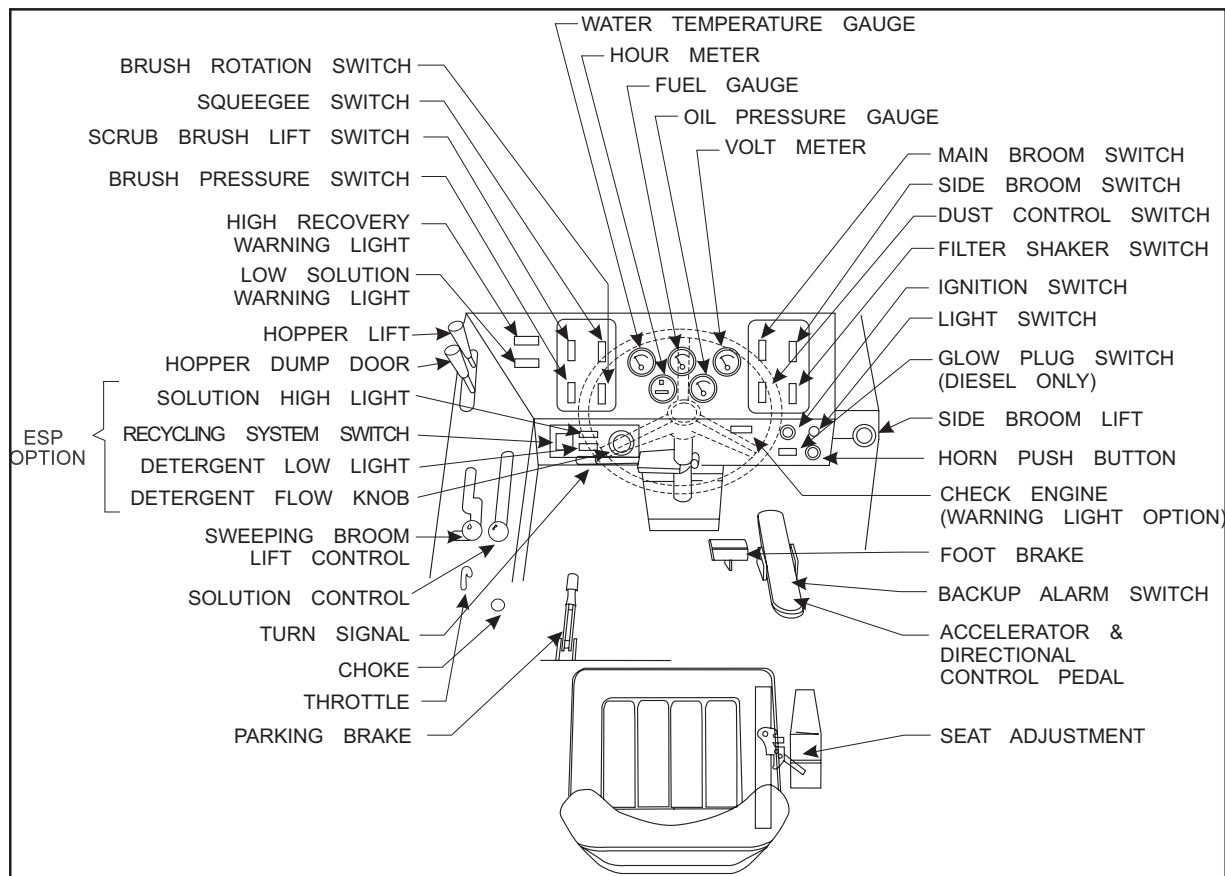
Do not carry passengers on the machine.

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

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

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

OPERATIONS OF CONTROLS AND GAUGES



P-5101

FIGURE 2

IGNITION SWITCH

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

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

LIGHT SWITCH

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

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

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

GLOW PLUG SWITCH (Diesel)

Under no circumstances should any other unauthorized starting aids be used at the same time as Glow Plugs. The Glow Plug Switch is located to the right of the steering column on the front face of the instrument console. Use the following procedure to operate.

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

HORN PUSH BUTTON

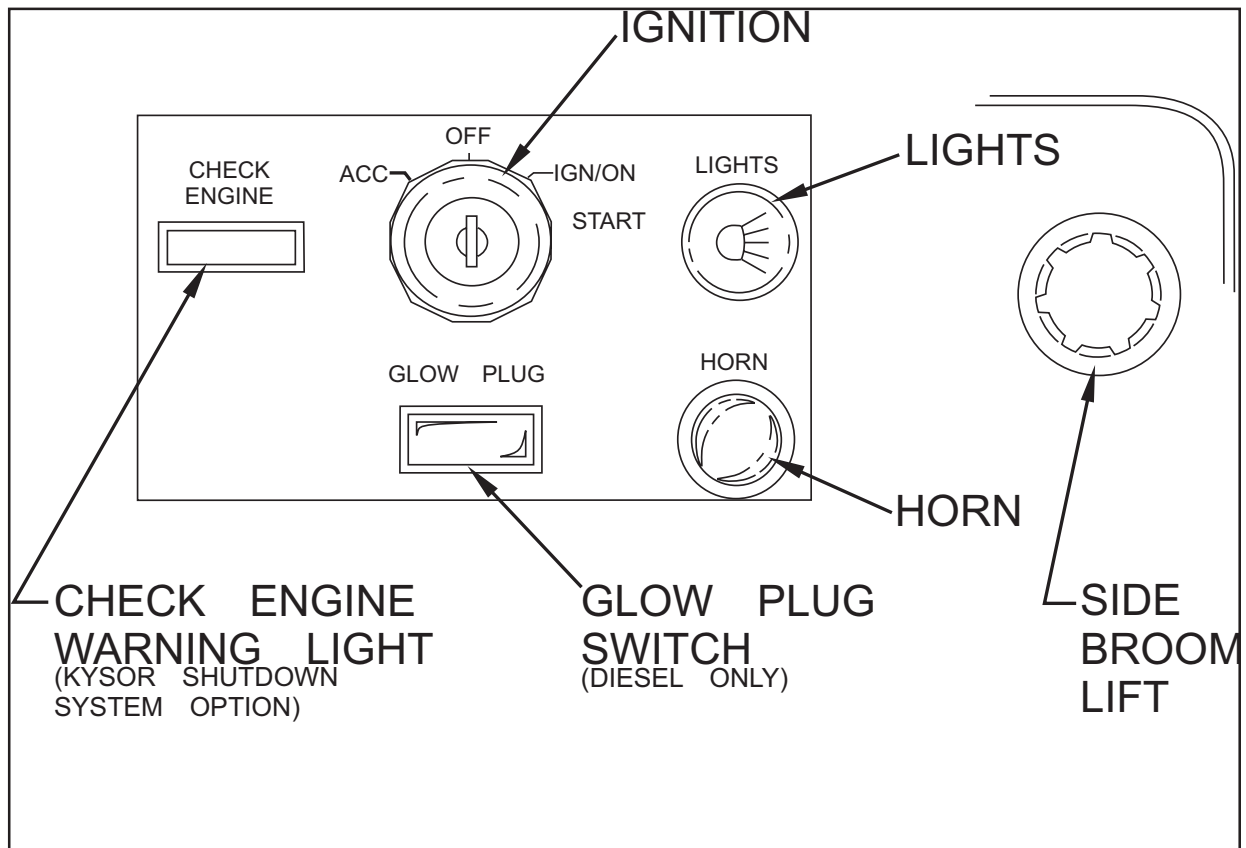
The horn button is located to the right of the steering column on the front face of instrument console. The horn button is always active. Push the horn button to sound the horn.

CHECK ENGINE (WARNING LIGHT OPTION)

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

SIDE BROOM LIFT (OPTIONAL FOR MANUAL DUMP)

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



P-4853

FIGURE 3

OPERATIONS OF CONTROLS AND GAUGES

MAIN BROOM SWITCH

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

SIDE BROOM SWITCH (Option For Manual Dump Machines)

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

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

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

FILTER SHAKER SWITCH (Variable Dump Machines Only)

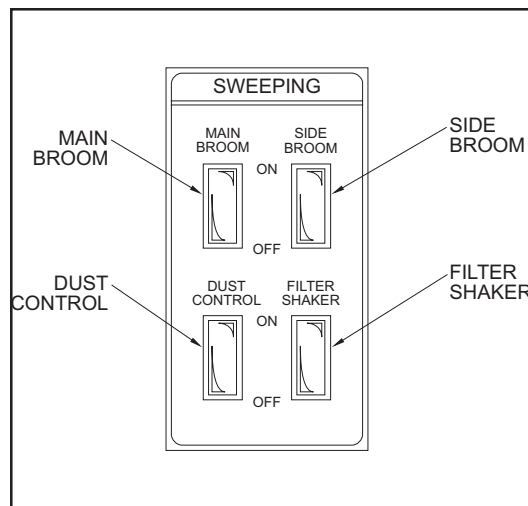
The Filter Shaker Switch is located on the console to the right of the steering wheel in the SWEEPING section.

NOTE - (Variable Dump Machines Only)

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

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

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



P-4862

FIGURE 4

NOTE - (Variable Machines Only)

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

WATER TEMPERATURE GAUGE

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

HOUR METER

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

FUEL GAUGE

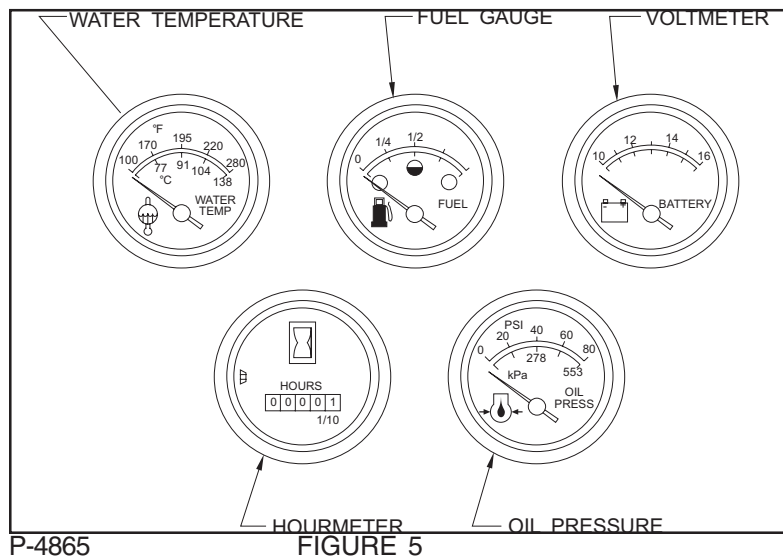
The Fuel Gauge is located on the console panel above the steering wheel in the gauge cluster. This gauge indicates the level of fuel contained in the fuel tank.

OIL PRESSURE GAUGE

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

VOLT METER

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



P-4865

FIGURE 5

SCRUB BRUSHES SWITCH

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

OPERATIONS OF CONTROLS AND GAUGES

BRUSH ROTATION SWITCH

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

BRUSH PRESSURE SWITCH

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

SQUEEGEE BLADE SWITCH

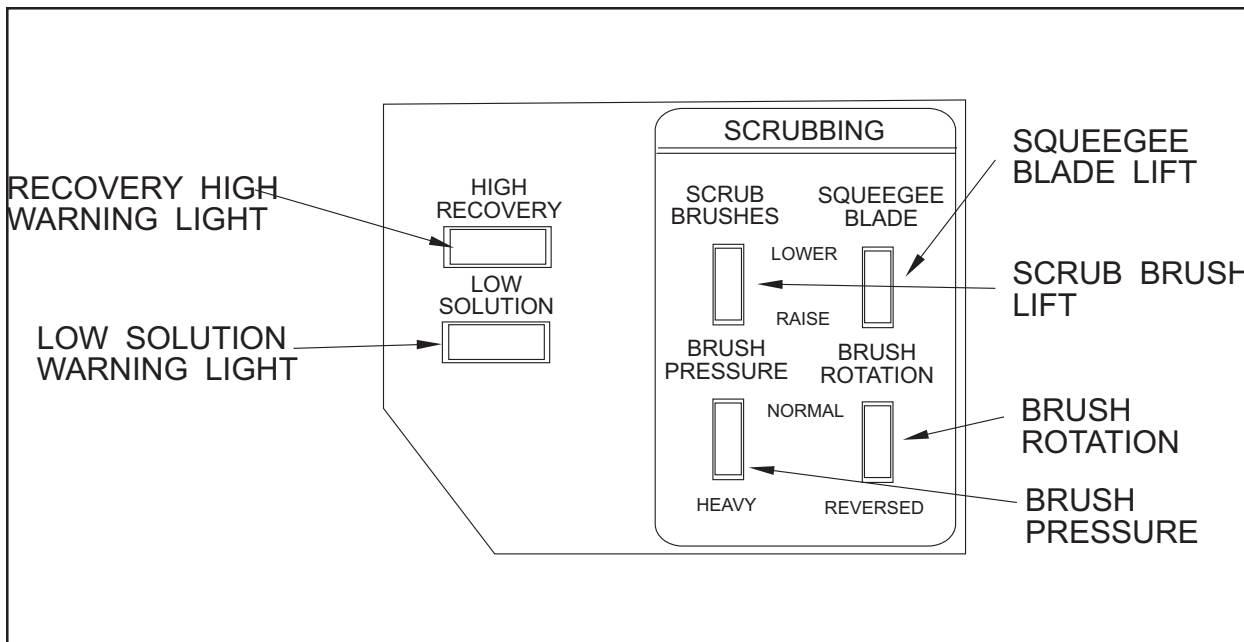
The Squeegee Blade Switch is located on the console to the left of the steering wheel in the “SCRUBBING” section. This switch in the position marked “LOWER” will lower the squeegee and activate the squeegee vacuum. This switch in the “RAISE” position will stop the squeegee vacuum and raise the squeegee.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

HIGH RECOVERY WARNING LIGHT

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

LOW SOLUTION WARNING LIGHT

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



P-4854

FIGURE 6

HOPPER LIFT - (Variable Machines Only)

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



WARNING

The hopper may drop unexpectedly and cause injury, always engage the safety arm before working under the hopper.

HOPPER DUMP DOOR - (Variable Machines Only)

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

MANUAL DUMP HOPPER - (Manual Dump Hopper Only)

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

SOLUTION CONTROL

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

NOTE

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

SWEEPING BROOM LIFT CONTROL

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

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

NOTE - (Variable Dump Machines Only)

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

TURN SIGNAL - 4 Way (Option)

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

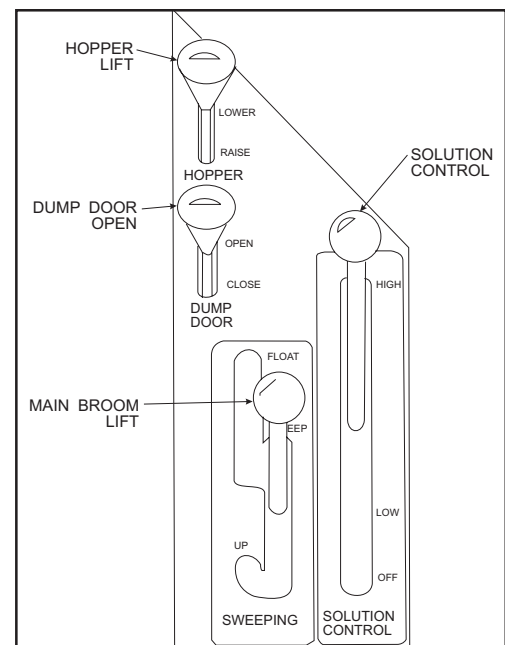


FIGURE 7

OPERATIONS OF CONTROLS AND GAUGES

THROTTLE

The throttle control is located to the left of the driver compartment. The engine must be operating at full governed speed of 2150 “no load” RPM (broom control off and machine sitting still), to maintain optimum machine travel speed, hopper loading and dust control. Before turning off the key and stopping the engine, move lever to idle speed.

CHOKE

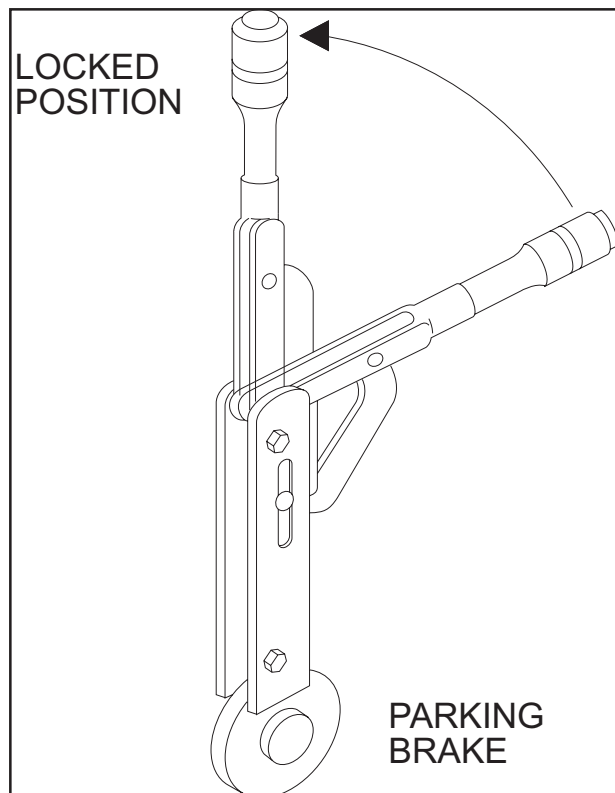
LP powered engines do not have a choke. The choke is located to the right of the throttle. The choke governs the mixture of air and fuel during the combustion cycle of the engine operation. The choke should be pulled out during the start of the engine and then gradually pushed back in after the engine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

PARKING BRAKE

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

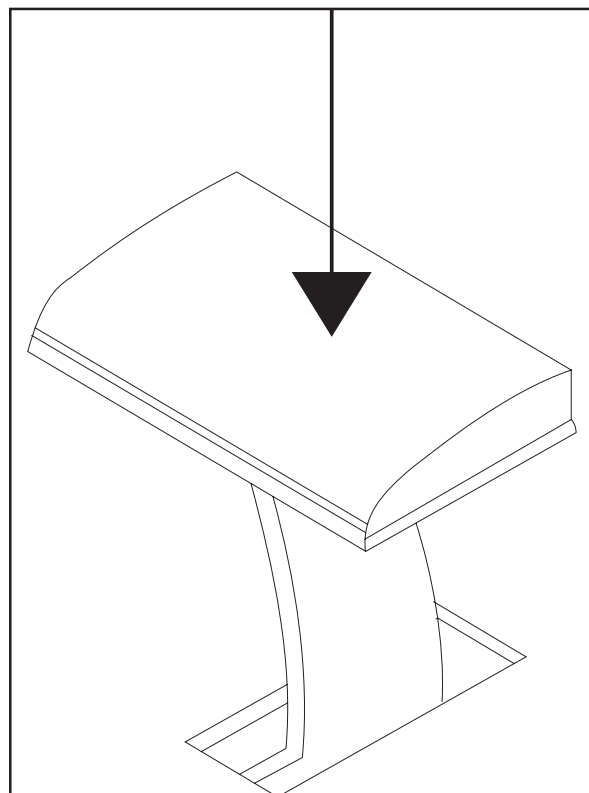
FOOT BRAKE

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



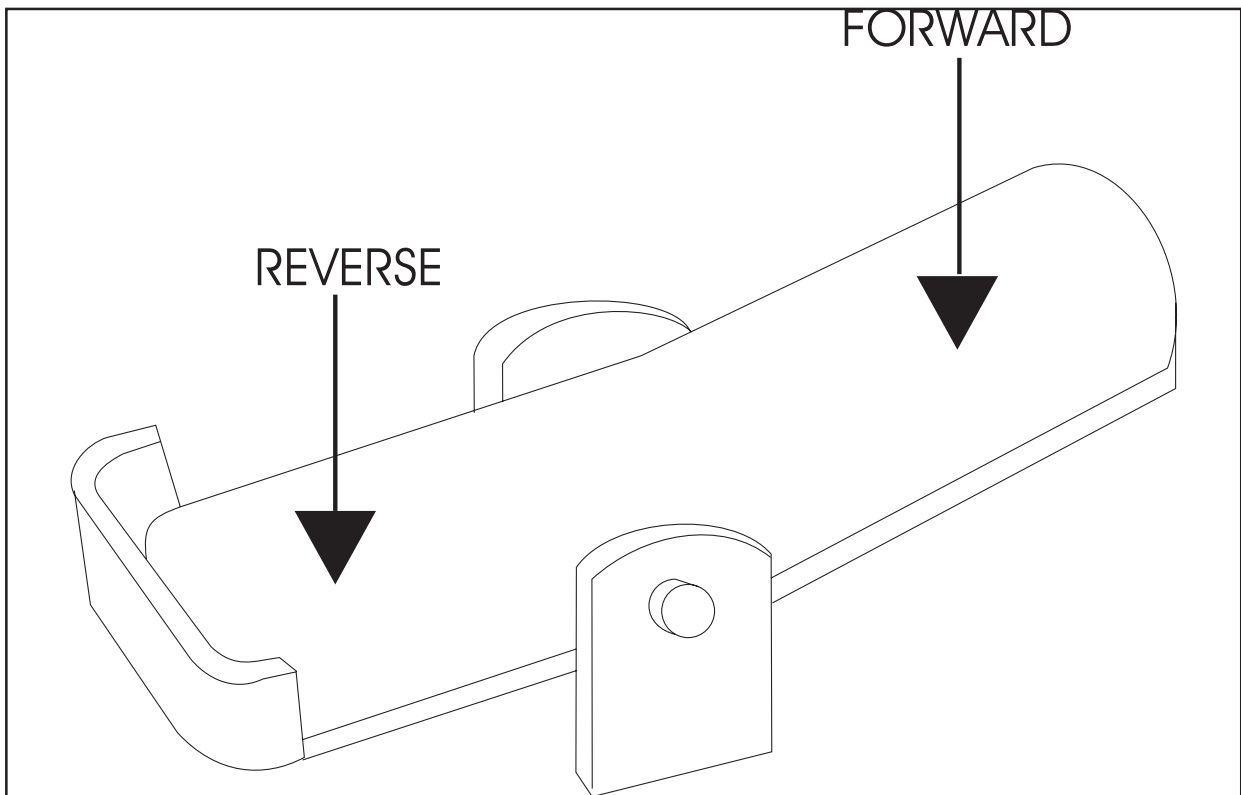
P-4888

FIGURE 8



P-4887

FIGURE 9



P-4690

FIGURE 10

ACCELERATOR & DIRECTIONAL CONTROL PEDAL

The accelerator and directional control pedal is located on the floor of the driver compartment, to the right of the brake pedal. The accelerator and directional control pedal controls the machine direction and travel speed.

1. Put foot pressure on the upper portion of the pedal. The machine will move forward.
2. Increase the foot pressure on the upper portion of the pedal to increase the forward speed.
3. Put foot pressure on the lower portion of the pedal. The machine will move in reverse.
4. Increase the foot pressure on the lower portion of the pedal to increase the reverse speed.
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 lower portion of the pedal. If the machine is moving in reverse put light foot pressure on the upper portion of the pedal.

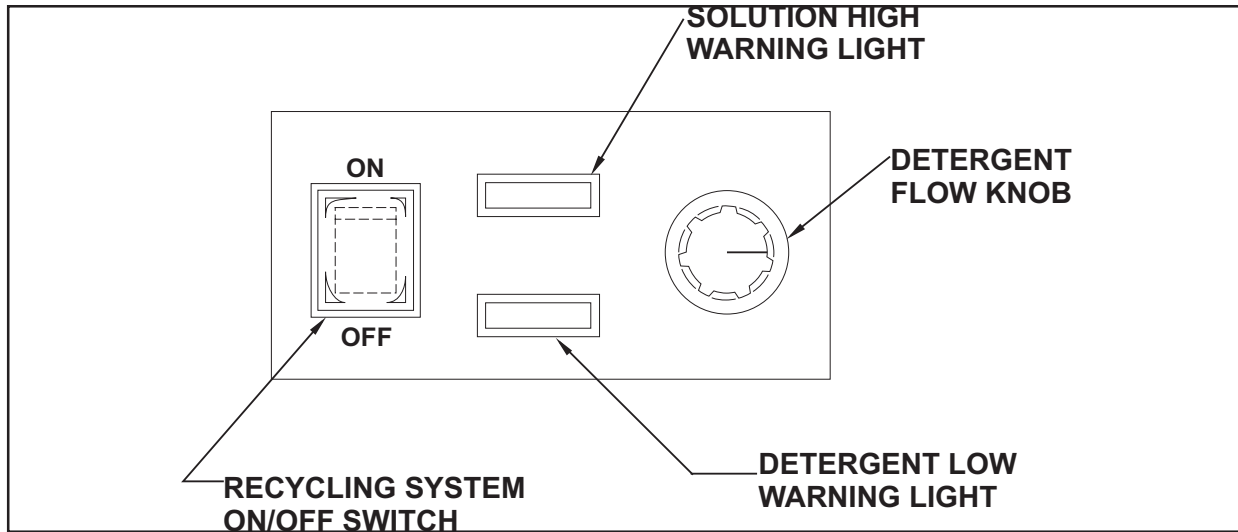
BACKUP ALARM SWITCH

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

SEAT ADJUSTMENT

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

ESP SYSTEM OPERATING INSTRUCTIONS



THE ESP RECYCLING CONTROL PANEL THE ESP RECYCLING SYSTEM ON/OFF SWITCH

This switch turns the ESP recycling system on and off.

SOLUTION HIGH WARNING LIGHT

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

DETERGENT LOW WARNING LIGHT

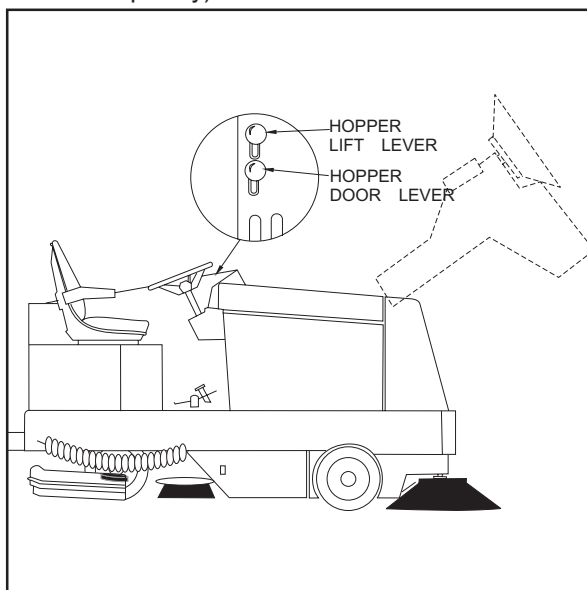
The detergent light will illuminate when the detergent tank is low, warning the operator to add detergent.

DETERGENT FLOW KNOB

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

HOPPER SAFETY LOCK ARM

(Variable Dump Only)

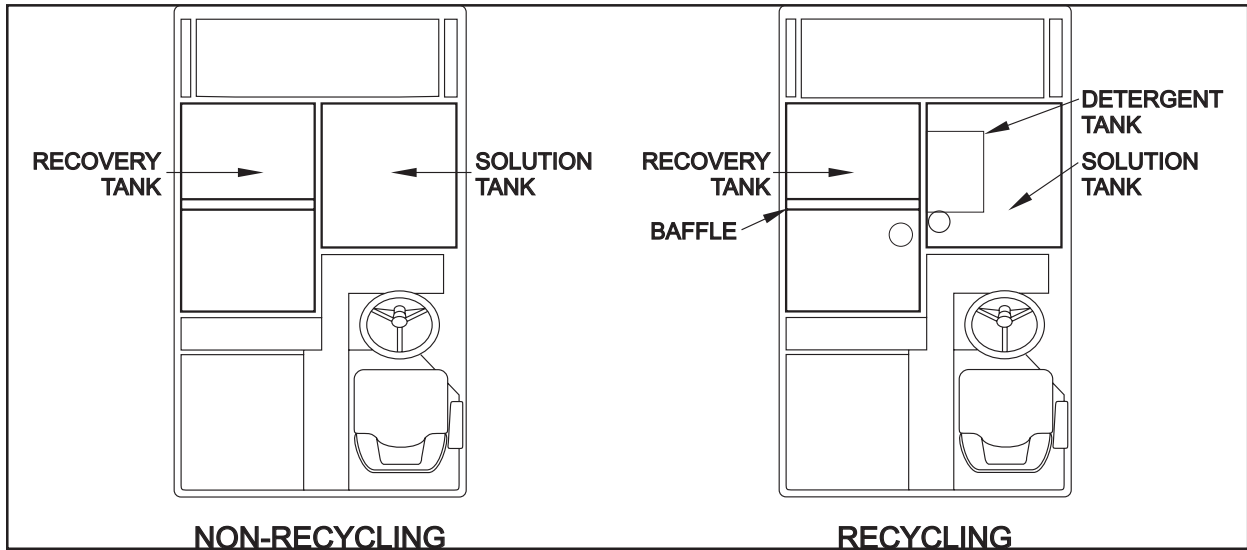


WARNING

When the hopper is raised the safety arm must be engaged before ANY work is done under the hopper.

The Hopper Safety Lock Arm is located under the hopper assembly. After the work is complete the safety arm must be disengaged.

THE SCRUBBING SYSTEM - HOW IT WORKS



P-4795

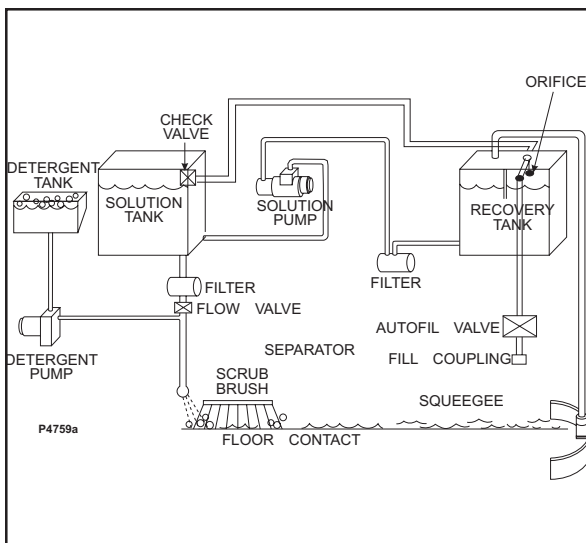
FIGURE 13

There are two scrubbing systems available for the 7760 machine, the non-recycling or standard scrubbing system and the recycling or ESP scrubbing system.

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

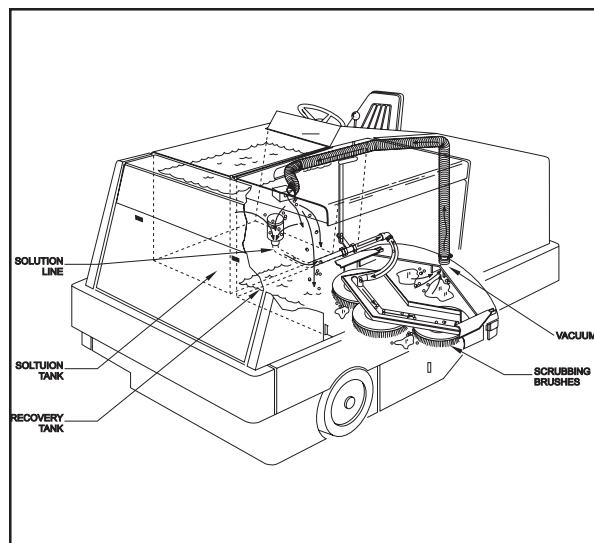
During the scrubbing process (shown in Figure 14), detergent solution water from the solution tank is fed to the solution line. There it is fed to the floor where three disc scrubbing brushes work to dislodge soil.

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



P-4759a

FIGURE 14



P-5103

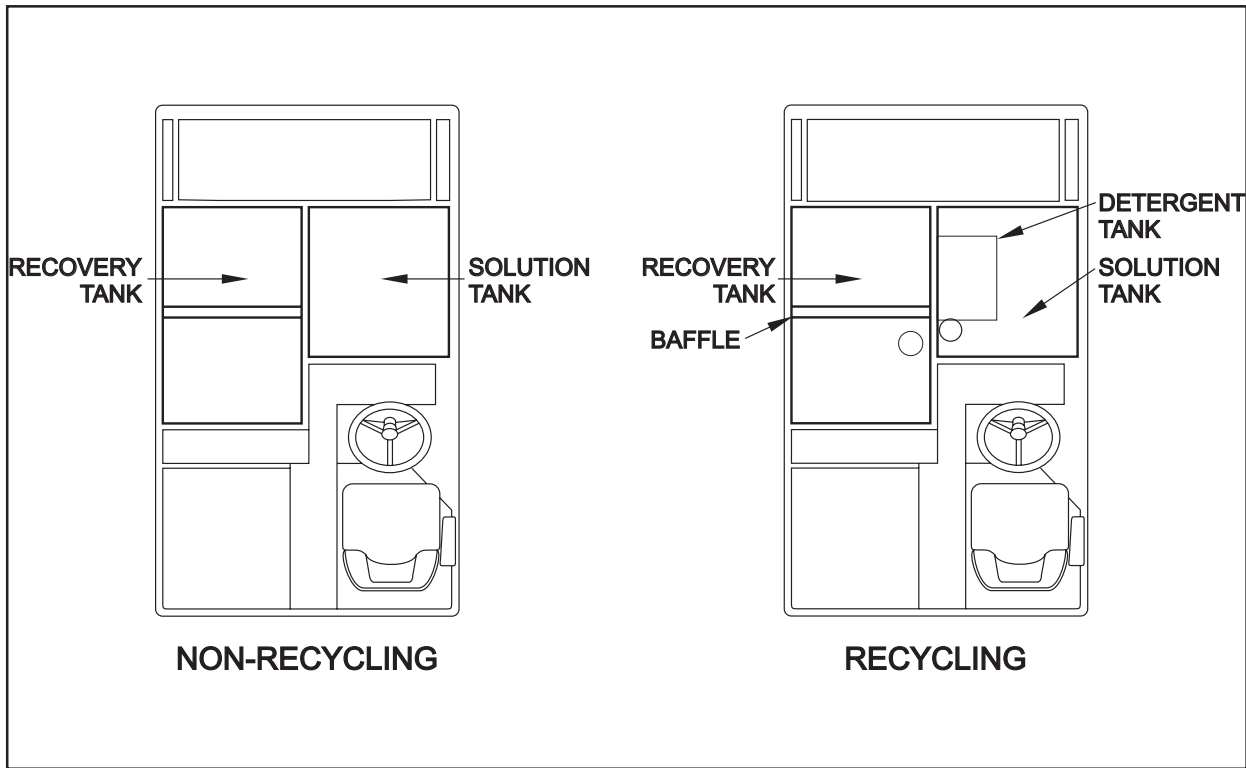
FIGURE 15

ESP SYSTEM OPERATING INSTRUCTIONS

THE RECOVERY OR ESP SYSTEM - HOW IT WORKS

During the scrubbing process (shown in Figure 16), filtered water from the solution tank is fed to the solution line, where it combines with detergent from the metering pump. This mixture is then fed to the floor where three disc scrubbing brushes work to dislodge soil.

After scrubbing, the dirty solution is vacuumed from the floor and discharged into the containment chamber in the forward portion of the recovery tank, where a system of baffles helps to clarify the solution on its way to the pumping chamber in the rear of the recovery tank. At intervals, a system of sensors activates the recycling pump, which sends filtered solution from the pumping chamber on its way to the solution tank. Here, it is ready to be mixed with fresh, metered detergent and repeat the cycle.



P-4795-1

FIGURE 16

