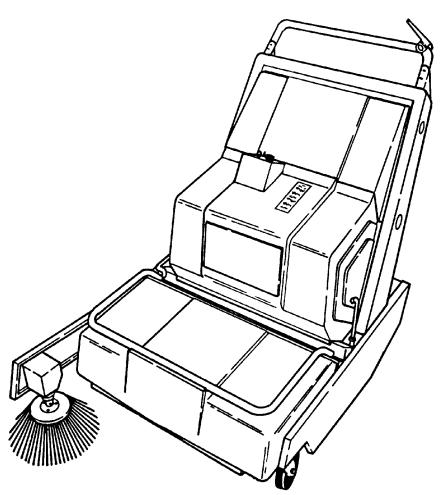


# **SCOUT 37B**

**SWEEPER** 

## **OPERATOR AND PARTS MANUAL**



608792 Rev. 06 (12-2006)



www.nobles.com

All operators and maintenance personnel **MUST** read and understand this manual before operating or maintaining this equipment. Pay particular attention to cautions and warnings. If assistance is required, contact Customer Support at 1–800–553–8033.

This manual covers all machine variations and standard options. The instruction portion of the manual consists of Specification, Operation, Maintenance, and Appendix sections. The parts portion consists of the machine Parts, Options, and Electrical Components.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly per the maintenance instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

Parts and supplies may be ordered by phone, mail, or fax. Before ordering parts or supplies, be sure to have your machine model number and serial number handy. Fill out the data block below for future reference.

MACHINE DATA  Please fill out at time of installation.		
Machine Serial Number		
Date Of Installation -		
Manual Number		
Revision Number: 05		
Published: 12-04		

Tennant Company PO Box 1452 Minneapolis, MN 554400

Phone: (800)-533-8033 or (763) 513-2850

www.tennantco.com

#### **SAFETY PRECAUTIONS**

The following symbols are used throughout this manual as indicated in their descriptions:



WARNING: To warn of hazards or unsafe practices which could result in severe personal injury or death.

FOR SAFETY: To identify actions which must be followed for safe operation of equipment.

The following information signals potentially dangerous conditions to the operator or equipment. Read this manual carefully. Know when these conditions can exist. Locate all safety devices on the machine. Then, take necessary steps to train machine operating personnel. Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition.



WARNING: Batteries Emit Hydrogen Gas. Explosion Or Fire Can Result. Keep Sparks And Open Flame Away. Keep Covers Open When Charging.



WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.



WARNING: Machine Moves When Motor Is Running. Stop Motor Before Leaving Machine.

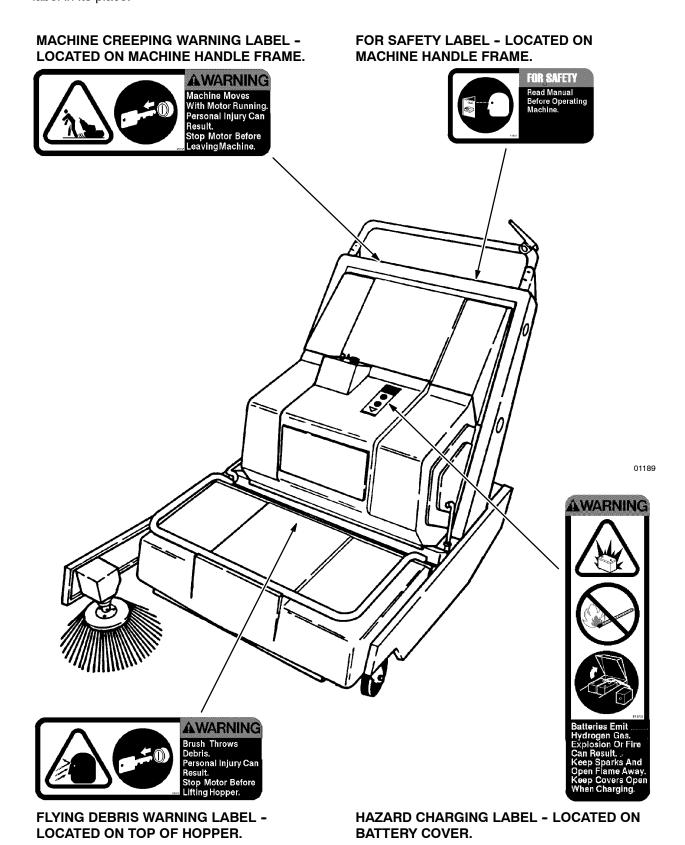
#### FOR SAFETY:

- 1. Do Not Operate Machine:
  - Unless Trained And Authorized.
  - Unless Operation Manual Is Read And Understood.
  - In Flammable Or Explosive Areas Unless Designed For Use In Those Areas.
  - In Areas With Possible Falling Objects Unless Equipped With Overhead Guard.
- 2. Before Starting Machine:
  - Make Sure All Safety Devices Are In Place And Operate Properly.
- 3. When Using Machine:
  - Go Slow On Grades And Slippery Surfaces.
  - Use Care When Backing Machine.
  - Do Not Carry Riders On Machine.
  - Always Follow Safety And Traffic Rules.

- 4. Before Leaving Or Servicing Machine:
  - Stop On Level Surface.
  - Turn Off Machine And Remove Key.
- 5. When Servicing Machine:
  - Avoid Moving Parts. Do Not Wear Loose Jackets, Shirts, Or Sleeves When Working On Machine.
  - Block Machine Tires Before Jacking Machine Up.
  - Jack Machine Up At Designated Locations Only. Block Machine Up With Jack Stands.
  - Use Hoist Or Jack That Will Support The Weight Of The Machine.
  - Wear Eye And Ear Protection When Using Pressurized Air Or Water.
  - Disconnect Battery Connections
    Before Working On Machine.
  - Avoid Contact With Battery Acid.
  - Use Castex/Nobles Supplied Or Equivalent Replacement Parts.
- 6. When Loading/Unloading Machine Onto/Off Truck Or Trailer:
  - Turn Off Machine.
  - Use Truck Or Trailer That Will Support The Weight Of The Machine.
  - Use Winch. Do Not Push The Machine Onto/Off The Truck Or Trailer Unless The Load Height Is 380 mm (15 in) Or Less From The Ground.
  - Block Machine Tires.
  - Tie Machine Down To Truck Or Trailer.

## **GENERAL INFORMATION**

The following safety labels are mounted on the machine in the locations indicated. If these or any label becomes damaged or illegible, install a new label in its place.



# **GENERAL INFORMATION**

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## **MACHINE SPECIFICATIONS**

#### **POWER TYPE**

Electric motor - Nominal voltage 24 VDC, 0.75 hp (0.56 kw) @ 2175 rpm, 29 A Batteries (2) - 12 V, 530 CCA, 105Ah Battery charger - 24 VDC, 15 A output 115 VAC input Battery charger - 24 VDC, 15 A, 115/230 VAC

#### **POWER TRAIN**

Propelling – belt driven Main brush – belt driven Side brush option – belt driven

#### SUSPENSION SYSTEM

Front (2) - 4 x 1.37 caster wheels Rear - 8 x 2 solid tire

# GENERAL MACHINE DIMENSIONS/CAPACITIES

Length - 52 in (1320 mm) Length with side brush - 62 in (1575 mm)

Width - 32 in (815 mm)
Width with side brush - 34.5 in (880 mm)

Height - 40.25 in (1020 mm) Track - 29.75 in (755 mm) Wheelbase - 26.5 in (675 mm)

Main brush diameter - 8 in (205 mm) Main brush length - 28.6 in (725 mm) Side brush diameter - 16 in (405 mm)

Sweeping path width - 29 in (735 mm) Sweeping path width with side brush - 37 in (940 mm)

Hopper capacity – 2.6 cu ft  $(0.07 \text{ m}^3)$ Dust filter area – 49 sq ft  $(4.5 \text{ m}^2)$ 

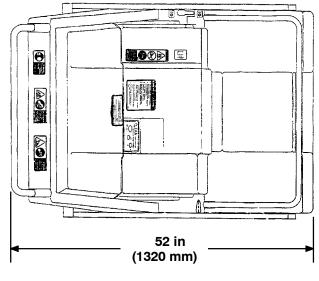
#### **MACHINE WEIGHTS**

GVWR - 435 lb (197 kg) Standard net weight, dry - 310 lb (141 kg)

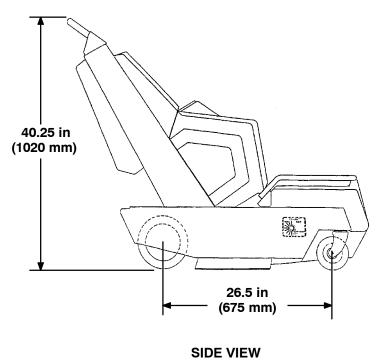
#### **GENERAL MACHINE PERFORMANCE**

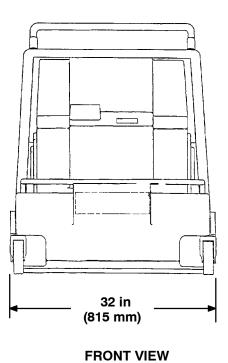
Maximum travel speed - 3 mph (4.8 km/h) Turning radius - 56 in (1420 mm)

## **MACHINE DIMENSIONS**



**TOP VIEW** 





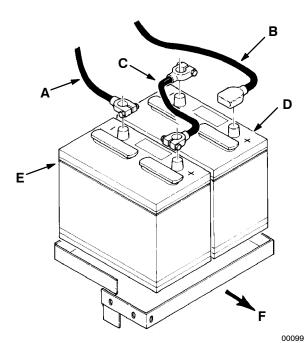
#### PREPARATION FOR OPERATION

After uncrating and before operating the machine:

- 1. Check the machine for shipping damage. Report any damage to the carrier at once.
- 2. Read this manual carefully before operating or servicing this machine.

### FOR SAFETY: Do Not Operate Machine, Unless Operation Manual Is Read And Understood.

- 3. Install the batteries and battery cables if not already done:
  - A. Place the batteries in the machine with the positive (+) posts toward the front of the machine.



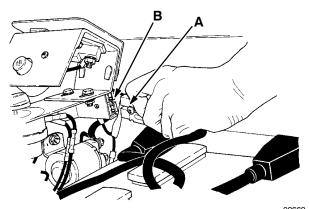
**BATTERY CABLE CONNECTIONS** 

- A. Cable "4"
- B. Cable "3"
- C. Cable "1"
- D. Brush Lift Lever Side Battery
- E. Vacuum Fan Side Battery
- F. Front of Machine
- B. Connect the cable labeled "1" between the positive (+) post on the vacuum fan side battery and the negative (-) post on the brush lift lever side battery.

- C. Connect the cable labeled "3" to the positive (+) post of the brush lift lever side battery.
- D. Connect the cable labeled "4" to the negative (-) post of the vacuum fan side battery.
- Check the state of charge of the batteries as described in BATTERIES in the MAINTENANCE section. Charge the batteries if necessary.

WARNING: Batteries Emit Hydrogen Gas. Explosion Or Fire Can Result. Keep Sparks And Open Flame Away. Keep Covers Open When Charging.

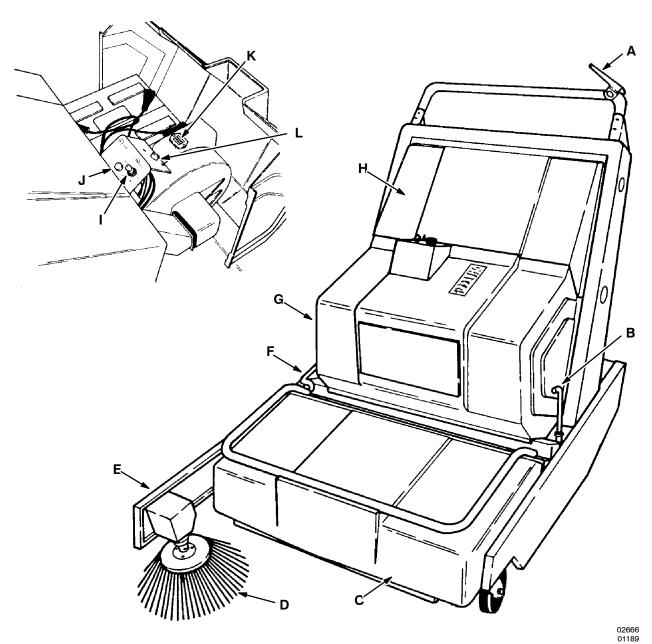
- Install the brushes as described in BRUSHES in the MAINTENANCE section.
- 6. Connect the batteries-to-machine connector.



CONNECTING BATTERIES-TO-MACHINE CONNECTOR

- A. Batteries Connector
- **B. Machine Connector**
- 7. Check the brush pattern(s) as described in BRUSHES in the MAINTENANCE section.

## **OPERATION OF CONTROLS**



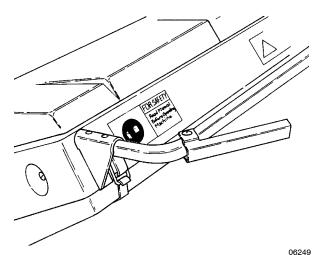
**MACHINE COMPONENTS** 

- A. Clutch Control Handle
- B. Main Brush Lift Handle
- C. Hopper
- D. Side Brush
- E. Side Brush Arm
- F. Main Brush Removal Lever
- G. Battery Cover

- H. Dust Filter Enclosure
- I. Master Power Switch
- J. 15 Amp Resetable Circuit Breaker
- K. Hour Meter
- L. Machine Circuit Breaker

#### **CLUTCH CONTROL HANDLE**

The clutch control handle operates a cable which controls the drive belt idler. To propel the machine forward, press the control handle - engaging the drive belt. To stop the machine, release the control handle - disengaging the drive belt.



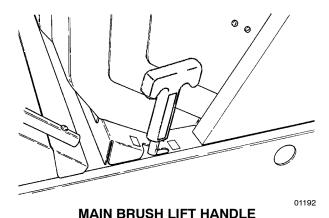
**CLUTCH CONTROL HANDLE** 

#### MAIN BRUSH LIFT HANDLE

The main brush lift handle operates a linkage which controls the height of the main brush.

To lower the main brush, pull the handle up, back, and release into the "lower" position.

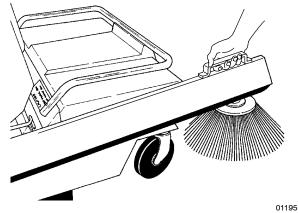
To raise the main brush, pull the handle up and forward into the "raise" position.



SIDE BRUSH

The side brush option gives the machine the added flexibility of sweeping along walls and under edges of tables, desks, etc. It is belt driven. To lower the side brush and start brush rotation, pull the side brush arm up, forward and down into the "operating" position - this engages the drive

To raise the side brush and stop rotation, pull the side brush arm up and back into the "raised" position - this disengages the drive belt.

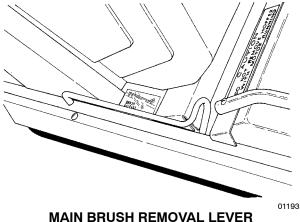


**RAISING SIDE BRUSH** 

#### MAIN BRUSH REMOVAL LEVER

The main brush removal lever controls the main brush spring arm idler plug position. The spring arm secures the main brush in the idler plug. To remove the main brush, lift and pull the lever away from the machine. This disengages the main brush idler plug from the main brush.

To install and secure the main brush in the machine, align the brush slots and idler keys and swing the lever toward the machine, locking it on the machine frame. See MAIN BRUSH in the MAINTENANCE section.

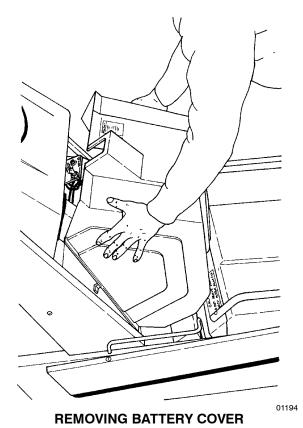


#### **BATTERY COVER**

The battery cover covers the batteries and other electrical components. To tilt the battery cover forward, push the sides of the cover in. To remove or reinstall the battery cover, first remove the hopper. The front of the battery cover has hooks which are inserted in slots in the machine frame. Always have the battery cover in place when operating the machine. Always open the battery cover when charging the machine batteries.



WARNING: Batteries Emit Hydrogen Gas. Explosion Or Fire Can Result. Keep Sparks And Open Flame Away. Keep Covers Open When Charging.



#### **MASTER POWER SWITCH**

The master power switch controls the machine motor. To start the motor, turn the key clockwise into the "on" position. To stop the motor turn the key counterclockwise into the "off" position. Do not leave the machine unattended when the motor is operating.



WARNING: Machine Moves When Motor Is Running. Stop Motor Before Leaving Machine.

#### MACHINE CIRCUIT BREAKER

The machine circuit breaker provides the machine electrical overload protection, excluding the filter shaker motor. It is a 50 A circuit breaker. In the event of a circuit overload, the circuit breaker will trip. To reset the circuit breaker, push the reset button in. If the overload which caused the circuit breaker to trip is still present in the circuit, the circuit breaker will continue to stop current flow until the overload is corrected.

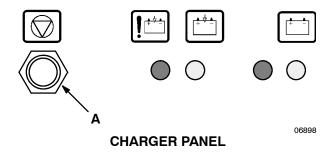
NOTE: A 15 AMP Circuit Breaker provides additional electrical overload protection in the event of a short circuit. Reset by pushing in button.

#### **CHARGER PANEL**

The charger panel indicates battery charging status. The panel is located next to the vacuum fan housing. The panel shows the status of charging after the charger has been plugged into a wall outlet.

The panel also has an interrupt switch to be used if the charging cycle needs to be stopped.

NOTE: If the charge cycle has to be stopped, press the interrupt switch <u>while</u> unplugging the charger.



A. Interrupt Switch

#### **HOUR METER**

The hour meter records the number of hours the machine has been operated. This information is useful in determining when to service the machine.

#### MACHINE OPERATION

#### NORMAL SWEEPING OPERATION

A normal sweeping operation consists of seven typical operations: pre-start checklist, starting machine, sweeping, dumping hopper, post operation checklist – motor operating, stopping machine, and post operation checklist – motor stopped.

THE PRE-START CHECKLIST lists things to check before starting the machine.

TO START MACHINE lists the steps required to start the machine.

TO SWEEP lists things to keep in mind before and during the sweeping operation.

TO DUMP HOPPER lists the steps required to dump the hopper.

POST OPERATION CHECKLIST - Motor Operating lists things to check before stopping the machine motor.

TO STOP MACHINE lists the steps required to stop the machine.

POST OPERATION CHECKLIST - Motor Stopped lists things to check after stopping the machine motor.

#### PRE-START CHECKLIST

Check under machine for leak spots.

Check battery charge level.

Check controls for proper operation.

Check service records to determine service requirements.

FOR SAFETY: Before Starting Machine, Make Sure All Safety Devices Are In Place And Operate Properly.

#### TO START MACHINE

NOTE: Before starting machine, perform the pre-start checks.

- 1. Place the master power switch in the "on" position.
- 2. Drive the machine to the area to be cleaned.

#### TO SWEEP

Plan the sweeping in advance. Try to arrange long runs with minimum stopping and starting. Sweep debris from very narrow aisles into main aisles ahead of time. Do an entire floor or section at one time. Overlap brush paths.

Pick up oversize debris before sweeping. Flatten or remove bulky cartons from aisles before sweeping. Pick up pieces of wire, twine, string, etc., which could become entangled in brush or brush plugs.

Press the clutch handle to place the machine in motion. Release the clutch handle for easier turning. Sweep as straight a path as possible. Avoid bumping into posts or scraping the sides of the sweeper. Empty the debris hopper when it becomes full.

- Place the main brush lift handle in the "lower" position.
- 2. Pull the side brush arm up, forward and down into the "operating" position if present.
- 3. Sweep as required.

NOTE: Do not allow the machine to remain stationary with machine operating and the main brush in the "lower" position as it may cause wear marks on the floor.

## **OPERATION**

#### TO DUMP HOPPER

1. Stop the motor.



# WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- 2. Grasp the hopper handles with both hands.
- 3. Lift and swing the hopper upward to remove the hopper from the machine.



#### REMOVING HOPPER

- 01190
- 4. Dump the debris out of the hopper into suitable refuse container.
- 5. Tip the hopper down and slide it into place on the machine.

# POST OPERATION CHECKLIST - MOTOR OPERATING

Check brush patterns for width and evenness.

#### TO STOP MACHINE

1. When finished sweeping, place the main brush lift handle and the side brush arm in the "raise" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

2. Stop the motor.

# POST OPERATION CHECKLIST - MOTOR STOPPED

Check the batteries state of charge. Charge if needed.

Check skirts for damage, wear, and adjustment.

Check for wire or string tangled on brushes.

12 Scout™ 37B (3-88)

## **MACHINE TROUBLESHOOTING**

Problem	Cause	Remedy		
Poor sweeping performance	Main brush worn out	Replace main brush		
	Main Brush not properly adjusted	Adjust main brush lift handle to obtain correct brush pattern		
	Main Brush not level with floor	Adjust brush pattern		
	Hopper full	Empty hopper		
	Dust filter clogged	Remove and clean dust filter		
	Brush jammed with debris	Remove debris		
	Hopper lip or dust skirt not properly adjusted	Adjust hopper lip or dust skirt		
	Brush drive belts slipping or broken	Adjust or replace belts		
Dusting	Dust filter clogged	Remove and clean filter		
	Filter not seated correctly against its seals	Remove and re-install filter		
	Dust filter damaged	Replace dust filter		
	Hopper full	Empty hopper		
	Clogged ducts	Clean ducts		
	Ducts not engaging seals or seals damaged	Adjust or replace seals		
	Dust skirts not properly adjusted or are damaged	Adjust or replace dust skirts		
	Vacuum fan not operating	Fan drive sheave or impeller key is broken. Check drive belt		
Brush pattern not even	Main brush not lowering evenly due to debris jam	Remove main brush and debris		
	Bail arm not level	Adjust arm position		
	Main brush spring arm may be out of adjustment	Adjust arm position		
	Main brush not seated correctly on drive cups	Remove and re-install main brush		
Machine will not travel	Flat belt broken	Replace belt		
	Oil on flat belt or shaft	Clean belt and sheaves		
	Clutch shaft arm loose or out of adjustment	Adjust arm		
	Clutch cable broken or out of adjustment	Replace or adjust cable		
	Rear drive wheel jammed	Free wheel		
	Motor drive belt broken or slipping	Replace or adjust belt		
Excessive belt wear or breakage	Belt is over-tensioned or under-tensioned, causing slippage	Adjust belt tension		
	Belt sheaves have moved out of adjustment	Align sheaves		
	Belt or sheaves have dirt or oil on them	Clean sheaves and belt		

### **MACHINE STORAGE**

#### **STORING MACHINE**

When storing the machine for extended periods of time, the following procedures must be followed to lessen the chance of rust, sludge, and other deposits from forming:

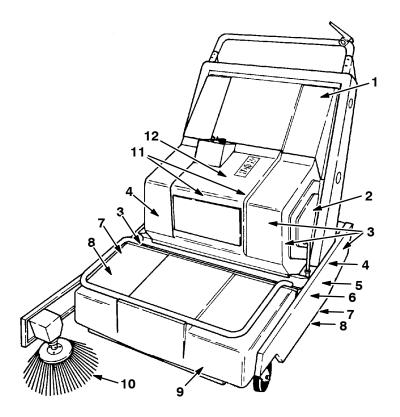
- 1. Place the main brush, and side brush if so equipped, in the "raise" position.
- 2. Empty and clean the debris hopper.
- 3. Charge the machine batteries.
- 4. Disconnect the batteries-to-machine battery connector.

### RECOMMENDED FIRST 20-HOUR MACHINE INSPECTION

After the first 20 hours of operation, perform the following procedures:

- 1. Check the specific gravity of the batteries.
- 2. Check the battery cable connections.
- 3. Check the floor skirts to floor clearance.
- 4. Check the main brush and side brush, if so equipped, brush patterns.

## **MAINTENANCE CHART**



01189

Interval	Key	Description	Procedure	Lubricant/ Fluid	No. of Service Points
Daily	11	Batteries	Check electrolyte level	-	2
	6	Main brush	Check for wear or damage	_	1
	10	Side brush	Check for wear or damage	-	1
	1	Dust filter	Rap clean	-	1
20 Hours	11	Batteries	Check specific gravity	-	2
or Weekly	12	Battery cables	Check for loose or corroded connections	-	3
	6	Main brush	Rotate end-or-end and check brush pattern	-	1
	10	Side brush	Check brush pattern	-	1
80 Hours	11	Batteries	Clean battery tops	-	2
or 4 Weeks	9	Debris hopper	Check floor clearance adjustment	-	1
	1	Dust filter	Clean	-	1
	7	Side dust skirts	Check for wear or damage and adjustment	-	2
	8	Hopper side seals	Check for wear or damage	-	2
	5	Rear brush skirt	Check for wear or damage	-	1
160 Hours or 8 Weeks	3	Drive belts	Check for wear or damage and adjustment	-	1
	2	Static drag chain	Check for wear and floor contact	-	1
	4	Rear guide wheels	Check floor clearance adjustment	-	2

#### **ELECTRICAL SYSTEM**

#### **BATTERIES**

The two 12-volt machine batteries provide all of the energy used by the machine. The standard batteries are rated at 530 CCA. They require regular maintenance to keep them operating their best.

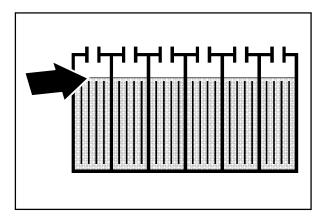
Do not allow batteries to remain in discharged condition for any length of time. Do not operate machine if batteries are in poor condition or discharged beyond 75%, specific gravity below 1.170.

Check the battery cables for loose connections on the battery terminals daily. Inspect the cables for corrosion or damage.

Clean the top surface and the terminals of the batteries after every 80 hours of operation. Use a strong solution of baking soda and water. Brush the solution sparingly over the battery top, terminals, and cable clamps. Do not allow any baking soda solution to enter the battery. Use a wire brush to clean the terminal posts and the cable connectors. After cleaning, apply a coating of clear petroleum jelly to the terminals and the cable connectors. Keep the tops of the batteries clean and dry.

Keep all metallic objects off the top of the batteries, as they may cause a short circuit. Replace worn or damaged wires.

Check the electrolyte level in each battery cell before and after charging, and after every 50 hours of operation. Do not charge the batteries unless the fluid is slightly above the battery plates. If needed, add just enough distilled water to cover the plates. Never add acid to the batteries. Do not overfill. Always keep the battery caps on, except when adding water or taking hydrometer readings.



**BATTERY ELECTROLYTE LEVEL** 

Use a hydrometer to check the electrolyte specific gravity after every 20 hours of operation.

If one or more battery cells tests lower than the other battery cells, (0.050 or more) the cell is damaged, shorted, or is about to fail.

NOTE: Do not take readings immediately after adding water - if the water and acid are not thoroughly mixed, the readings may not be accurate. Check the hydrometer readings against this chart:

SPECIFIC GRAVITY at 80° F (27° C)	BATTERY CONDITION
1.260 - 1.280	100% charged
1.230 - 1.250	75% charged
1.200 - 1.220	50% charged
1.170 - 1.190	25% charged
1.110 - 1.160	Discharged

NOTE: If the readings are taken when the battery electrolyte is any temperature other than 80° F (27° C), the reading must be temperature corrected.

To determine the corrected specific gravity reading when the temperature of the battery electrolyte is other than 80° F (27° C):

Add to the specific gravity reading 0.004, 4 points, for each 10° F (6° C) above 80° F (27° C).

Subtract from the specific gravity reading 0.004, 4 points for each  $10^{\circ}$  F ( $6^{\circ}$  C) below  $80^{\circ}$  F ( $27^{\circ}$  C).

#### **BATTERY CHARGING**

The machine batteries are specifically made for this machine application. They are unique in that they hold their power for long periods of time, but they can only be recharged a certain number of times. To get the most life from the batteries, charge them when 75% of the battery power has been used, so the battery specific gravity is between 1.190 and 1.170.

Do not charge the batteries for more than eight hours. If batteries are not fully discharged, reduce charging time proportionally.

Do not expose the battery charger to water. Do not touch uninsulated battery terminals or unnecessarily expose any portion of your body to the batteries when making electrical connections.

### **MAINTENANCE**

#### TO CHARGE BATTERIES

- Stop the machine on a flat, dry surface next to an electrical outlet.
- 2. Turn off the master power switch.

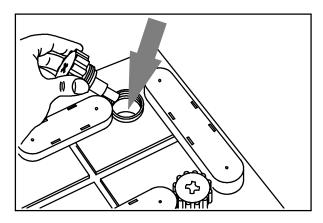
# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

Lift the battery cover into the "open" position.



WARNING: Batteries Emit Hydrogen Gas. Explosion Or Fire Can Result. Keep Sparks And Open Flame Away. Keep Covers Open When Charging.

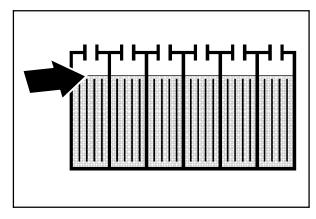
4. Check the water level in the batteries.



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#### **CHECK ELECTROLYTE LEVEL**

If the water level is low, add just enough distilled water to cover the plates. DO NOT OVERFILL. The battery can overflow during charging due to expansion.



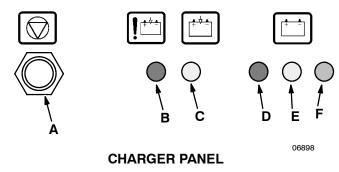
**BATTERY ELECTROLYTE LEVEL** 

# FOR SAFETY: When Servicing Machine, Avoid Contact With Battery Acid.

 Plug the battery charger into an AC wall outlet. The charger will go through a self diagnostic check. All the indicator lamps on the charger panel will flash showing the diagnostic check is in progress.

NOTE: If the red no charge indicator lamp lights when the charger is plugged into a wall outlet, the charger can not charge the battery, meaning there is something wrong with the battery.

When the lamps stop flashing, the *red* incomplete battery status indicator lamp lights. After a short delay, the *yellow charger* on indicator lamp lights showing the charger has turned on.



- A. Interrupt Switch
- B. Red No Charge Indicator Lamp
- C. Yellow Charger On Indicator Lamp
- D. Red Incomplete Battery Status Indicator Lamp
- E. Yellow 80% Charge Indicator Lamp
- F. Green Complete Charge Indicator Lamp

As the battery charges, the *red incomplete* battery status indicator lamp goes out and the *yellow 80%* charge indicator lamp lights.

Finally the *yellow 80% charge indicator lamp* goes out and the green complete charge indicator lamp lights showing the battery is completely charged. After a short time, the *yellow charger on indicator lamp* goes out showing the charger has turned off.

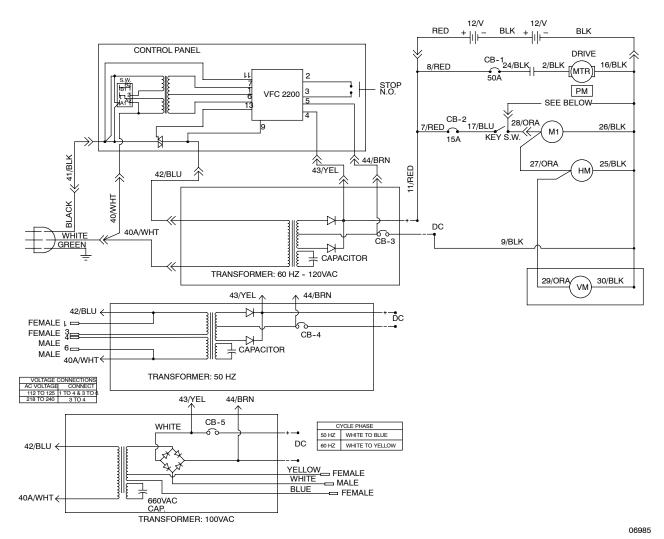
The green complete charge indicator lamp will remain on until the charger is unplugged from the wall outlet.

NOTE: If the charge cycle has to be stopped, press the interrupt switch <u>while</u> unplugging the charger from the wall outlet.

- 6. Unplug the charger from the wall outlet.
- 7. Check the electrolyte level in each battery cell after charging. If needed, add distilled water to raise the electrolyte level to about 12 mm (0.4 in) below the bottom of the sight tubes.

8. Close the battery cover.

#### **ELECTRICAL SCHEMATIC**



#### **BRUSHES**

#### **MAIN BRUSH**

The main brush is tubular and spans the width of the machine. It sweeps debris into the hopper. It should be inspected daily for wear or damage. Remove any string or wire found tangled on the main brush, main brush drive hub, or main brush idler hub.

The main brush pattern should be checked after every 20 hours of operation. The main brush pattern should be approximately 1.5 in (40 mm) wide when sweeping hard floors and 0.5 in (15 mm) when sweeping carpeted floors. Check the main brush pattern only on hard floors with the main brush in the lowered position. Main brush pattern adjustments are made by rotating the main brush lift handle. Use the carpet brush on carpets for better performance and brush life.

Rotate the brush after every 20 hours of operation for maximum brush life. The main brush should be replaced when the remaining brush bristle measures 1.25 in (30 mm).

#### TO REMOVE MAIN BRUSH

 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Disconnect the batteries-to-machine connector.
- 3. Lift the hopper up and out of the machine.

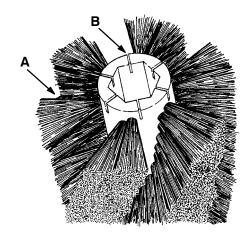


# WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- 4. Pull the main brush removal lever away from the machine to disengage the main brush idler plug from the main brush.
- Grasp the main brush and pull it off the main brush drive plug and out of the main brush compartment.

#### TO INSTALL MAIN BRUSH

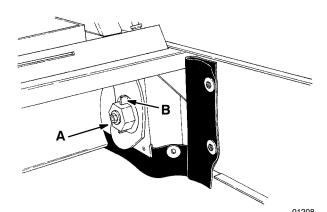
- 1. Pull the main brush removal lever away from the machine.
- 2. Line up one of the slotted ends of the main brush with the drive plug drive keys.



MAIN BRUSH DRIVE SLOTS

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- A. Main Brush
- **B.** Drive Slot

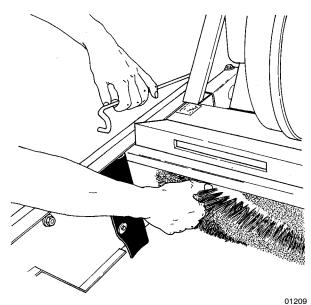


MAIN BRUSH DRIVE PLUG DRIVE KEYS

- A. Drive Plug
- B. Drive Key

### **MAINTENANCE**

3. Fit one end of the main brush over the main brush drive plug.



#### **INSTALLING MAIN BRUSH**

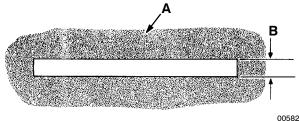
- 4. Position the other end of the main brush over the main brush idler plug.
- 5. Push and lock the main brush removal lever into place on the machine frame to secure the main brush.
- 6. Check and adjust the main brush pattern as described in TO CHECK AND ADJUST MAIN BRUSH PATTERN.
- 7. Reconnect the batteries-to-machine connector.

# TO CHECK AND ADJUST MAIN BRUSH PATTERN

- 1. Place the machine over a hard floor.
- 2. Place the master power switch in the "on" position.
- Place the main brush lift handle in the "lower" position to lower the main brush to the floor for one minute while holding the machine in one place.
- 4. Pull the main brush lift handle up and forward to raise the main brush.
- 5. Move the machine away from the main brush polish mark.
- 6. Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

 Observe the width of the polish mark. The proper polish width is 1.5 in (40 mm) for hard floors and 0.5 in (15 mm) for carpet floors.



### MAIN BRUSH PATTERN

- A. Main Brush Pattern
- B. Polish Width

If the polish mark width is too wide, turn the main brush lift handle clockwise to raise the brush.

If the polish mark width is too narrow, turn the main brush lift handle counterclockwise to lower the brush.

If any adjustments are made, recheck the main brush pattern before resuming work with the machine.

#### SIDE BRUSH

The side brush sweeps debris from walls or curbs into the path of the main brush. It should be inspected daily for wear or damage. Remove any string or wire found tangled on the side brush or side brush drive hub.

The side brush adjustment should be checked after every 20 hours of operation. The side brush is properly adjusted when, with the side brush arm in the "raised" position, there is approximately 1 in (25 mm) of space between the floor and the side brush bristles.

Side brush adjustments are made by mounting the side brush in a different one of the five mounting holes in the side brush drive shaft.

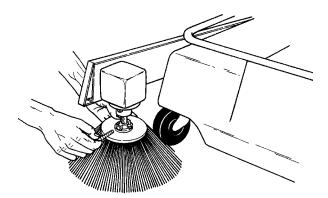
The side brush should be replaced when the remaining brush bristle measures 1 in (25 mm) in length.

#### TO REMOVE SIDE BRUSH

 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Pull the side brush arm up and back to raise the side brush.
- Remove the side brush retaining bolt or hair cotter pin.



### REMOVING SIDE BRUSH RETAINING BOLT

Slide the side brush off the side brush drive shaft.

#### TO INSTALL SIDE BRUSH

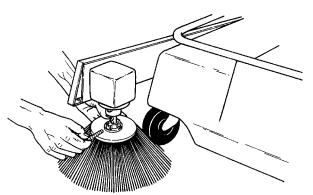
- Slide the side brush onto the side brush drive shaft.
- 2. Fasten the side brush to the shaft with the retaining bolt or hair cotter pin.
- 3. Check the side brush adjustment as described in *TO ADJUST SIDE BRUSH*.

#### TO ADJUST SIDE BRUSH

1. Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Pull the side brush arm up and back to put the side brush in the "raised" position.
- 3. Remove the side brush retaining bolt or hair cotter pin.
- Slide the side brush up or down on the shaft until there is approximately 1 in (25 mm) of space between the floor and the side brush bristles.



#### **ADJUSTING SIDE BRUSH HEIGHT**

01027

- 5. Line up the side brush and drive shaft holes to allow the side brush to be nearest to the specified dimension.
- 6. Secure the side brush to the drive shaft with the retaining bolt or hair cotter pin.

#### **DEBRIS HOPPER AND DUST FILTER**

#### **DEBRIS HOPPER**

The debris hopper collects debris swept up by the main brush. It should be emptied after every work shift.

The hopper floor clearance should be checked and adjusted, if necessary, after every 80 hours of operation.

#### TO EMPTY HOPPER

 Place the master power switch in the "off" position.



# WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- 2. Grasp the hopper handles with both hands.
- 3..Lift and swing the hopper upward to remove the hopper from the machine.



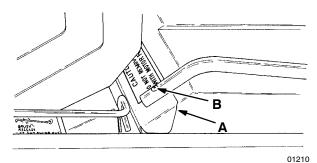
- 4. Dump the debris out of the hopper into suitable refuse container.
- 5. Tip the hopper down and slide it into place on the machine.

#### TO ADJUST HOPPER FLOOR CLEARANCE

- 1. Empty the hopper
- 2. Stop the machine on a smooth level floor.
- 3. Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

4. Loosen the three hopper top seal retainer bolts on the hopper.



#### **HOPPER TOP SEAL RETAINER**

- 0.12
- A. Hopper Top Seal Retainer
- **B.** Retainer Bolt
- 5. Place two 0.38 to 0.5 in (10 to 15 mm) blocks on the floor under the hopper wear plate.
- 6. Slide the hopper top seal retainer up or down so that the retainer just touches the machine frame.
- 7. Tighten the hopper top seal retainer bolts.
- 8. Remove the blocks from under the hopper wear plate.

#### **REAR GUIDE WHEELS**

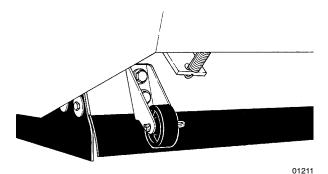
The rear guide wheels prevent the rear of the machine from tipping. They are located just behind the main brush shroud. Check the floor clearance after every 160 hours of operation. They should clear the floor by 0.38 in (10 mm).

#### TO ADJUST REAR GUIDE WHEELS

 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Loosen the two bolts holding each of the rear guide wheels in place.
- 3. Slide the guide wheels up or down so that they clear the floor by 0.38 in (10 mm).



**REAR GUIDE WHEEL** 

4. Tighten the two bolts on each guide wheel.

#### **HOPPER DUST FILTER**

The hopper dust filter is located inside the dust filter compartment. The dust filter filters the air which is drawn up from the main brush compartment. Rap on the front filter housing with a fist daily to shake the excess dust from the filter. Clean the filter after every 3 hours of operation.

Use one of the following methods to clean the dust filter:

- Tapping Tap the filter gently on a flat surface with the dirty side down. Do not damage the edges of the filter element or the filter will not seat properly in the filter frame.
- Air Blow compressed air, 40 psi (275 kPa) maximum, through the dust filter opposite the direction of the arrows.
- Water Soak the dust filter in a water and mild detergent solution. Rinse the dust filter until it is clean. The maximum water pressure allowable is 40 psi (275 kPa). Air dry the wet dust filter; do not use compressed air.

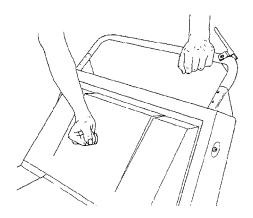
NOTE: Be sure the dust filter is dry before reinstalling it in the machine.

#### TO REMOVE DUST FILTER

 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

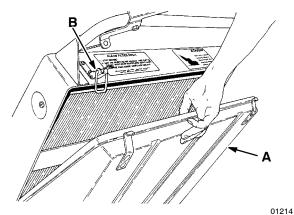
Rap on the front filter housing with a fist to shake the excess dust from the dust filter.



**RAPPING FILTER HOUSING** 

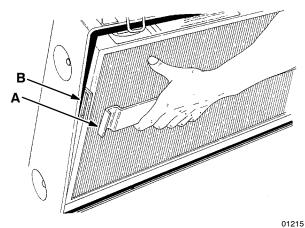
## **MAINTENANCE**

Unlatch the two filter cover latches and lower the rear filter cover.



LOWERING REAR FILTER COVER

- A. Rear Filter Cover
- **B. Filter Cover Latch**
- 4. Slide the filter retention bar up and out of the slotted retention brackets.

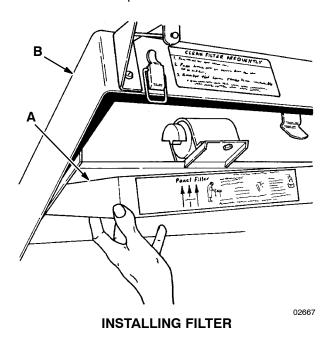


REMOVING FILTER RETENTION BAR

- A. Filter Retention Bar
- **B. Retention Bracket**
- 5. Push the filter retention spring upward and slide the filter out of the filter compartment.

#### TO INSTALL DUST FILTER

1. Push the filter retention spring upward and slide the filter into place on the filter base in the filter compartment.



A. Filter
B. Filter Housing

NOTE: Make sure the arrows on the filter are pointing to the front of the machine.

- 2. Release the filter retention spring.
- 3. Slide the filter retention bar down into the slotted retention brackets.
- 4. Lift the rear filter cover back into the "operating" position.
- 5. Latch the two filter cover latches.

### **SKIRTS AND SEALS**

#### SIDE DUST SKIRTS

A dust skirt is located on each side of the brush compartment. They control main brush dusting. The dust skirts should be inspected for wear or damage and adjustment after every 80 hours of operation.

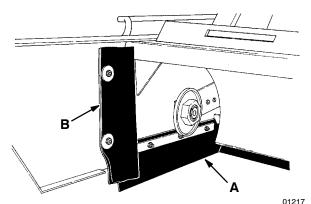
#### TO ADJUST SIDE DUST SKIRTS

1. Place the master power switch in the "off" position.



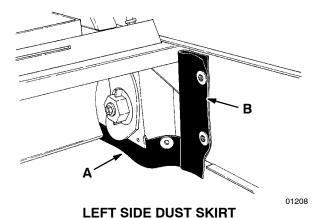
### WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- 2. Grasp the hopper handles; lift and swing the hopper up and out of the machine.
- 3. Loosen the side dust skirts retaining bolts.



**RIGHT SIDE DUST SKIRT** 

A. Side Dust Skirt **B. Side Dust Seal** 



- A. Side Dust Skirt
- B. Side Dust Seal

- 4. Slide the side dust skirts up or down so there is 0.03 to 0.25 in (1 to 5 mm) clearance between the floor and the bottom of the skirt.
- 5. Tighten the skirt retaining bolts.
- 6. Reinstall the hopper.

#### TO REPLACE SIDE DUST SKIRTS

1. Place the master power switch in the "off" position.

### WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- 2. Grasp the hopper handles; lift and swing the hopper up and out of the machine.
- 3. Remove the side dust skirts retaining bolts and strips.
- 4. Remove the side dust skirts.
- 5. Position the new side dust skirts on the machine so there will be floor clearance of 0.03 to 0.25 in (1 to 5 mm).
- 6. Install and tighten the skirt retaining strips and bolts.
- 7. Reinstall the hopper.

## **MAINTENANCE**

#### **HOPPER SIDE SEALS**

A seal is located on each side of the machine frame to seal the sides of the hopper. The seals should be checked for wear or damage after every 80 hours of operation.

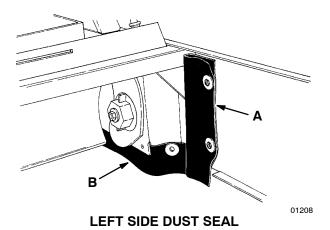
#### TO REPLACE HOPPER SIDE SEALS

 Place the master power switch in the "off" position.



# WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- 2. Grasp the hopper handles; lift and swing the hopper up and out of the machine.
- 3. Remove the two side seal retaining bolts.



- A. Side Dust Seal B. Side Dust Skirt
- 4. Remove the side seal retaining strip and side seal.
- 5. Fold new side seal so the mounting holes line up.
- 6. Slide the retaining bolts through the retaining strip, the side seal, and into the machine.
- 7. Tighten the seal retaining bolts.

#### **REAR BRUSH SKIRT**

A dust skirt is located behind the main brush to control dusting. It should be checked for wear or damage after every 80 hours of operation.

#### TO REPLACE REAR BRUSH SKIRT

 Place the master power switch in the "off" position.

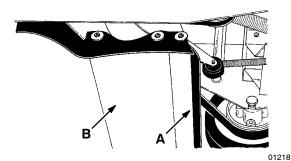


# WARNING: Brush Throws Debris. Stop Motor Before Lifting Hopper.

- Remove the debris hopper and battery cover.
- 3. Disconnect the batteries-to-machine connector.

FOR SAFETY: When Servicing Machine; Disconnect Battery Connections Before Working On Machine, And Avoid Contact With Battery Acid.

- 4. Remove the batteries from the machine.
- 5. Carefully tip the machine onto its side.
- 6. Remove the bottom bolts from each of the rear guide wheel brackets.
- 7. Remove the single bolt between the two rear guide wheel brackets.



**REAR BRUSH SKIRT** 

- A. Rear Brush Skirt
- B. Brush Baffle
- 8. Pull the rear brush skirt and brush baffle out of the machine.
- 9. Position the new rear skirt and brush baffle on the machine.
- Secure the rear skirt and brush baffle to the machine with the three bolts removed earlier.
- 11. Carefully tip the machine back into the "operating" position.
- 12. Reinstall the batteries. Reconnect the batteries-to-machine connector.
- Replace the debris hopper and battery cover.

#### **BELTS AND CHAINS**

#### **FLAT PROPELLING BELT**

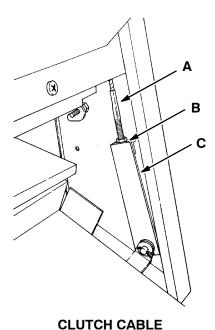
The flat propelling belt transfers power from the motor jackshaft to the drive wheel. Check the belt for wear after every 80 hours of operation. Check the belt tension after every 160 hours of operation.

# TO CHECK AND ADJUST FLAT PROPELLING BELT

- 1. Place the master power switch in the "on" position.
- Press the clutch handle. The machine should pull forward just before the clutch handle touches the machine stationary handle. If it does not, adjust as follows:
  - A. Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

B. Loosen the clutch cable jam nut.



- A. Clutch Cable
- B. Jam Nut
- C. Clutch Cable Bracket
- C. Loosen clutch cable to relieve belt tension. Thread the clutch cable into the cable bracket to tighten belt tension.

- D. Tighten the clutch cable jam nut to the cable bracket.
- E. Place the master power switch in the "on" position. The machine should not creep or move unless the clutch handle is fully pressed to the machine handle. If the machine moves before the clutch handle is fully pressed, the drive belt will be excessively stressed. Readjust the cable as necessary.

#### TO REPLACE FLAT PROPELLING BELT

1. Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Remove debris hopper and battery cover.
- Disconnect the batteries-to-machine connector.

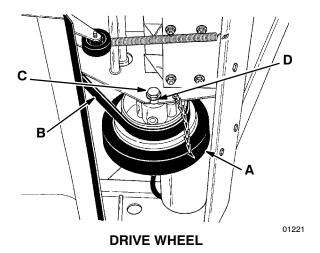
# FOR SAFETY: When Servicing Machine, Disconnect Battery Connections Before Working On Machine.

- 4. Remove the batteries from the machine.
- 5. Loosen the clutch cable jam nut.
- Thread the clutch cable almost out of the cable bracket.
- 7. Carefully tip the machine on its side.
- 8. Remove the drive wheel retaining bolt. Take note of bolt spacer positions.

Scout<sup>™</sup> 37B (3-01)

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## **MAINTENANCE**



- A. Drive Wheel
- **B. Flat Propelling Belt**
- C. Retaining Bolt
- D. Spacer
- Slide the flat propelling belt off the drive wheel.
- 10. Remove the drive wheel.
- 11. Remove the flat propelling belt.
- 12. Slide new flat propelling belt over the belt idler pulley.
- 13. Position flat propelling belt over the pulley portion of the drive wheel and slide drive wheel into position in machine.
- 14. Slide the drive wheel retaining bolt through the frame cutout, the drive wheel, and the other side frame cutout.

NOTE: Make sure drive wheel spacers removed earlier are placed in the same positions.

- 15. Thread the retaining nut onto the retaining bolt and tighten.
- 16. Carefully tip the machine back into the "operating" position.
- 17. Reinstall the batteries in the machine.
- Reconnect the batteries-to-machine connector.
- 19. Replace the debris hopper and battery cover.
- 20. Adjust the clutch cable as described in *TO ADJUST FLAT PROPELLING BELT*.

#### MOTOR DRIVE BELT

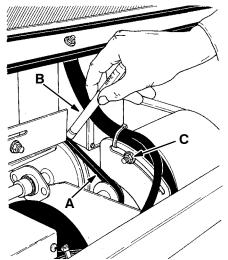
The motor drive belt transfers power from the electric motor to the vacuum fan and the motor jackshaft. Check the belt for wear after every 80 hours of operation. Check the belt tension after every 160 hours of operation.

#### TO CHECK AND ADJUST MOTOR DRIVE BELT

 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine, Stop On Level Surface, Turn Off Machine And Remove Key.

- 2. Unlatch and remove the rear filter cover.
- 3. Remove the rear shroud.
- 4. Check the motor drive belt deflection on the span between the motor sheave and the vacuum fan sheave. Proper belt deflection is 0.25 in (5 mm) from a force of 5 to 9 lb (2.3 to 4 kg). Burrough's Tensiometer reading – 55. If the belt does not deflect the proper amount, adjust as follows.



# CHECKING MOTOR DRIVE BELT DEFLECTION

01222

- A. Motor Drive Belt
- **B. Belt Tension Gauge**
- C. Motor Mounting Nut
- 5. Loosen the electric motor mounting nuts.
- 6. Pull the motor back to tighten the belt. Do not pry on the motor.
- 7. Tighten the electric motor mounting bolts.

- 8. Recheck the belt tension, readjust as necessary.
- 9. Reinstall the rear shroud and rear filter cover.

#### TO REPLACE MOTOR DRIVE BELT

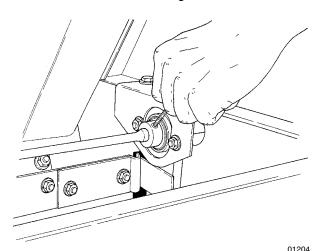
 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Unlatch and remove the rear filter cover.
- 3. Remove the rear shroud and battery cover.
- 4. Loosen the electric motor mounting nuts.
- Pivot motor forward to loosen the existing drive belt.

NOTE: For machines equipped with a side brush:

A. Loosen the locking collar setscrew.



## LOOSENING LOCKING COLLAR SETSCREW

B. Unthread and separate the jackshaft extension from the jackshaft enough to slide the drive belt through. Also note that the jackshaft extension is threaded onto the jackshaft with left hand threads.

- 6. Remove existing drive belt.
- 7. Position new drive belt over vacuum fan sheave, large diameter sheave, and motor sheave.

NOTE: For machines equipped with a side brush:

- A. Reconnect and tighten the jackshaft extension to the jackshaft. Remember the jackshaft extension is threaded onto the jackshaft with left hand threads.
- B. Reposition the jackshaft extension support bearing locking collar and tighten its setscrews.
- 8. Set the motor drive belt tension as described in *TO CHECK AND ADJUST MOTOR DRIVE BELT*.
- 9. Reinstall the rear shroud and battery cover.
- 10. Replace the rear filter cover.

## **MAINTENANCE**

#### **BRUSH DRIVE BELT**

The brush drive belt transfers power from the motor jackshaft to the brush drive plug. Check the belt for wear after every 80 hours of operation. There is no tension adjustment as it is controlled by a belt idler and spring arrangement.

#### TO REPLACE BRUSH DRIVE BELT

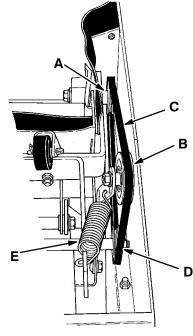
 Place the master power switch in the "off" position.

# FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Remove the debris hopper and battery cover.
- Disconnect the batteries-to-machine connector.

# FOR SAFETY: When Servicing Machine, Disconnect Battery Connections Before Working On Machine.

- 4. Remove the batteries from the machine.
- 5. Carefully tip the machine on its right side.
- 6. Disconnect the belt idler spring from the spring bracket.



BRUSH DRIVE BELT

- A. Brush Drive Sheave
- **B. Belt Idler Sheave**
- C. Brush Drive Belt
- D. Motor Jackshaft Sheave
- E. Belt Idler Spring
- Slide the belt off the jackshaft sheave, the brush drive sheave, and out of the machine.

NOTE: A small amount of force from a blunt instrument may be required to get the belt over the end of the jackshaft.

- 8. Slide the new belt over the end of the jackshaft and into position on the three sheaves.
- Reconnect the belt idler spring to the spring bracket.
- Carefully tip the machine into the "operating" position.
- 11. Reinstall the batteries.
- Reconnect the batteries-to-machine connector.
- Replace the debris hopper and the battery cover.

#### SIDE BRUSH DRIVE BELT

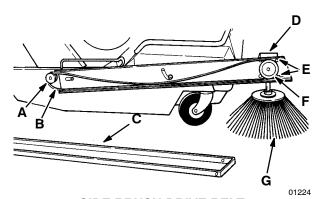
The side brush drive belt transfers power from the iackshaft extension to the side brush gear box. Check the belt for wear after every 80 hours of operation. Adjust the drive belt tension after every 160 hours of operation.

#### TO ADJUST SIDE BRUSH DRIVE BELT

1. Place the master power switch in the "off" position.

## FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Kev.

- 2. Place the side brush arm in the "operating" position.
- 3. Remove the five side brush arm cover bolts.
- 4. Remove the side brush arm cover.
- 5. Loosen the four gearbox mounting bolts.



- SIDE BRUSH DRIVE BELT
- A. Jackshaft Extension Sheave
- B. Side Brush Drive Belt
- C. Side Brush Arm Cover
- D. Gearbox
- E. Gearbox Mounting Bolts
- F. Gearbox Sheave
- G. Side Brush
- 6. Slide the gearbox forward to increase belt tension. Slide the gearbox back to decrease belt tension.
- 7. When belt appears tight, tighten the four gearbox mounting bolts.
- 8. Replace the side brush arm cover.
- 9. Place the master power switch in the "on" position and check side brush operation. Readjust the drive belt as necessary.

#### TO REPLACE SIDE BRUSH DRIVE BELT

1. Place the master power switch in the "off" position.

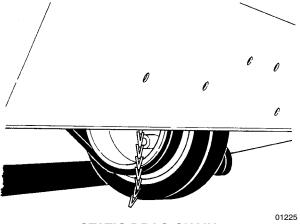
### FOR SAFETY: Before Leaving Or Servicing Machine; Stop On Level Surface, And Turn Off Machine And Remove Key.

- 2. Place the side brush arm in the "raised" position.
- Remove the five side brush arm cover bolts.
- 4. Remove the side brush arm cover.
- 5. Loosen the four gearbox mounting bolts.
- 6. Slide the gearbox back, toward the machine.
- 7. Remove the old drive belt.
- 8. Position new drive belt over the jackshaft extension sheave and the gearbox sheave.
- 9. Adjust the side brush drive belt tension as described in TO ADJUST SIDE BRUSH DRIVE BELT.

#### STATIC DRAG CHAIN

A static drag chain is provided to prevent the buildup of static electricity in the machine. The chain is attached near the rear of the machine.

Check the chain for wear after every 160 hours of operation. Make sure the chain is making contact with the floor at all times.



STATIC DRAG CHAIN

#### **PUSHING AND TRANSPORTING THE MACHINE**

#### **PUSHING THE MACHINE**

If the machine becomes disabled, it can be easily pushed in neutral if necessary.

#### TRANSPORTING THE MACHINE

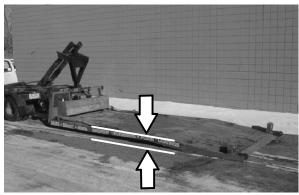
1. Position the front of the machine at the loading edge of the truck or trailer.

FOR SAFETY: Use Truck Or Trailer That Will Support The Weight Of The Machine.

NOTE: Empty the hopper before transporting the machine.

2. If the loading surface is not horizontal or is higher than 380 mm (15 in) from the ground, use a winch to load machine.

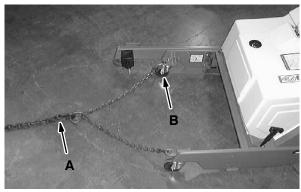
If the loading surface is horizontal AND is 380 mm (15 in) or less from the ground, the machine may be pushed onto the truck or trailer.



**LOADING SURFACE** 

### A. Loading Surface Height

To winch the machine onto the truck or trailer, remove the hopper and attach the winching chains to the top of the front casters. Make sure the machine is centered.

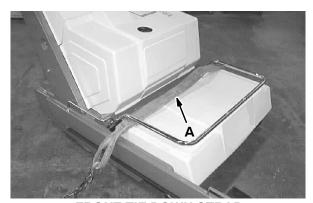


**ATTACH WINCHING CHAIN** 

A. Winching Chain B. Front Caster

FOR SAFETY: When Loading Machine Onto Truck Or Trailer, Use Winch. Do Not Push The Machine Onto The Truck Or Trailer Unless The Loading Surface Is Horizontal AND Is 380 mm (15 in) Or Less From The Ground.

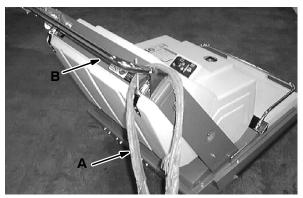
- 4. Position the machine onto the truck or trailer as far as possible. If the machine starts to veer off the centerline of the truck or trailer, stop and center the machine.
- Block the machine tires. Tie down the machine to the truck or trailer before transporting.
- 6. Secure the front of the machine by wrapping a strap around the hopper and fastening it to the truck or trailer.



FRONT TIE DOWN STRAP

A. Front Tie Strap

7. Secure the rear of the machine by wrapping straps around each end of the the handle and fastening them to the truck or trailer.



**REAR TIE DOWN STRAP** 

- A. Rear Tie Down Strap
- B. Handle
- 8. If the loading surface is not horizontal or is higher than 380 mm (15 in) from the ground, use a winch to unload machine.

If the loading surface is horizontal AND is 380 mm (15 in) or less from the ground, the machine may be pushed off the truck or trailer.

FOR SAFETY: When Unloading Machine Off Truck Or Trailer, Use Winch. Do Not Push The Machine Off The Truck Or Trailer Unless The Loading Surface Is Horizontal AND Is 380 mm (15 in) Or Less From The Ground.

## MAINTENANCE

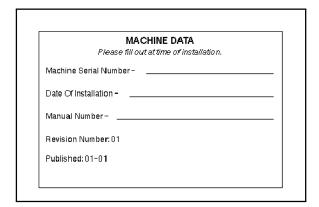
#### **HOW TO USE THIS MANUAL**

This section on *HOW TO USE THIS MANUAL* will tell you how to:

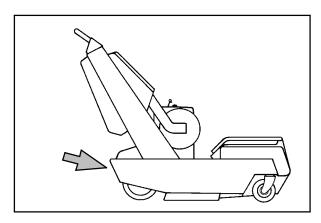
- Find important machine information for ordering correct repair parts.
- Find part numbers.
- Order parts and supplies.

#### **IMPORTANT INFORMATION**

When placing an order for parts, the machine model and machine serial number are important. Refer to the *MACHINE DATA* box which is filled out during the installation of your machine. The *MACHINE DATA* box is located on the inside of the front cover of this manual.



The serial number of your machine is printed on the machine data plate located as shown.

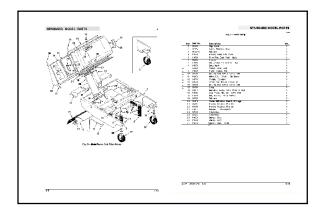


#### FINDING A PART NUMBER

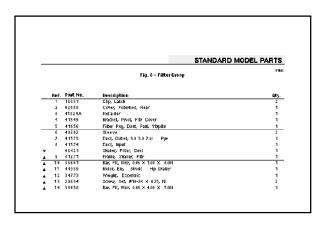
The STANDARD PARTS section lists repair parts for standard machines. They are grouped in this general order:

- How to use this manual.
- General wear parts.
- Machine frame and related parts.
- Machine propelling system.
- Scrubbing components.
- Electrical parts.

All sections in this manual consist of parts illustrations and corresponding parts lists.



The parts illustrations are numbered with *Ref* numbers which refer to corresponding parts lists.



### STANDARD MODEL PARTS

The parts lists include a number of columns of information:

- Ref column refers to the reference number on the parts illustration.
  - $\nabla$  indicates the part is an assembly.
  - ▲ indicates the part is included in the assembly listed just before it.
- Part No. column lists the part number for the part.
- Description column is a brief description of the part.
- Qty. column lists the quantity of that part used in that area of the machine.

NOTE: If a service kit is installed on your machine, be sure to keep the INSTRUCTION BULLETIN which came with the kit. It contains repair parts numbers needed for ordering future parts.

NOTE: Fasteners used in this machine may be metric or non-metric. Take care when replacing hardware to replace with same thread size.

#### **PLACING AN ORDER**

Orders may be placed by phone, fax, or by mail. Phone orders may need written confirmation. Follow the steps below to insure prompt delivery:

- 1. Identify the model number of your machine.
- 2. Identify the serial number of your machine.
- Find the part number of the part you need.
   Do not order by page number or reference number. If you are not able to find the part number, call your Castex/Nobles representative for help or send the old part as a sample.
- 4. Determine the quantity of the part you need.
- 5. Provide the following company information:
  - Company name
  - Customer ID Number
  - Shipping address
  - Billing address
  - First and last name of person ordering parts
  - Telephone number
  - Purchase order number
- 6. Provide definitive shipping instructions.

Any claim for loss or damage to a shipment in transit should be filed promptly with the transportation company making the delivery. Shipments will be complete unless the packing list or order acknowledgement indicates items back ordered.

If parts received are suspected to be incorrect or defective, please contact the Castex/Nobles representative from whom you ordered the part. They will give authorization for return and/or handle replacement shipments when required.

Fig. 1 - Recommended General Maintenance Items

1037206AM	

	Ref. Part No.	Description	Qty.
$\Delta$	59455	Replmt.Parts Pkg	1
$\blacktriangle$	<del>41656</del>	Filter Pkg, Dust, Panl, 119plts	1
<b>A</b>	32862	Belt, V, [3vx] 28.0l	1
<b>A</b>	23243	Belt, V, [3I] 36.0I	1
<b>A</b>	23279	Belt, V	1
$\blacksquare$	09944	Skirt	2
<b>A</b>	41563	Skirt, .06th, 10.00w 30.00l, 06/0.31h	1
<b>A</b>	41396	Skirt	2
•	09944	Skirt	1
•	16232	Skirt	1
<b>A</b>	16230	Skirt	1
•	01847	Wheel, 1.6d 0.72w 0.21b	2
⊽ [0	41678	Belt, V, [3I] 80.0I	1
	47037	Adhesive, Contact, [1357 5.0oz]	1
	41858 02592	Seal, Rbr, Open, 0.19th, 0.62w 04.6l	2
<u> </u>	41838	Gasket, Duct, Output	1
<b>A</b>	41837	Hinge, Pyp, .06 2.0 W 03.3l 4/0.34h	1
<b>A</b>	41840	Gasket, Duct	2
<b>A</b>	60378	Seal, Rbr, Open, 0.19th, 0.62w	1
$\Delta$	03973	Kit, Maint, Skirt, Gas	1
<b>A</b>	16232	Skirt	1
•	41396	Skirt	2
<b>A</b>	61088	Washer, 0.19b 1.00d .06, Stl, Pl	10
<b>A</b>	16230	Skirt	1
•	09944	Skirt	1
_	61110	Nut, U, .25-20	3
<u> </u>	09944	Skirt	1
_	41563	Skirt, .06th, 10.00w 30.00l, 06/0.31h	1

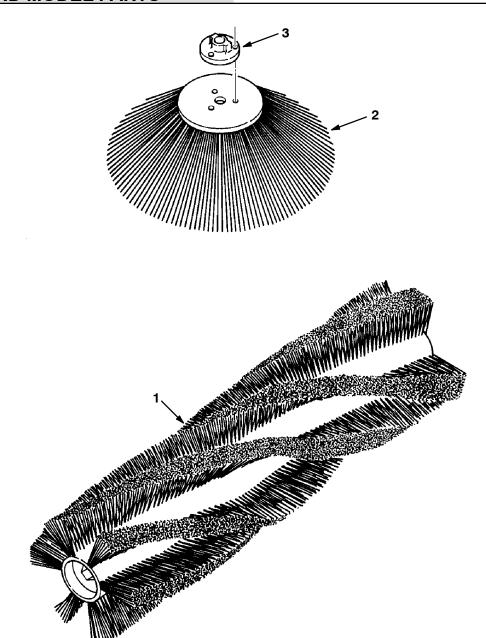


Fig. 2 - Replacement Brushes

# STANDARD MODEL PARTS

01186

## Fig. 2 - Replacement Brushes

	Ref.	Part No.	Description	Qty.
	1	60341	Brush, Swp, 28l, 6 Dr, Pyp - All Purpose (Option)	1
	1	60340 32856	Brush, Swp, 28l, 12 Sr, Umx Carpet (Standard)	1
$\Delta$	2	41673	Brush Assy, Disk, Swp, 13.0 D, Pyp	1
<b>A</b>	3	28013B	Adaptor, Brush, Side, .628b	1

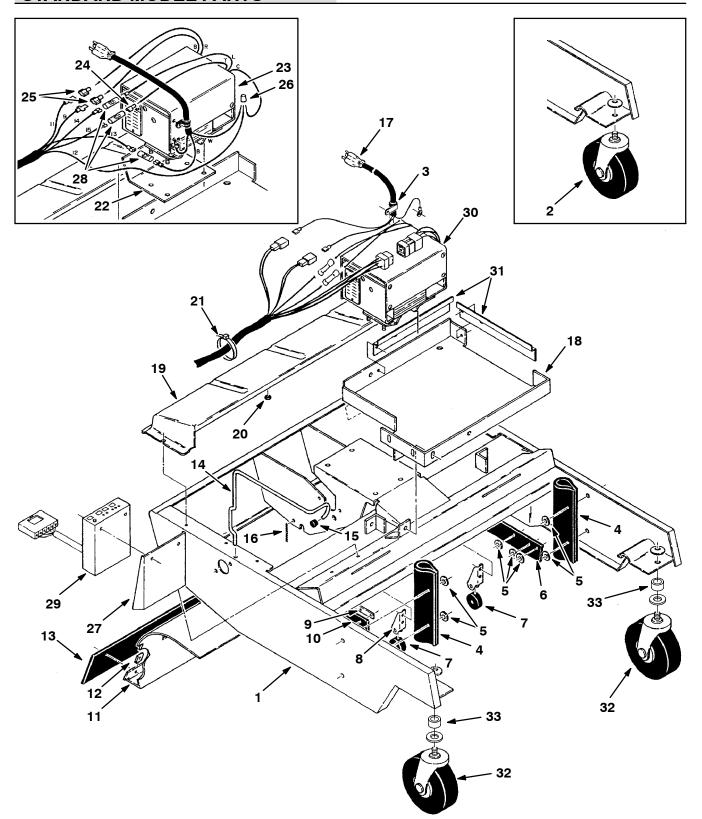


Fig. 3 - Main Frame and Charger Group

Fig. 3 - Main Frame and Charger Group

	Ref.	Part No.	Description	Qty.
	1	06234	Frame Assy, F/[61010b]	1
	1	04010	Frame Wldt, Main	1
	2	41624	Caster Rep.By23252	2
	3	26395-2	Clamp, Cable, Stl, 0.38d X 0.38w, 1h	1
	4	41396	Skirt	2
	5	61088	Washer, 0.19b 1.00d .06, Stl, PI	10
	6	16230	Skirt	1
$\triangle$		41608	Bracket / Wheel Assy	2
•	7	01847	Wheel, 1.6d 0.72w 0.21b	1
•	8	41600	Bracket, Mtg, Caster	1
	9	41449	Strip	1
	10	16232	Skirt	1
	11	41701	Panel, Brush	1
	12	61110	Nut, U, .25-20	3
	13	09944	Skirt	1
	14	41670	Handle	1
	15	50609	Cap, Plug	1
	16	28499-2	Chain, Sash, #35, 05.3I 09 Link	1
	17	60496	Cord, Ele, 16-3 18.0inch	1
	18	04007	Tray	1
	19	41827	Cover, Frame, Rear	1
	20	64757	Bumper, Rbr, 0.5d 0.14t Adh	1
	21	49266	Tie, Cable, Nyl, 07.3l .19w 1.8 Max D	4
	22	61046	Bracket, Mounting (Replaced by none)	1
	23	60493	Kit, Replmt, Chrgr, F/ 50708	1
$\triangle$	23	60507	Kit, Replmt, Chrgr, F/ 50709	1
•	24	43942	Terminal, Qdc, [.25f, Ins ,14]	1
	25	50456	Terminal, Qdc, [.25m, Insf,10]	2
	26	04756	Wire	1
	27	60494	Bracket, Mtg, Cntrl Panl	1
	28	15006	Terminal, Qdc, [.25m, Inss, ]	3
	29	50049	Controlbox, Charger	1
	30	50050	Charger, 24vdc 015a 60hz 120vac Auto	1
	30	50116	Charger, 24vdc 15a 50hz	1
	31	70004	Bracket, Spacer, Battery	2
	32	23155	Caster, Stem, Swivel, 4.0 D	2
	33	82229	Sleeve	2

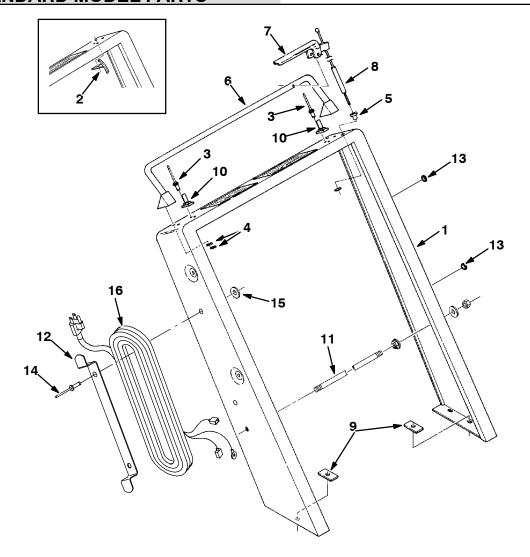


Fig. 4 - Handle Group

Ref. Part No. Description Qty. Kit, Replmt, Frame, F/ 48625-1 Kit, Replmt, Frame, F/09003 Handle Assy, W/ Label Kit, Replmt, Cable Guide, Clutch Rivet, Blind, .188d X 0.58 X .38d, Stl Nut, Speed, Retainer, .25-20 Bushing, Flng, 0.28b 0.50d 0.50l, Pye 41567-1 Handle Assy, Tube, 1.00d 24.9w Handle, Clutch Cable, .13d, 28.5l, .25-20 /.38ball Bar, Flt, Stl, 0.12 X 0.9 X 2.0 L Catch Rod Bracket, Cord 12 41783 Plug Button Rivet, Blind, .196d X 0.62 X .38d, Alm Washer, 0.19b 1.00d .06, Stl, PI Cord, Ele, 16-3 127.0 Inch

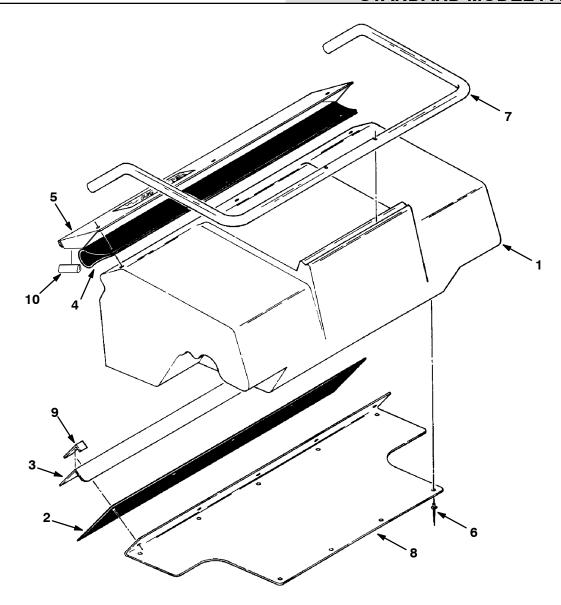


Fig. 5 - Hopper Assembly

	Ref.	Part No.	Description	Qty.
$\Delta$	1	41870	Hopper Assy	1
<b>A</b>	2	09944	Skirt	1
<b>A</b>	3	41447	Retainer, Skirt, Hppr, Rear,	1
<b>A</b>	4	41563	Skirt, .06th, 10.00w 30.00l, 06/0.31h	1
•	5	41568	Retainer, Seal, W/ Label, Rear	1
<b>A</b>	6	41732	Rivet, Blind	9
•	7	41513	Handle, Hppr	1
<b>A</b>	8	41448	Shield, Hppr	1
•	9	02592	Seal, Rbr, Open, 0.19th, 0.62w 04.6l	2
_	10	398207	Molding, Trim, Rubber, .06 1.4l	2

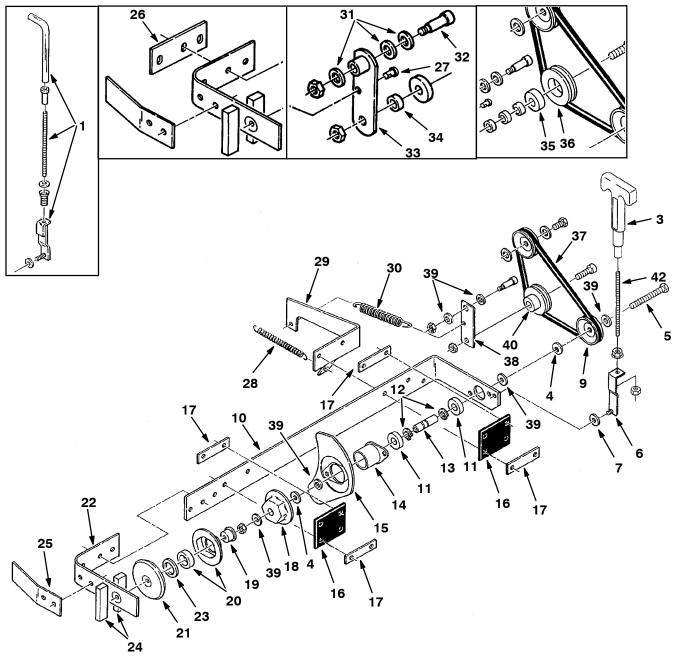


Fig. 6 - Brush Drive Group

Fig. 6 - Brush Drive Group

	Ref.	Part No.	Description	Qty.
	1	25147	Kit, Replmt, Handle / Bracket	1
	2	41743	Bushing, Flng, 0.30b 0.52d . L, Nyl	1
	3	25950	Handle, Lift, Brush	1
	4	41142	Washer, Lock, Int-Ext, .38	1
	5	21198	Screw, Hex, .38-16 X 1.25, 5	1
	6	25148	Bracket Wldt, Brush Lift	1
	7	24924	Washer, 0.28b 0.62d .06, Nyl	1
	8	32553	Spring, Cmpr, 0.72od .55wir 3.0l	1
	9	32562	Sheave, [3v], 1grv, 03.5pd 0.38b	1
	10	16237	Arm, Brush, Main, Drive	1
$\triangle$		41648	Shaft	1
<b>A</b>	11	41360AM	Bearing, Ball, 0.59b 1.26d 0.35w	2
<b>A</b>	12	01516	Ring, Retaining, Ext, 0.59d, Basic	2
•	13	47751	Shaft	1
<b>A</b>	14	41362	Bushing Assy, Flng, 2 Hole, 1.25b	1
-	15	41363	Cover, Flng, Drive, Gray	1
	16	41837	Hinge, Pyp, .06 2.0 W 03.3l 4/0.34h	2
	17	41411	Strip, Stl, 0.07th X 00.90w, 03.30l	4
	18	41357	Cup,Drive,Brush Tube-Grey	1
$\Delta$		41518	Arm Assy, Brush, Main	1
<b>A</b>	19	41385	Bar, Hex, Stl, Mach, Sleeve, Idler	1
•	20	41649	Cup & Bearing Assy -Brush	1
<b>A</b>	21	41386	Guard, Cup, Gray	1
•	22	41509	Arm, Brush, Main, Rh	1
•	23	09006	Washer	1
-	24	41637	Seal, Foam, Rbr, .50 0.75w 03.0l	2
	25	41669	Plate	1
	26	41864	Plate Rep.Bynone	1
	27	39019	Pin, Clevis, 0.37 D X 0.75l	1
	28	29260	Spring, Extn, 0.75od X 0.06wir, 5.3l	1
	29	41741	Bracket, Mtg, Spring	1
	30	29499	Spring, Extn, 0.75od X 0.11wir, 4.5l	1
	31	41818	Washer, 0.38b 0.56d .03, Stl	3
	32	56060	Bolt, Shld, .38d X 1.00, .31-18	1
	33	09971	Kit, Replmt, Idler Arm, F/ 41817	1
	34	49566	Sleeve	1
	35	01845	Bearing, Ball, 0.39b 1.18d 0.35w	1
	36	50038	Kit, Replmt, Idler, F/ [41819&47]	1
	37	32862	Belt, V, [3vx] 28.0l	1
	38	09945	Idler Arm	1
	39	32491	Washer, Flt, .31 Std	6
	40	02355	Sheave, [3v], 1grv, 03.0pd 0.38brg	1
	41	24227	Washer, Flat	1
	42	31906	Rod, Thrd, Full, .31-18 05.7l	1

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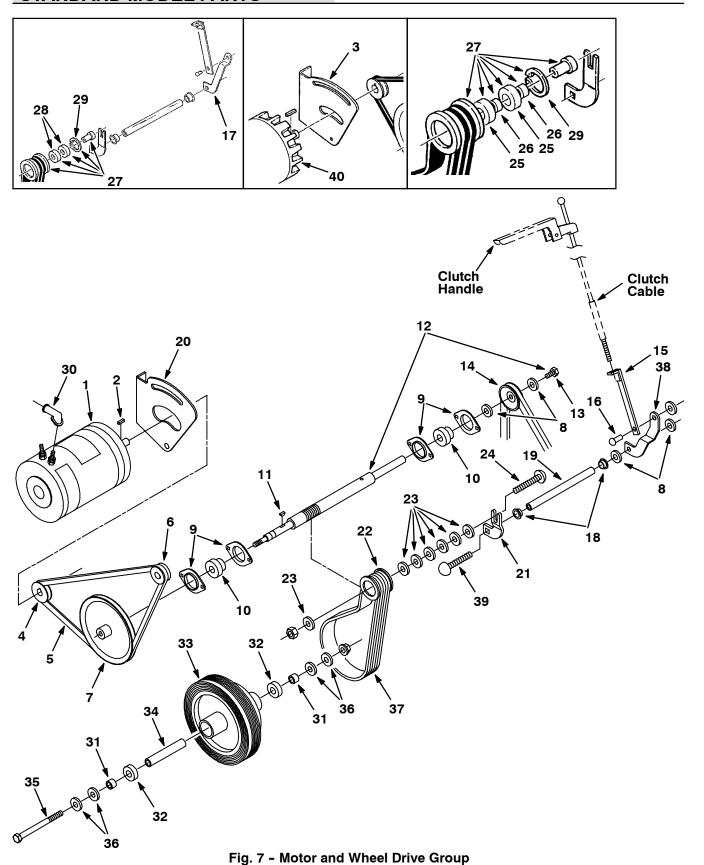


Fig. 7 - Motor and Wheel Drive Group

I	Ref.	Part No.	Description	Qty
,	1	50091	Kit, Replmt, Motor, F/ 61035 & 600 079 000	1
		37490	Brush, Motor, Set	1
,	1	50066	Motor, Ele, .8hp [Ohio, Elec. Motor] Repl. By 377412	1
		50122	Brush, Motor, Set	1
		50125	Brush Holder, With Brushes	1
		86041	Bearing, Ball, 0.67b 1.57d 0.47w	1
		46390AM	Bearing, Ball, 0.79b 1.85d 0.55w	1
•	1	377412	Motor, Ele, 24Vdc 0.75Hp 2100Rpm 28.0A	1
	2	00911	Key, Sq, 0.19 X 0.19, 00.75l	1
	3	41844	Bracket, Mtg, Motor, [Prestolite]	. 1
	4	28760	Sheave, [3I], 1grv, 01.8pd 0.62b	. 1
	5	23243	Belt, V, [3I] 36.0I	1
				1
	6	16925	Sheave, [3], 1grv, 01.6pd 0.62b	1
	7	41863	Sheave, [3l], 1grv, 06.4pd 0.38b	1
	8	41187	Washer, Belleville, .38	4
	9	48636	Flange, Brg, 1.5id 2h	4
	10	48635	Bearing, W/ Collar, 0.63b 1.57d 1.12w	2
	11	00500-1	Key, Woodruff, 0.09 0.50, [Asa#0304]	1
,	12	04594	Kit, Replmt, Shaft, F/39571	1
	13	06460	Screw, Hex, .38-16 X 1.00, Lh	1
	14	32563	Sheave, [3v], 1grv, 02.2pd 0.38b	1
	15	41828-1	Bracket Wldt, Clutch, Propel	1
	16	04733-2	Pin, Clevis, 0.37 D X 0.62l	1
	17	31905	Kit, Replmt, Arm, Clutch, F/ 41611	1
	18	41434	Bushing, Flng, 0.62b 0.68d 0.00l, Nyl	2
	19	41571	Shaft, Cntrl, Clutch	1
-	20	50090	Bracket Wldt, Motor, [Ohio]	1
,		31233	Arm Assy, Clutch, Propel	1
	21	41521	Arm, Idler, Clutch, Propel, Rh	1
	22	01199	Sheave, Flat, 1.8d 1.38w 0.67b	1
	23	32491	Washer, Flt, .31 Std	7
	24	378964	Bolt, Carriage, .38-16 X 2.00	
	25	28010	Bearing, Ball, 0.62b 1.38d 0.43w	2
	26	29091	Sleeve	2
			5.55.5	
	27	61487	Kit, Replant, Idler, F/31230/1/2	1
	28	50040	Kit, Replmt, Bearing,F/41646	2
	29	01513	Ring, Retaining, Int, 1.38d, Basic	1
	30	02076	Boot, 90deg .50d .57d X .84	1
		41871	Tire Assy, Solid, 08.0x2.0 , W/ Brg	1
	31	29091	Sleeve	2
	32	28010	Bearing, Ball, 0.62b 1.38d 0.43w	2
	33	50111	Tire Assy, Solid, 08.0x2.0 1.37b	1
	34	41504	Tube, Steel	1
	35	45872	Screw, Hex, .50-13 X 6.50, 2, Unpl	1
	36	32486	Washer, Flt, .50 Sae	4
	37	23279	Belt, V	1
	38	25997	Arm, Clutch, Propel, Lh	1
	39	10819	Bolt, Carriage, .38-16 X 1.00	1
	40	See Note	Motor, Ele	1

Note: Old style motor is no longer available. Order 50091 for motor and bracket replacement. Order 41844 for only bracket replacement.

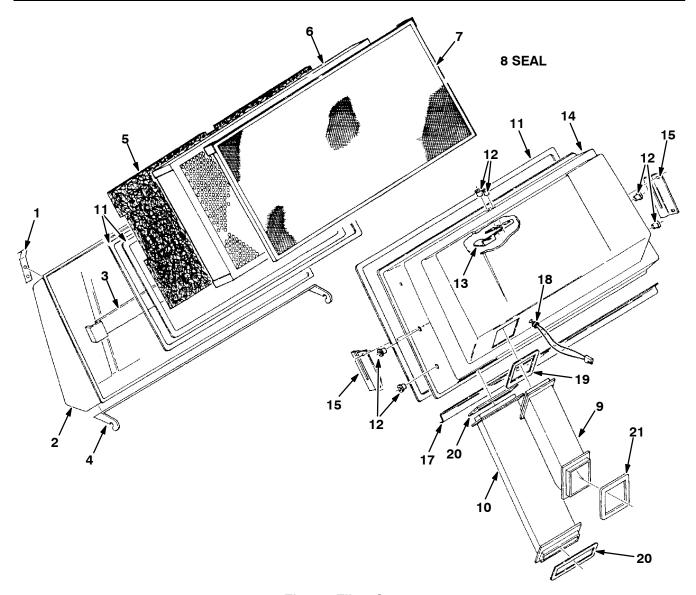


Fig. 8 - Filter Group

# STANDARD MODEL PARTS

### Fig. 8 - Filter Group

Ref.	Part No.	Description	Qty.
1	12881	Clip, Latch	2
2	02558	Cover, Filterbox, Rear	1
3	41824A	Retainer	1
4	41549	Bracket, Pivot, Fltr Cover	1
5	65358	Screen, Filter	1
6	60368	Filter, Pkg, Dust, Panl, 119plts	1
7	32557	Filter, Pkg, Dust, Panl, Fine	1
8	60378	Seal (Not Shown)	1
9	41573	Duct, Outlet, 3.0 3.0 7.8l Pye	1
10	41574	Duct, Input	1
11	41858	Seal, Foam, Rbr, .38 0.75w 94.0l	3
12	41845	Nut, Isolator, .25-20 #1/4-S	6
13	32556	Retainer	1
14	02414	Cover, Filterbox, Front	1
15	48662	Bracket, Retainer, Fltr, Rh	1
16	48661	Bracket, Retainer, Fltr, Lh	1
17	41612	Retainer Rep.By61381	1
18	29232	Strainrelief	1
19	41839	Gasket, Duct	1
20	41840	Gasket, Duct	2
21	41838	Gasket Duct Output	1

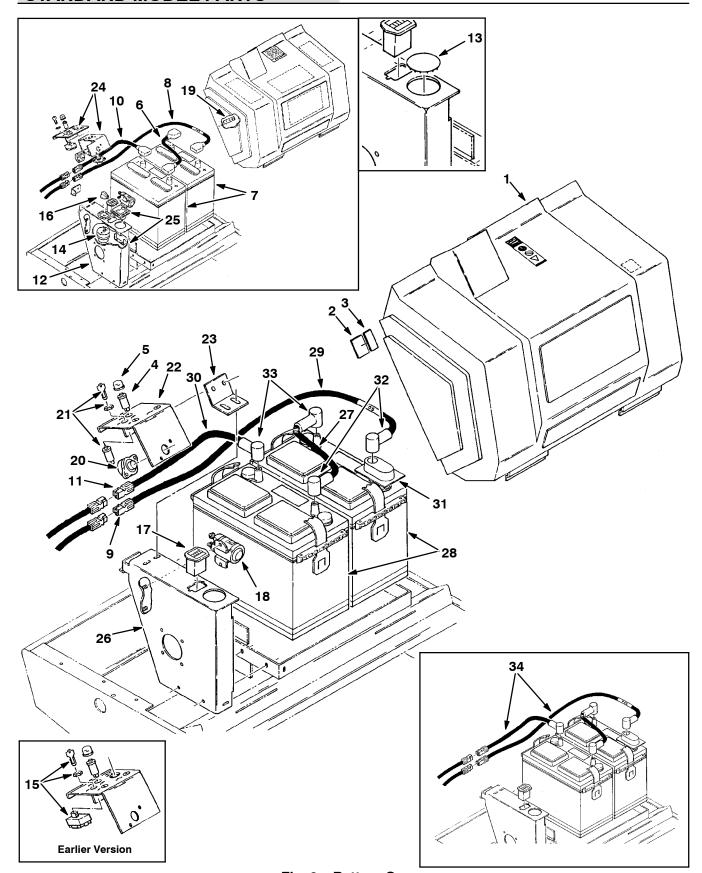


Fig. 9 - Battery Group

Fig. 9 - Battery Group

	Ref.	Part No.	Description	Qty.
$\Delta$	1	02422	Shroud	1
<b>A</b>	2	08896	Fastener, Velcro 1.0w Hook	2
<b>A</b>	3	25953	Fastener, Velcro, .5x1 White B	2
	4	<del>57803</del>	Circuitbreaker, 15.0a, Resetable Replaced by 9004588	1
	5	57751	Boot, Circuitbreaker	1
	6	50480	Cable, Battery, Blk 4ga 13.5l Pos/Neg	1
	7	61384	Kit, Replmt, Battery,Wet F/10146	2
$\Delta$	8	41882	Cable Assy, Battery, 6ga 18l [Anderson]	1
<b>A</b>	9	12827	Connector	1
$\Delta$	10	41883	Cable Assy, Battery, 6ga 14l, [Anderson]	1
<b>A</b>	11	12828	Connector	1
	12	60593	Panel, Fan, Spprt, Rework, [60495]	1
	13	82747	Button, Plug, 2.09h .0506 [Black Stl]	1
	14	61104	Switch Rep.By70089	1
	15	31203	Switch Rep. By 374227	1
	16	61106	Knob Rep.Bynone	1
	17	377433	Gauge, Hourmeter, Electronic	1
	18	02424	Contactor, 24vdc	1
	19	60463	Parts Unique, Hd Bmpr, Lpg, MI-D	2
	20	375119	Circuitbreaker, 50.0 Amp, Resetable	1
$\Delta$	21	222282	Switch, Key, 12Vdc A Spdt	1
<b>A</b>		222684	Key, Set of Two	1
	22	25116	Bracket, Mtg, Switch	1
	23	25115	Angle, Sppt, Switch Bracket	1
	24	25118	Kit, Replmt, Bracket	1
	25	29688	Gauge, Ammeter, Chrgr, 24vdc	1
	26	60495	Support Wldt, Fan	1
	27	61361	Wire, 06ga 13.5l Blk .38ring /.31ring	1
	28	578426	Battery, 12vdc, 0530Cc, 105Ah (27Tmx)	2
	29	61359	Wire, 06ga 18.5l Red .38ring /Anderson	1
	30	61360	Wire, 06ga 14.5l Blk .31ring /Anderson	1
	31	45962	Cover, Terminal, Battery, Pye	4
	32	61364	Boot, 90deg .62d .44d Red	2
	33	61365	Boot, 90deg .62d .44d Black	2
	34	23287	Kit, Replmt, Battery Harness	1

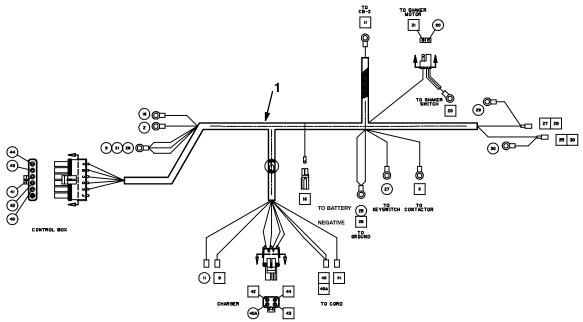


Fig. 10 - Wire Harnesses Group

02640

Ref.	Part No.	Description	Qty.
1	60487	Harness, Main	1

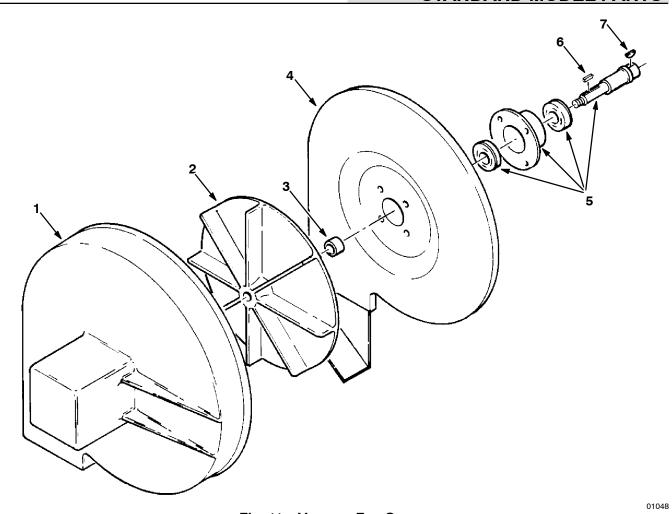


Fig. 11 - Vacuum Fan Group

Ref. Part No. Description Qty. Housing, Vacfan, Rear, 9.0d, Impeller 41351 1 Impeller, 9.00d X 0.376b 2 08143 1 3 10362 Spacer 1 Panel Wldt, Backing, Vacfan 4 41582 1 5 16934 Shaft 1 Key, Sq, 0.12 X 0.12, 00.50l 00960 6 1 Key, Woodruff, 0.12 0.50, [Asa#0404] 00500-4 7 1

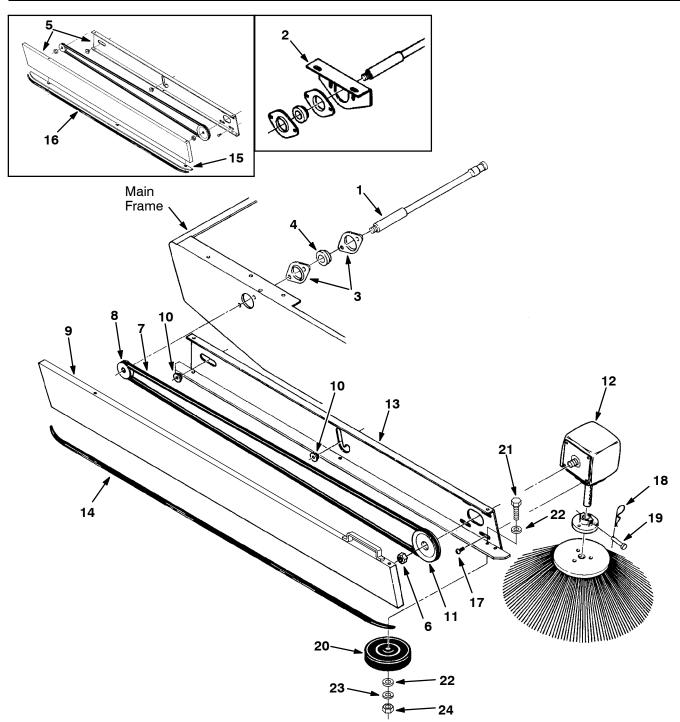
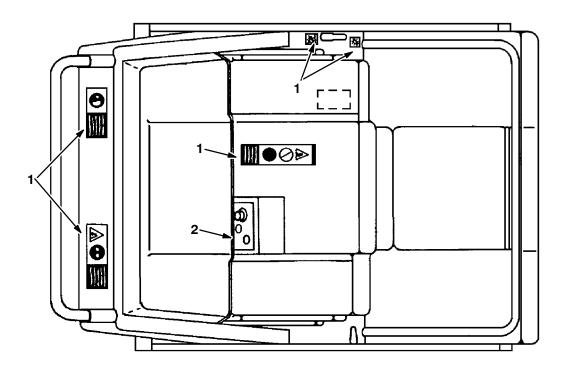


Fig. 12 - Side Brush Group

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Fig. 12 - Side Brush Group

	Ref.	Part No.	Description	Qty.
	1	48451	Shaft, Drive, Brush, Side	1
	2	48423	Plate, Mtg, Bracket	1
	3	48636	Flange, Brg, 1.5id 2h	2
	4	48635	Bearing, W/ Collar, 0.63b 1.57d 1.12w	1
	5	07894	Arm, Brush, Side	1
	6	39562	Nut, Hex, Jam, .38-16, Lh	1
	7	41678	Belt, V, [3l] 80.0l	1
	8	48452	Sheave, [3I], 1grv, 01.4pd .38-16	1
	9	07890	Cover Wldt, Brush Arm	1
	10	01047	Retainer	2
	11	07872	Sheave, [3I], 1grv, 02.9pd .38-16	1
	12	41731	Gearbox, 90, :1ratio, Brush, Side	1
	13	07891	Arm, Brush, Side	1
	14	07887	Molding, Trim, .0811 39.20	1
	15	41927	Bumper, Side Brush	1
	16	62595-14	Molding, Trim, .0811 44.00	1
	17	41708	Screw, Btn, .25-20 X 0.62, NI	4
	18	08085	Pin, Hair Cotter, 0.31 D .058 Wir	1
	19	15173	Pin, Clevis, 0.25 D X 1.25l	1
$\Delta$		04188	Wheel Assy, 4.0d 0.81w	1
<b>A</b>	20	23295	Wheel, 4.0d 0.81w 0.25b	1
•	21	39528	Screw, Hex, .25-20X2.00, 5	1
<b>A</b>	22	32490	Washer, Flat, 0.25 Std	2
<b>A</b>	23	32982	Washer, Lock, Int, .25	1
<b>A</b>	24	19312	Nut, Hex, Std, M10X1.5	1



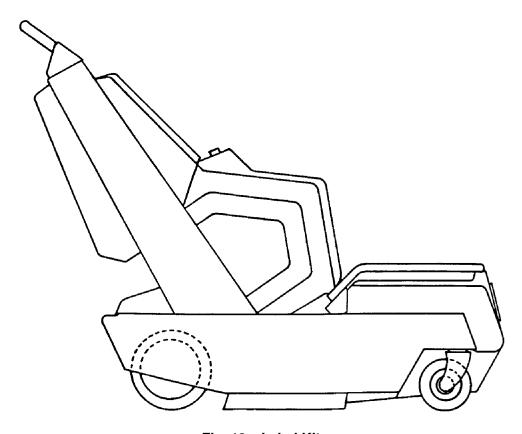


Fig. 13 - Label Kit

 Ref.
 Part No.
 Description
 Qty.

 ▼
 1
 02575
 Kit, Replmt, Label, Complt
 1

 ▲
 2
 30180
 Label, Opertnl, Instmt Panel
 1

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