
GALAXY
B D 12
(Belt Drum 12")
FLOOR SANDER

Operator's Manual

GALAXY FLOOR SANDING MACHINES

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SPECIFICATIONS AND COMPONENTS SUBJECT TO CHANGE WITHOUT NOTICE.

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INTRODUCTION

Galaxy Floor Sanding machines are manufactured to the highest standards in the industry.

The components in your new Galaxy floor sander are machined in-house to exact specifications. During the assembly of your new sander, each and every part is re-checked to meet manufacturing specifications.

All Galaxy floor sanders are test run at the factory to ensure you receive the best possible floor sander. Your new sander is then crated and shipped to your door.

Take the time to read the complete operator's manual. This manual contains important information about the components, operation, care and maintenance of your new floor sander. With proper operation, care and maintenance, a Galaxy floor sander will provide years of trouble-free operation.

Galaxy believes in service. To this end we have supplied the complete schematics of the equipment. Keeping your Galaxy in top shape also means using only GENUINE GALAXY REPLACEMENT PARTS. Call your distributor or the factory for replacement parts. Galaxy stocks all parts.

In the years to come, as your Galaxy floor sander continues in top form, you will further appreciate the engineering excellence that has gone into developing this product.

This manual contains important information regarding your new sander. Take the time to study the manual and become familiar with all of the advanced features present on your new Galaxy. Make certain all operators study the manual prior to operating the equipment.

Thank you for purchasing a Galaxy!

GALAXY FLOOR SANDERS
Jim Tasikas - President

CHECKLIST OF ITEMS SHIPPED

1. GALAXY FLOOR SANDER
2. POWER CABLE – 90 FEET LONG
3. TOOLS – 1 ALLEN KEY, 2 DRUM WRENCHES (BD12 only)
4. DUST BAG
5. PAPER TIGHTENING WEDGES – INSERTED IN THE DRUM (BD12 only)
6. SANDPAPER CUTTING TEMPLATE (BD12 only)
7. WARRANTY DOCUMENTS
8. OPERATOR'S MANUAL

**GALAXY
FLOOR SANDING MACHINES**

**GALAXY
BD-12
(Belt/Drum 12")**

Patented Design

U.S. Patent #5,224,301 European Patent Pending

**Two machines in One.
A drum sander. A belt sander.**

**Galaxy BD-12
Operator's Manual**

IMPORTANT - All operators should read this manual.

The Galaxy BD-12 Operator's Manual contains important information for the proper use and safe operation of this floor sander. Failure to read this manual prior to operating or servicing of the Galaxy BD-12 could result in injury to you or to other personnel. Failure to read the manual could result in damage to the machine or property. All operators must have training in the operation of this floor sander before attempting to use it. If an operator cannot read English, explain this manual fully before allowing them to operate the floor sander.

All directions given, on the operation of the Galaxy BD-12, in this manual, are seen from the operator's position, standing behind the floor sander.

For additional copies of this manual contact Galaxy Floor Sanding Machines.
84 Northline Road, North York, Ontario, Canada M4B 3E5 Telephone: (416) 285-6600

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OPERATOR SAFETY INSTRUCTIONS

DANGER: Failure to read the Operator's Manual prior to operating or attempting any service or maintenance procedure to your Galaxy Floor Sander could result in injury to you or to other personnel. As well, damage to the machine or to other property could occur.

DANGER: Sanding/finishing wood floors can create an environment that can be explosive. The following safety procedures must be adhered to:

JOB SITE SAFETY PRECAUTIONS

- Cigarette lighters, pilot lights and any other source of ignition can create an explosion during a sanding session. All sources of ignition should be extinguished or removed entirely from the work area.
- Floor sanding machines can cause flammable material and vapors to burn. i.e., solvents, thinners, alcohol, fuels, certain finishes, wood dust and other combustible materials can create an explosive environment. Read the manufacturer's label on all chemicals used to determine combustibility. Keep the work area well ventilated.
- Spontaneous combustion or an explosion can occur when working with sanding dust. The sanding dust can ignite and cause injury or damage. Sanding dust should be disposed of properly. Do not leave your container of sanding dust inside a building or vehicle.
- Empty the contents of the dust bag when the bag is 1/2 full. At all times, remove the contents of the dust bag each time you finish using the machine. Never leave a dust bag unattended with sanding dust in it.
- Do not empty the contents of the dust bag into a fire.
- Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

MACHINE SAFETY

DANGER: Operating a machine that is not fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled. Keep all fasteners tight. Keep adjustments according to machine specifications.

MACHINE SAFETY CONTINUED

DANGER: Electrocutation could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the power supply before attempting any maintenance or service.

DANGER: Electrocutation could occur if machine is used on ungrounded electrical power source. Never remove or disable the grounding supply conductor on the electrical cord. Consult an electrician if the grounding conductor is missing or if you suspect your circuit is not grounded properly.

DANGER: Use of this machine with a damaged power cord could result in an electrical shock. Do not use the machine if the power cord is damaged. Do not pull on the electrical cord to move the machine.

DANGER: Electrocutation or injury could occur if the power cord is run over or damaged by the sander. Keep the cord free from under the machine to avoid contact with the sandpaper. Always lift the power cord over the machine.

DANGER: Moving parts of this machine can cause serious injury and/or damage. Keep hands, feet and loose clothing away from all moving parts of the sander.

DANGER: Operating a sander without all guards, doors or covers in place can cause injury or damage. Always check to make sure that all of the guards, doors and covers are secure and in place.

DANGER: Injury to the operator or bystanders could occur if the machine's power is on while performing maintenance, changing or adjusting the belt, or changing the dust bag.

SAFETY FIRST

WARNING: Failure to read and observe all safety statements found on your machine or in this Operator's Manual can result in serious injury or damage. Read and observe all safety statements.

WARNING: Sanding dust can be airborne and can be breathed in while operating a sander. Always wear a dust mask while operating sanding equipment.

WARNING: Injury to the eyes and/or body can occur if protective clothing and/or equipment is not worn while sanding. Always wear safety goggles and protective clothing.

WARNING: Make sure the power switch is in the off position and the drum is disengaged before plugging in the power cord.

CAUTION: Prior to attempting any repairs please contact your local Galaxy distributor or head office. Repairs performed by unauthorized personnel could result in damage or injury. Repairs performed by unauthorized personnel will void your warranty.

CAUTION: Do not use the floor sander to move other objects, to climb on as a step or furniture, and do not ride on the equipment.

SAFETY FIRST CONTINUED

CAUTION: Do not place weights on the floor sander.

CAUTION: Damage could occur to the machine if not properly kept in a dry building for storage. Store the machine in a dry environment.

CAUTION: The machine is heavy. When transporting the machine, get help to lift the machine and motor using the proper carrying handles. When an assistant is not available remove the motor before attempting to move the machine.

CAUTION: Serious damage to the floor can occur if the machine is left running in one spot while the sanding drum is in contact with the floor. Do not dwell while lowering or raising the sanding drum. Always sand at a constant rate.

MACHINE SAFETY STATEMENTS

The following information signals potentially dangerous conditions to the operator and/or equipment. Read this manual carefully and familiarize yourself with the machine. Know when these conditions can exist. Locate all safety devices on the machine. Then, take the necessary steps to train the personnel that will be operating the machine. Encourage operators to report machine damage or faulty operation immediately.

1. Keep hands and clothing clear of rotating parts.
2. Keep hands on controls when the motor is running.
3. Do not leave the machine when the motor is running.
4. Do not operate the machine with the access door open or the belt guard removed.
5. Always operate the machine with the dust bag in place.
6. Do not remove the dust bag with the motor running.
7. Always disconnect the motor pigtail power cord from the handle before servicing the machine.
8. Use caution if motor is removed for transporting (weight 108 lbs.). The machine weighs 106 lbs. (minus the motor).
9. Always operate in a well ventilated area.
10. Always dispose of sanding dust properly.

ELECTRICAL CONNECTION INSTRUCTIONS

CAUTION: This machine will operate only on AC current and on electrical voltage shown on the motor nameplate (220 volt). Make sure you have the correct frequency and voltage before connecting the power cord to an outlet.

This machine must be connected to an electrically grounded circuit in order to protect the operator from electric shock. This machine has an approved power cord with three conductors as well as a plug with three terminals. Connect the plug into a three holed receptacle. For maximum protection against electric shock, use a circuit that is protected by a ground fault circuit interrupter.

DANGER: Electrocutation could occur if the ground pin is tampered with in any way. Do not cut, remove, or break the ground pin. Do not try to fit a three-terminal plug into a receptacle or connector body other than a three plug receptacle or connector body. If the outlet does not fit the plug, consult your electrical contractor.

DANGER: Electrocutation could occur if the machine is used with a damaged plug or power cord. If the cords or plugs are worn or damaged in any way, have them replaced by an authorized service person or electrician.

DANGER: Electrocutation could occur if the machine is exposed to water or rain. Keep the machine dry.

EXTENSION CORDS

Use only an approved three-pronged extension cord with two main conductors and one grounding conductor. This machine's power cord is a 12 gauge wire. This machine is equipped with a 83ft. power cord. When greater range is needed follow the table below to determine cable gauge of additional footage. Refer to the following chart for extension cord information.

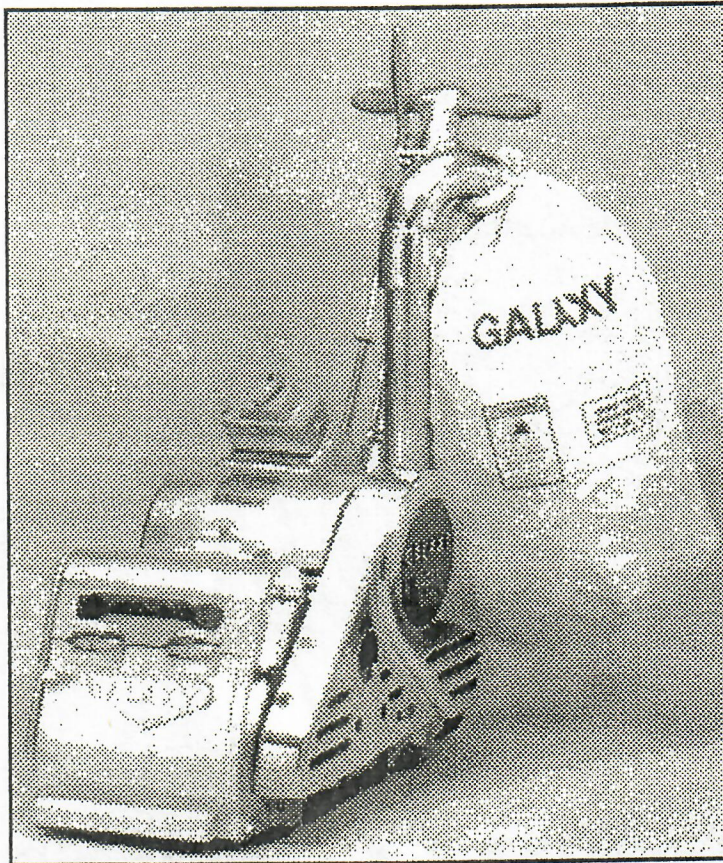
Feet/Wire Gauge (Stranded Copper)

Source Voltage	0 - 100'	100 - 250'
208	6	use Voltage Booster
230	10	8

If motor appears to labour or takes a considerably longer time to come up to speed, reduce sanding pressure.

MACHINE SPECIFICATIONS

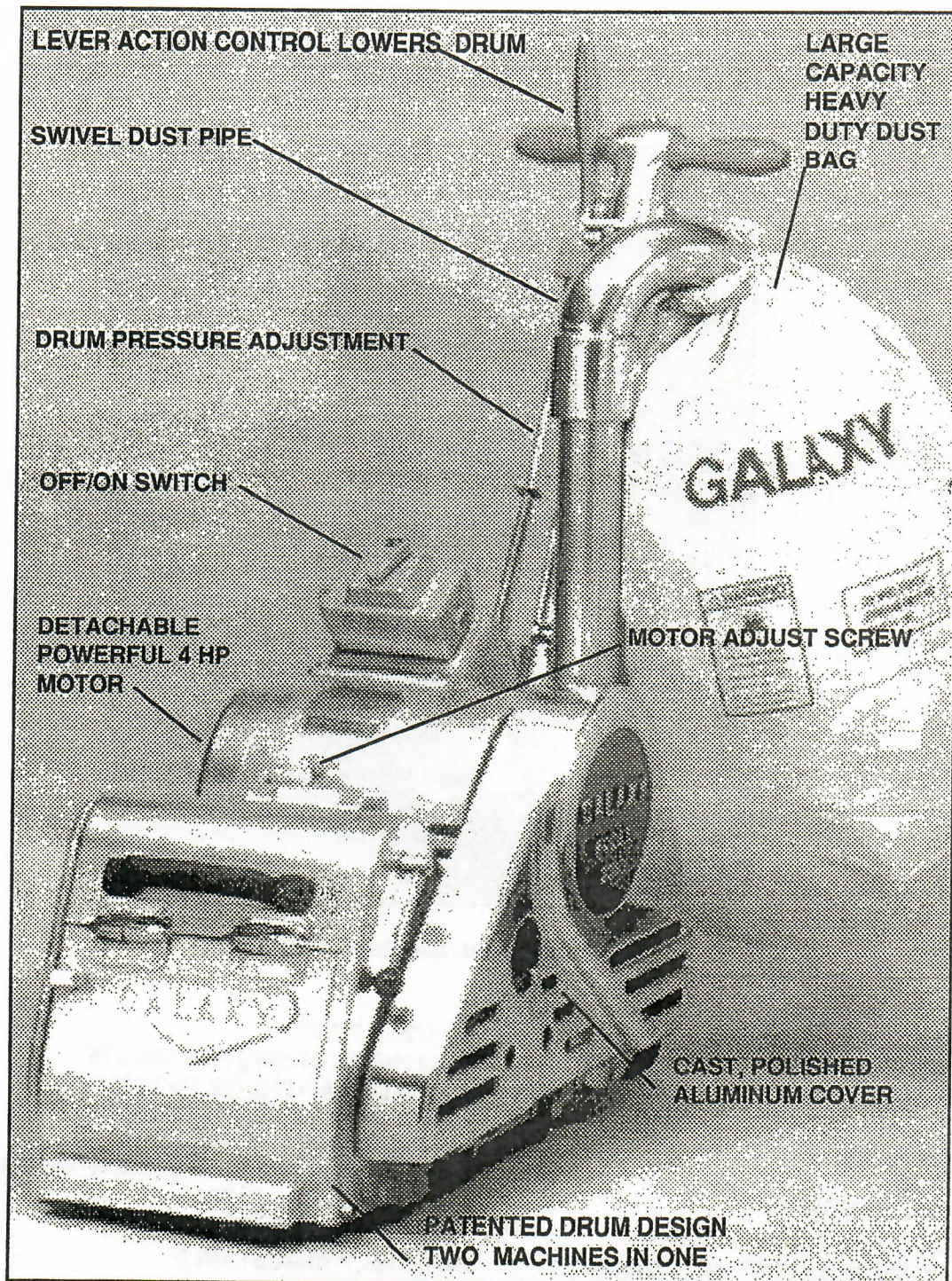
GALAXY B D 12 FLOOR SANDER TWO MACHINES IN ONE



MECHANICAL SPECIFICATIONS

ABRASIVE BELT SIZE	29 1/2" X 7 7/8"
SANDING DRUM	2500 REVOLUTIONS PER MINUTE
ABRASIVE SPEED	64,000 LINEAR INCHES PER MINUTE
DUST FAN SPEED	8000 REVOLUTIONS PER MINUTE
DUST FAN FLOW	320 CUBIC FEET PER MINUTE
MOTOR	60 HZ. 24 AMP 208-240 VOLT 4 HP CONTINUOUS
LEVELING CONTROL	EXTERNALLY ADJUSTABLE
OPERATING CONTROLS	ADJUSTABLE LEVER
SANDING PRESSURE ADJUSTMENT	INFINITELY ADJUSTABLE
WHEELS	REPLACEABLE,
WHEELS - MODELS	METAL OR NON-MARKING POLYETHYLENE
BEARINGS	LIFETIME LUBRICATED
WEIGHT	220 POUNDS

GALAXY B D 12



A DRUM SANDER AND A BELT SANDER.

SECTION TWO

Introducing
the
Recommended Sensors

Preparing The
Machine
As A Burn Sensor
Adjusting The Wheels

Preparing The
Machine
As A Heat Sensor

How To Operate
The Machine
Maintenance

SECTION TWO

**Transporting,
Adjustments,
Recommended Sandpapers.**

**Preparing The
Machine
As A Drum Sander,
Adjusting The Wheels.**

**Preparing The
Machine
As A Belt Sander.**

**How To Operate,
Troubleshooting,
Maintenance.**

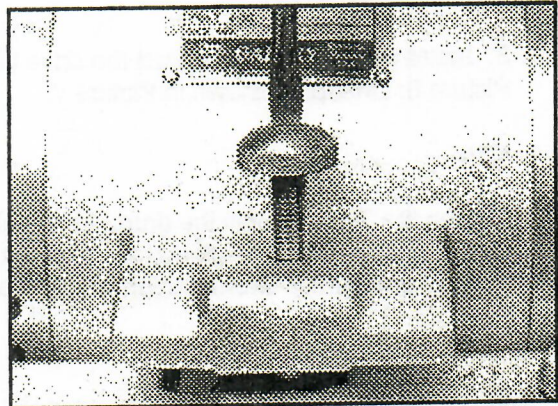
HOW TO TRANSPORT THE MACHINE

WARNING: The machine is heavy. Remove the motor from the machine before transporting. Get help loading the machine and motor.

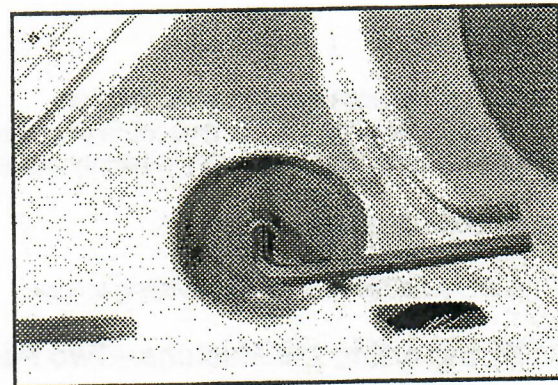
Transporting the Machine - One Person

To transport the machine, follow this procedure:

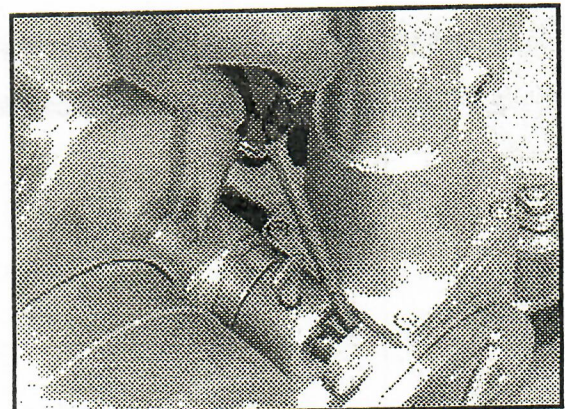
1. Make sure the power cable is disconnected from the electrical outlet.
2. Disconnect the power cord connection: (twist and pull).
3. Loosen the belt tension T-screw completely. Picture 2.
4. Loosen off the belt guard to gain entry to drive belts. Remove the drive belts. Picture 3.
5. Unscrew the motor mounting pins clear of the shaft. Picture 4.
6. Straddle the machine. With your legs, lift the motor off of the chassis. Take the motor to worksite.
7. Lift the chassis by grasping the front handle and rear of chassis. Bring the belt guard against your chest. Take the chassis to worksite.



2. Loosen off belt tension



3. Use the key provided.



4. Slide out the motor pins.

**TO ASSEMBLE THE MACHINE AFTER
TRANSPORTING FOLLOW THIS PROCEDURE.**

1. Place the motor on the chassis. Picture 5
2. Push in the motor release pins. Tightening the motor release screws.
3. Install the drive belts. Adjust the drive belt tension. Picture 6. Lineup as shown in Picture 7.

Note:

Tighten the T-screw until the drum drive belt experiences a 1/2" deflection at the mid-span when 10lbs of pressure is exerted upon it with your thumb.

CAUTION: Premature bearing failure can occur if the fan belt is set too tight. The fan belt should deflect no less than 1/2" at 5 lbs.

Note:

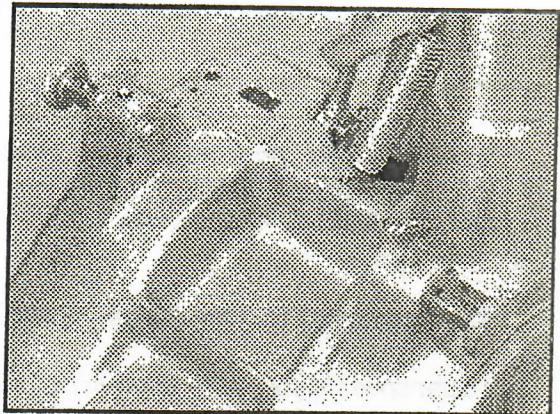
It is not necessary to adjust the fan belt independently during this procedure or during replacement. The idler pulley is factory adjusted.

5. Close the belt guard door.
6. Plug the motor pigtail in, twisting to lock.

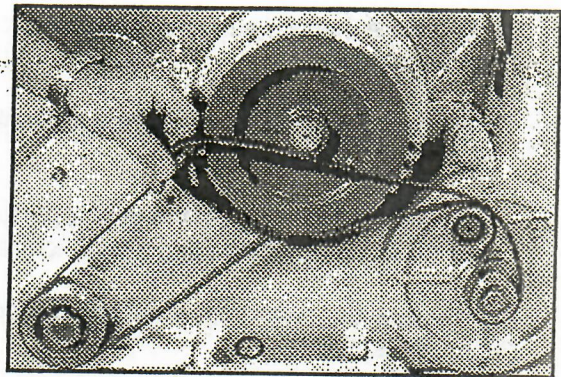
Transporting the Machine - Two People

When transporting the machine with two people follow this procedure:

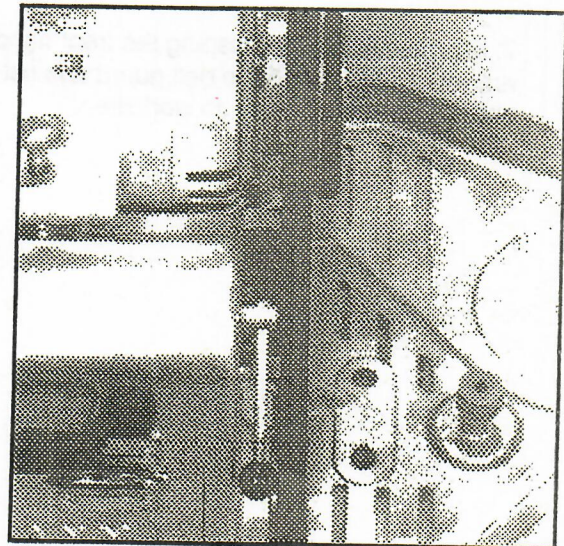
1. One person lifts the machine by the rear carriage.
2. Person #2 lifts the machine by the carrying handles.



5. Make sure the pins are pulled out before installing the motor.



6. Install drive pulleys.

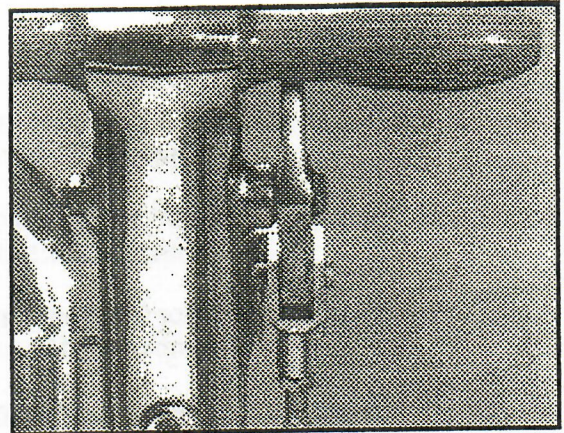


7. Line up drive belt as shown.

ADJUSTING THE HEIGHT OF THE DRUM

The drum height is factory set for general use. If you wish to change the drum height follow this procedure.

1. Pull out the cotter pin. Photo 8.
2. Using the 9/16 wrench, loosen the nut on the control arm. The nut is just below the yoke.
3. Remove the pin.
4. By turning the "yoke" counter clockwise the drum is raised. Turning the yoke clockwise lowers the drum.



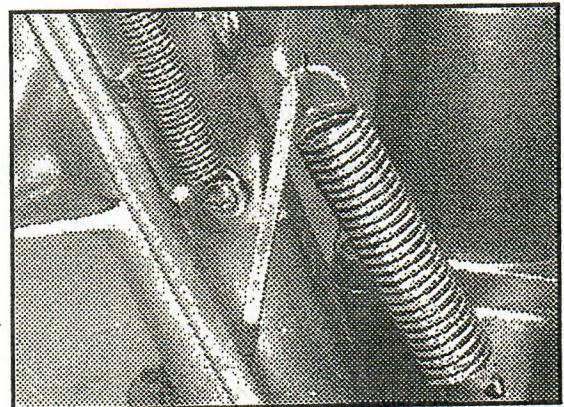
8. Remove cotter pin.

PRESSURE SPRING ADJUSTMENT

Adding Pressure.

The drum pressure spring is factory set for minimum pressure. To adjust the pressure follow this procedure. Photo 9

1. For a more aggressive cut raise the lever that is attached to the drum pressure spring up one notch.



9. Set at minimum pressure.

Note: Only adjust the pressure when a difficult cutting situation is present. Painted floors, etc.

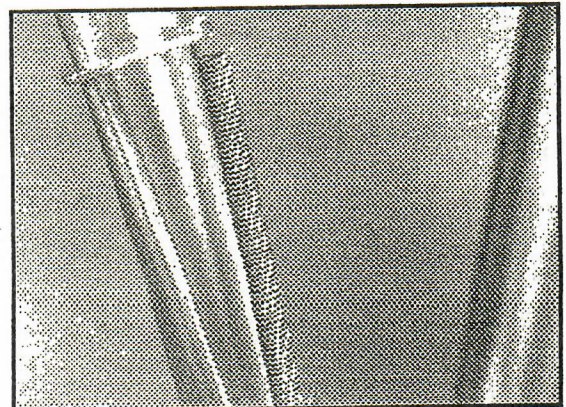
Reducing Pressure.

For a very light cut the pressure can be reduced. To reduce the pressure follow this procedure.

1. Pulling the pressure release spring up will reduce pressure on the drum and give the lightest cut. Photo 10.

Light pressure is especially helpful when working on veneers, parkay or herring bone.

2. Moving the spring down will increase the pressure on the drum.



10. Factory setting - no pressure.

SANDING CUTS AND SANDPAPER

Grit	Use
16 grit	For removing gross imperfections and restoring evenness to old flooring. To remove build-up of paints and varnishes.
36 grit	For first sanding of new flooring (maple, oak). For removing minor imperfections and finishes from old flooring.
40 grit	For first sanding of new flooring (oak, walnut). For removing minor imperfections and finishes from old flooring.
50 grit	For first sanding of new flooring (cedar, pine, fir, ash). For clean-up of 16 grit.
60 grit	For clean-up from initial cut 36-40 grit.
80 grit	For final sanding of certain hardwoods. For clean-up of initial cuts (50 grit).
100 grit	For final sanding of certain hardwoods where a smooth surface is desired.
120 grit	For final sanding of certain conifers.

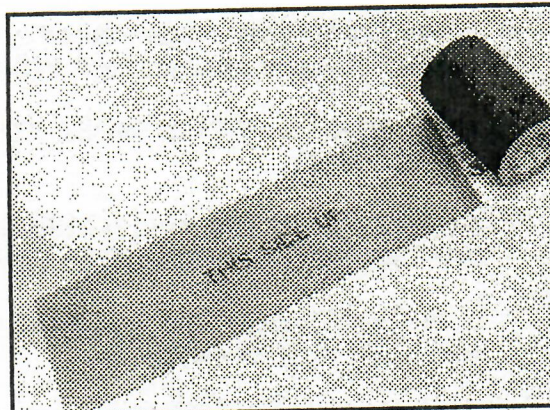
USING THE GALAXY AS A DRUM SANDER

SELECTING AND CUTTING THE SANDPAPER

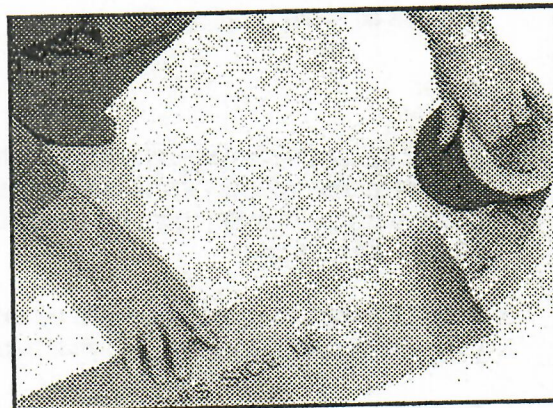
1. Select the proper grit of sand paper.
2. Place the supplied template on the roll as shown in photo 11.
3. Tear the exact measure of the template off the roll as shown in photo 12.
4. Slide the template back on the cut portion of sandpaper and fold over so that the paper lines up just inside the notch on the template as shown in photo 13.
5. For the fold on the other end, repeat the process.

Note:

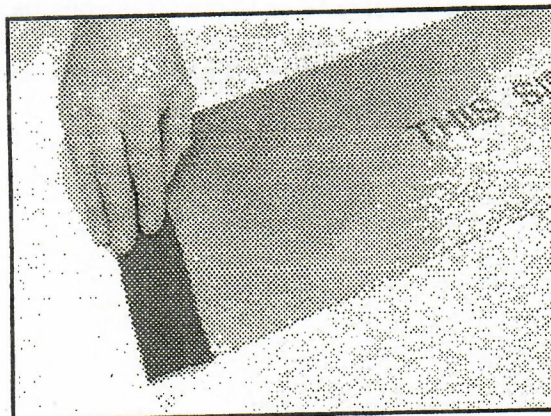
Always make sure the paper is cut to the correct length.
Always use the supplied template when cutting a length of sandpaper.



11. Use supplied template.



12. Tear off exact measure.



13. Locate notch and fold to notch.

6. Remove the excess paper caused by the angle cut and fold the paper back, as shown in photo 14.

PREPARING TO INSTALL THE SANDPAPER ON THE DRUM

MAKE SURE THE MACHINE IS TURNED OFF AND UNPLUGGED FROM THE POWER SOURCE.

1. The control handle must be in the **UP** position to raise the drum off the surface.

2. Open drum side cover and remove the front drum cover as shown in photo 15.

3. Loosen paper tighteners and remove balancing wedges as shown in photo 16.

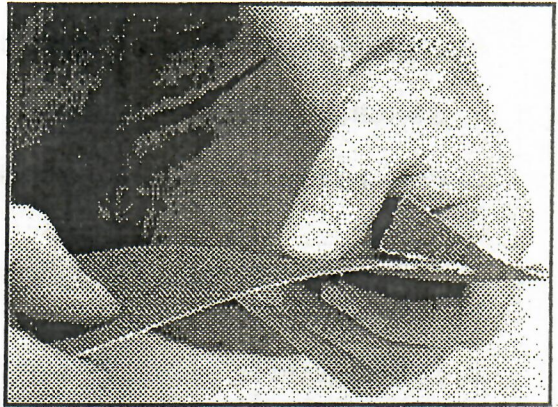
Note:

Do not discard the balancing wedges. They will be needed to take up slack in the paper tighteners and to balance the drum when using the Super Galaxy 2000 Plus as a belt sander.

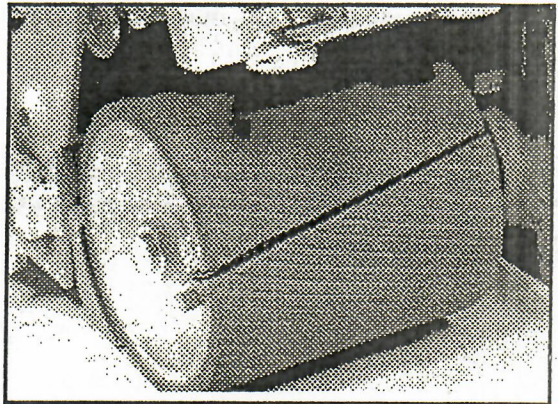
Balancing wedges are used to take up extra space in the paper tighteners when using finer papers.

Paper tighteners are engineered to accept 34 and 24 grit sandpaper.

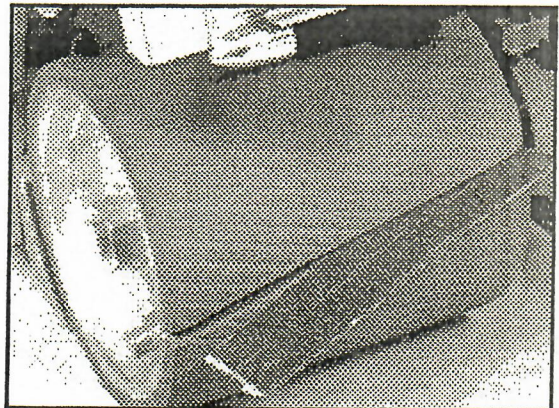
When using 16 or 12 grit sandpaper the grit has to be scrapped to remove some of the grit thickness. Doing this will allow the sandpaper to fit into the paper tighteners.



14. Tear off excess width.



15. Loosen off paper tighteners.



16. Remove balancing wedges.

INSTALLING SANDPAPER ON THE DRUM

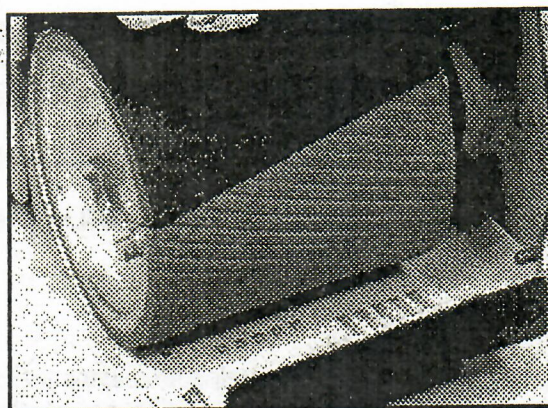
1. With the balancing wedges removed and the paper tighteners released, insert the sandpaper into the drum slot as shown in photo 17.
2. Turn the drum by hand so that the paper rolls around the top of the sanding drum as shown in photo 18.
3. When the paper is completely on the drum, remove the bottom fold from the drum slot and insert the top fold first.
4. Insert the bottom fold into the drum slot and insert the necessary wedges to take up the slack in the paper tighteners as shown in photo 19.

Note:

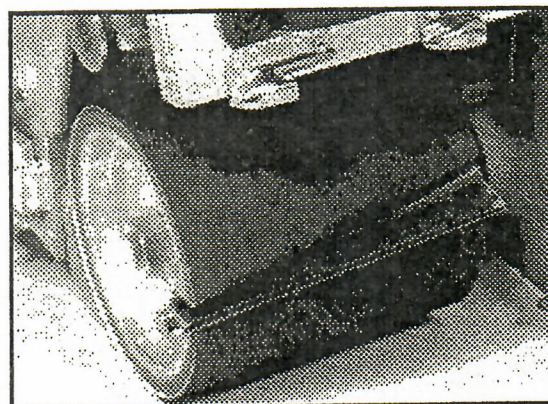
The drum is manufactured to accommodate course sandpaper. When using a finer paper wedges must be inserted into the drum slot to ensure the paper tighteners lock firmly in place and hold the paper secure.



17. Make sure the paper lines up with the edges of the drum.



18. Turn the drum counter clockwise.



19. Insert proper wedges.

5. Before tightening the paper on the drum, the paper should be pulled out 1/4" at the top and bottom fold.

Note:

The paper will break when tightened if not pulled out of the drum slot 1/4". Lift paper 1/4" off the drum on both sides. Make certain the top and bottom folds are loosened. Allow paper tighteners to pull the paper firmly into position.

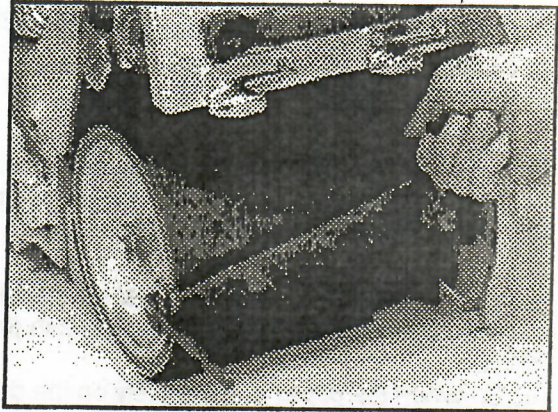
When using wedges to take up additional space in the paper tighteners, be certain the tighteners lock in position and do not turn back. Even the slightest turn back of the paper tighteners will loosen the paper.

6. The sandpaper is properly installed when:

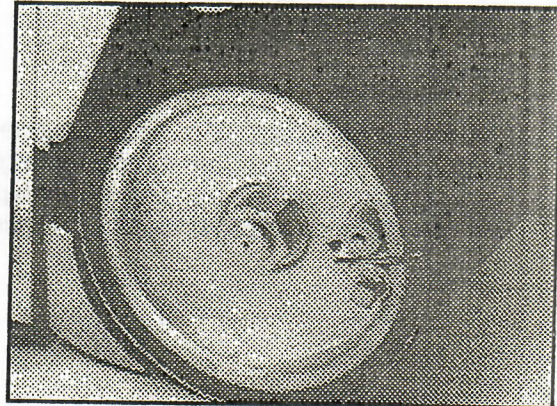
- A) The paper is lined up on the drum.
- B) Wedges are inserted.
- C) Paper is loosened at folds 1/4" before tightening.
- D) Paper is tightened until it touches the surface of the drum.

Note:

Over tightening the sandpaper causes the drum circumference to change and causes chatter marks, and/or the paper to snap off the drum.



20. Tighten firmly. Do not allow the tighteners to roll back.



21. Properly installed sanding paper.

ADJUSTING THE FRONT WHEELS

IMPORTANT NOTES:

The front wheels are factory set with the drum at a neutral position.

To adjust the front wheels, follow this procedure:

1. Determine the cutting pattern of the drum by checking its sanding print on a smooth flat surface. (Figure 30)
2. Gently tip machine over onto its guard belt cover.
3. Using a non-permanent marking device, align a reference mark with the slot in the wheel shaft.
4. Using an open-ended 3/4" wrench, loosen the right wheel shaft nut. (Figure 31)
5. Using a straight screwdriver, turn the offset shaft in small increments in the desired direction.

NOTE:

The head of the wheel shaft is engraved with "H" and "L". (Figure 32)

Adjusting "H" to the bottom will raise that side of the machine.

Adjusting "L" to the bottom will lower that side of the machine.

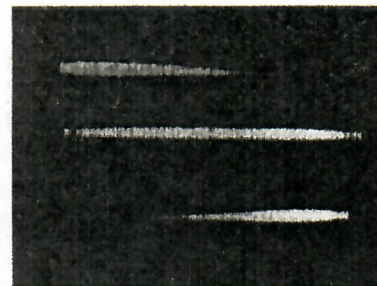
Both wheels are adjustable

6. Tighten up the wheel shaft nut.
7. Recheck sanding print for the desired cutting pattern.

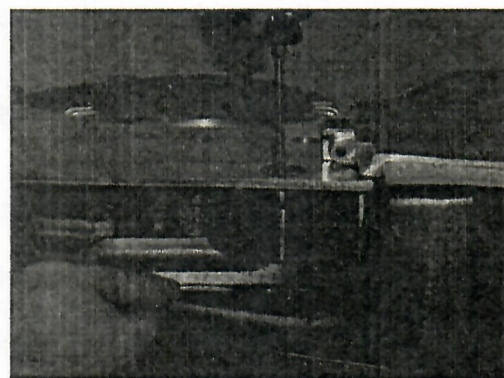
Left cut heavy

Neutral

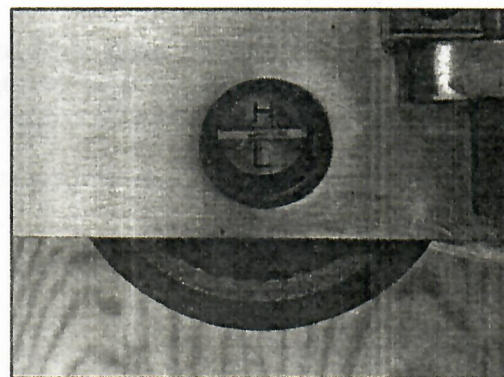
Right cut heavy



30. Check sanding print.



31. Loosen shaft nut.



32. Adjust wheels.

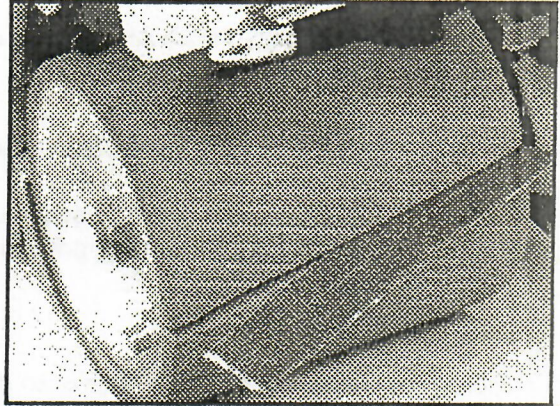
USING THE GALAXY AS A BELT SANDER

IMPORTANT NOTE:

Before setting up the machine to run in the belt mode of operation, any paper on the sanding drum must be removed and the wedges re-installed in the paper tighteners. This step is necessary to balance the drum as shown in photo 27.

Install 2 - 40 grit wedges and 1 - 100 grit wedge into the paper tighteners. Make sure the wedges are below the surface of the drum and the paper tighteners are tight.

When making replacement wedges the correct measurement is 2" deep and 8" wide. Cut the exact size.



27. Re-install the wedges.

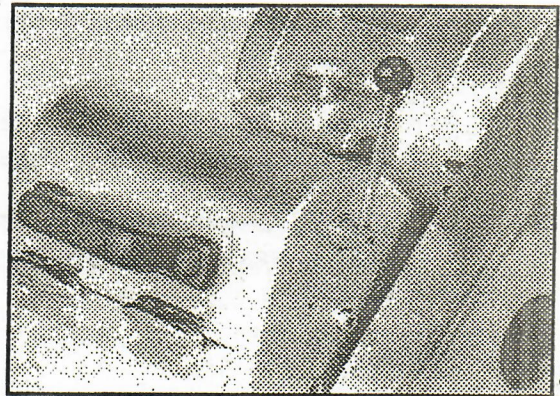
INSTALLING BELT SANDPAPER

1. Disengage the tension on the belt mechanism as shown in photo 28. The control handle should be placed in the **UP** position to raise the drum off the floor.

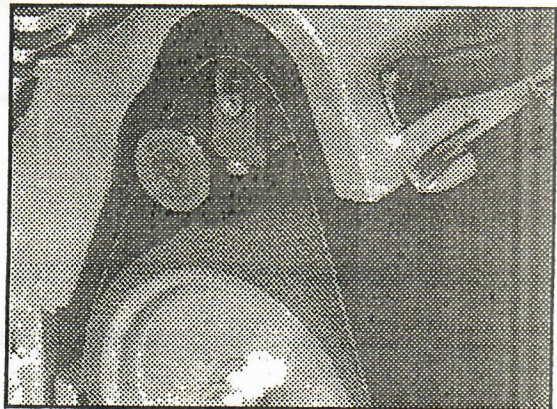
2. Open the side drum cover. Remove the front drum cover. Slide the new sanding belt into position as shown in photo 29.

3. Once the sanding belt is centered on the drum, lower the tension control lever and spin drum by hand to set the sanding belt on its proper track.

4. Replace front and side drum covers.



28. Lever in the up position.



29. Sanding belt is easily installed.

USING THE GALAXY AS A BELT SANDER - Continued

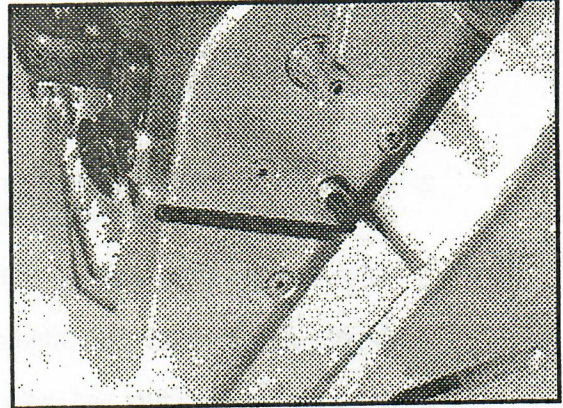
5. Tracking of the sanding belt must now be fine tuned. Turn the belt tracking adjustment screw, as illustrated in photo 30. Use the key provided.

Turning the adjustment screw clockwise will move the sanding belt towards the drive pulley side of the machine.

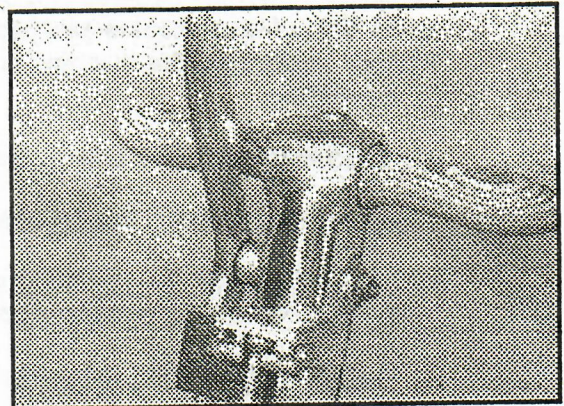
Turning the adjustment screw counter clockwise will move the sanding belt away from the drive pulley side of the machine.

6. After adjusting, turn the drum and belt manually to check the belt tracking. When the belt is tracking correctly, with the drum raised off the floor, photo 31, start the machine.

Minor tracking adjustments can be made with the drum raised and the machine running.



30. Belt tracking adjustment screw.



31. Control handle up, drum raised off the floor.

HOW TO OPERATE THE FLOOR SANDER

To set-up your machine follow this procedure:

1. Familiarize yourself with the machine and read all danger, warning and caution statements. Make sure all operators of this machine have read this Operator's Manual. If they cannot read English, have the manual explained fully before allowing anyone to operate the sander.
2. Locate the power supply. The receptacle should be compatible with the plug. The receptacle must be grounded and must be fused (30 amp) to avoid an electrical hazard.
3. Make sure the drum is raised off the surface. Control handle in the **UP** position.
4. Install a new abrasive belt, drum or belt as per the instructions.
5. Close the access cover and fasten to secure the cover.

DANGER: Serious damage can occur to the floor surface if the machine is not in motion while the contact wheel is running on the floor surface. To prevent damage to the surface, make sure the machine is always moving when the contact wheel is in contact with the floor.

To operate the machine follow this procedure:

1. Put the On/Off switch into the "ON" position.
2. Work left to right. For each forward pass, move the machine 4" over the pass you have just finished. Retrace your reverse path without overlapping.
3. Feather-cut in by using the control lever to ease the drum down onto the surface while the sander is in motion.
4. When drum is fully engaged with the surface, gradually adjust your pace for adequate finish removal. Keep sander in motion while drum is engaged with the surface or dwell marks will occur.
5. Move the machine in the direction of the wood grain whenever possible. Sand the surface at a constant pace.
6. Gradually feather-cut out at the termination point (the end of your pass) by easing the drum up with the control lever. Stagger the termination points for a better blend when edging.
7. Empty dust bag whenever it is $\frac{1}{2}$ full. Never leave a dust bag unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion.
Empty dust into a metal container located outside of the building.

JOB COMPLETION

1. Raise drum off the surface before stopping the machine.
2. Turn off the machine.
3. Empty the dust bag. Never leave any debris in the dust bag.
4. Prepare the machine for transport.

TROUBLESHOOTING

Problem	Action
Machine will not start.	1. Check the power supply. 2. Check the power cords. 3. Check the off/on switch. 4. Check the motor fuses. 5. Check for loose connections. 6. Call your distributor or Galaxy.
Motor starts but has no torque.	1. Check the power supply and make sure it's 220 volts 2. Check the drive belts for proper tension. 3. Check the running capacitor. 4. Check for ceased fan or drum bearings. 5. Check for loose connections. Note: If voltage is low, ease up on the pressure. When using extra power lines use #8 wire.
Machine makes noise.	1. Check the fan bearing. Remove drum belt and run fan only. 2. Check the drum bearing. Remove fan belt and run drum only. 3. Check the motor bearing. Remove drum and fan belts and run motor only.
Machine vibrating.	1. Check drum drive belt for wear. 2. Check fan drive belt for wear. 3. Check pulleys for wear. 4. Check top roller of belt mechanism for debris or worn bearings. 5. Check that proper size wedges are installed in the drum 6. Check for dust accumulation around the drum. 7. Check the sanding belts. Make sure there are no creases in the paper. Use good quality sandpaper.
Poor dust pickup.	1. Check belt tension on fan pulley. 2. Check that the idle arm moves freely. 3. Check the spring tension on the idle arm. 4. Remove clean out cover and check for debris or broken sandpaper in the fan housing. 5. Remove dust bag, empty, shake, and turn inside out and shake. Dust accumulates in the pores of the dust bag. Wash the bag regularly.

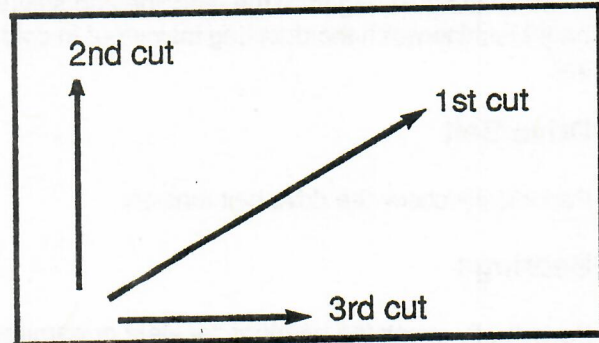
TROUBLESHOOTING

Problem

Action

Gouges.

1. Check for debris accumulation on the front and back wheels.
2. When operating the floor sander maintain a steady, even, walking pace. Do not jerk or suddenly pull the machine.
3. When sanding the floor on its return path, retain the same speed as the forward motion. This will allow the floor sander to smooth the floor.
4. When sanding parkay or herringbone, first cut the floor on a 45 degree angle. The second cut should be straight and the third cut is with no pressure.



Lines--uneven cuts or deep cuts
at the side of the drum.

1. Adjust the front wheels.
2. Adjust the back wheels.
3. Check sanding paper for nail cuts or burn marks.
Replace paper. Always use a good quality paper.

Chatter marks.

1. Make sure the wedges are properly installed.
2. Check for dust accumulation on the drum.
3. Check the quality of the sanding belts.
4. Check drum drive belt for uneven stretch.
5. Check that the sanding belt is properly installed.

ROUTINE MAINTENANCE

The following items need to be periodically inspected and maintained to keep your sander in good working condition.

Drum Housing

Periodically blow out the dust from the drum housing to prevent large accumulations of debris which could interfere with the performance of the tension roller.

Wheels

Periodically remove the debris from the front and rear wheels. Debris can cause an uneven cut.

Dust Bag

Remove the dust bag from the machine and shake it thoroughly to remove the sanding dust from the dust bag. Machine wash the dust bag inside out in cold water to prevent pore blockage and loss of dust recovery.

Drive Belt

Periodically check the drive belt tension.

Bearings

Periodically check the bearings for wear or damage.

Rollers

Periodically check the guide rollers and the tension roller for wear.

MAINTENANCE

Note:

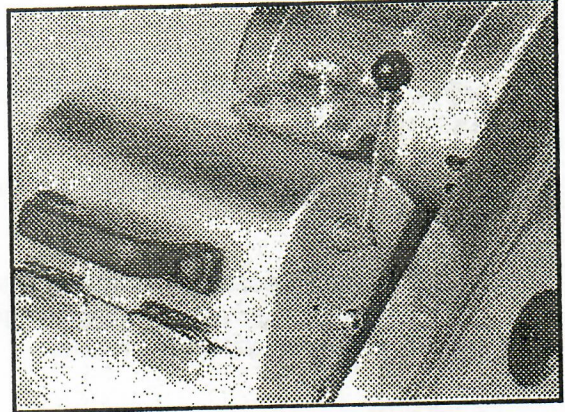
Check for debris on the top sanding belt roller and clean periodically. The mechanism must be removed for cleaning after each job.

1. Raise the belt tension lever, as shown in photo 32.
2. Open the side drum cover and remove the front drum cover.
3. Lift up on the centre of the top roller mechanism, as shown in photo 33.
4. Remove. Clean top roller of any dust or debris. Clean and grease centre shaft. Check side roller bearings for wear, photo 34.
5. Re-install.

Note:

The top sanding belt roller mechanism should be inspected for debris before beginning a sanding session.

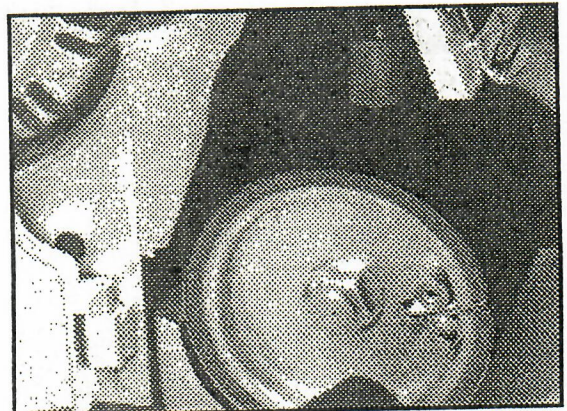
Dust and debris can make the roller difficult to adjust.



32. Belt tension lever.



33. Remove roller mechanism.



34. Clean thoroughly.

MAINTENANCE

Note:

One grease fitting is used to grease both sides of the fulcrum carriage.

1. Grease the side of the machine with the grease fitting, photo 35.
2. Remove the grease fitting and use it to grease the other side of the machine. Remove the grease cap and install the fitting as shown in photo 36.
3. Grease.
4. Remove fitting and re-install grease cap.
5. Re-install grease fitting in its original location.

Note:

Always re-install the grease fitting to its original location. This will maintain a smooth edge to the machine for getting in close to walls.

VACUUM:

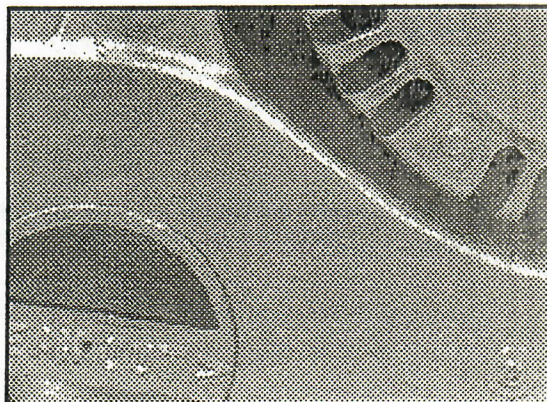
When dust pickup is weak or reduced, check the idler arm assembly, as shown in photo 37.

1. Clean and lubricate the idler arm until it moves freely.

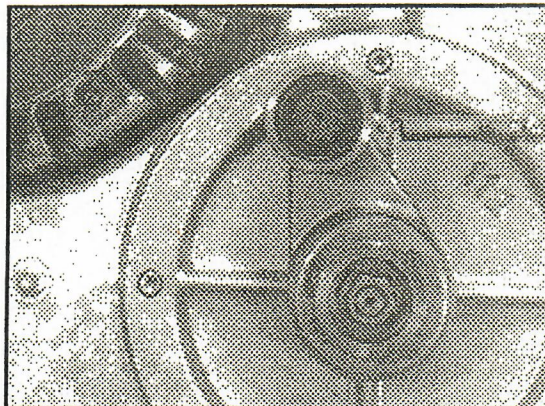
The idler arm determines the tension on the fan drive belt and vacuum fan speed. Dust and debris can inhibit performance.



35. Grease nibble.



36. Remove grease cap, install grease fitting.



37. Vacuum idler arm assembly.

VACUUM:

The clean out cover should be removed regularly so that the buildup of debris can be removed, as shown in photo 38.

Accumulated debris reduces dust pickup.

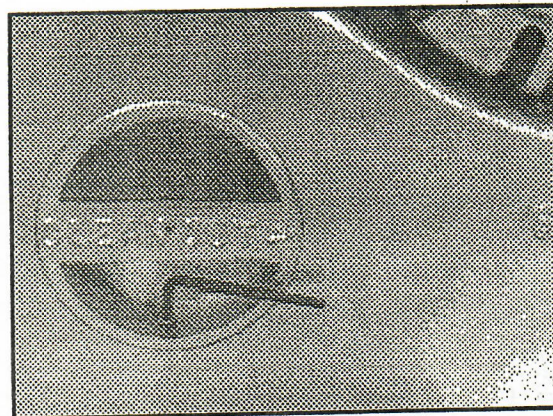
Check this area whenever dust pick-up is reduced.

DUST PIPE ELBOW:

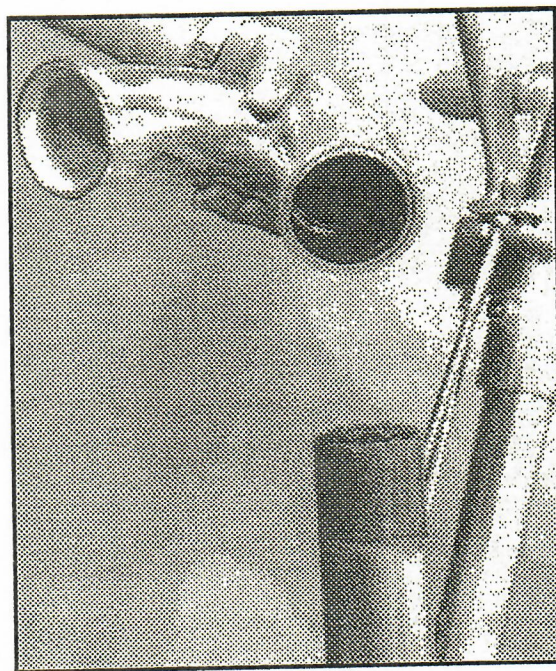
Note:

Do not remove dust pipe elbow with the dust bag attached.

1. Remove the dust bag from the dust elbow.
2. Remove the dust elbow, as shown in photo 39, to check for dust accumulation between the seals.
3. Clean contaminated grease out of seals and re-pack with new grease.
4. Re-attach dust elbow.



38. Use the key provided to remove the dust cover.



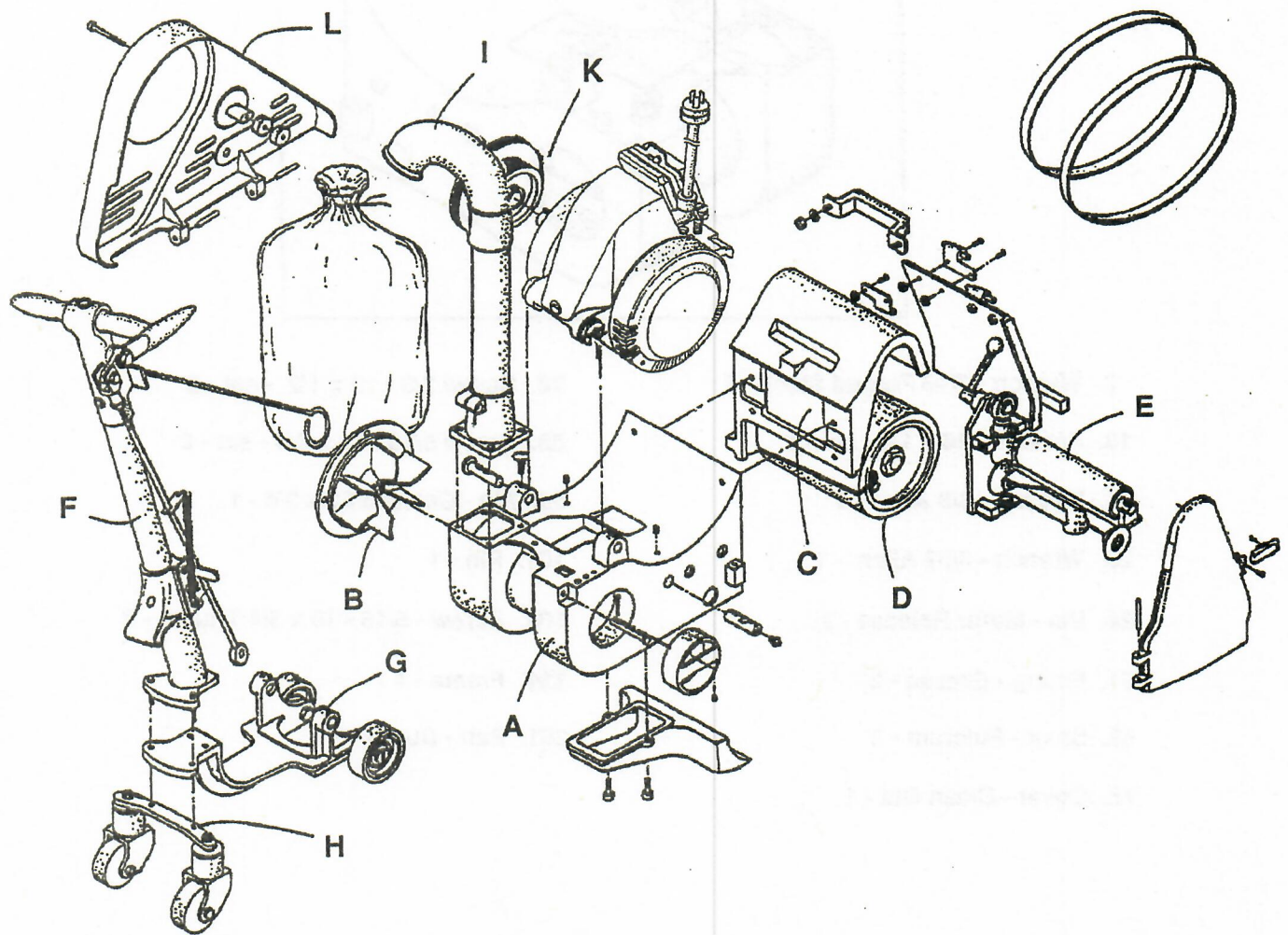
39. Clean out contaminated grease in seals and repack.

SECTION THREE MACHINE SCHEMATICS

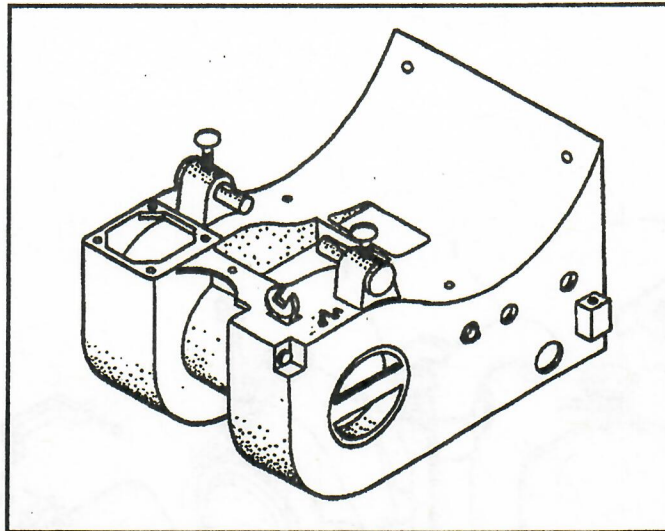
GET TO KNOW YOUR GALAXY. MACHINE SCHEMATICS

- A. Frame Assembly**
- B. Fan Assembly**
- C. Drum Housing & Drum Covers**
- D. Drum Assembly**
- E. Sanding Belt Guide Assembly**
- F. Control Lever and Spring Adjustments**
- G. Wheel Carriage Assembly**
- H. Rear Wheel Assembly**
- I. Dust Pipe and Elbow Assembly**
- J. Electrical**
- K. Motor**
- L. Drive Belt and Cover**
- M. Handles, Power Cord & Tools**

GALAXY FLOOR SANDER AN OVERVIEW

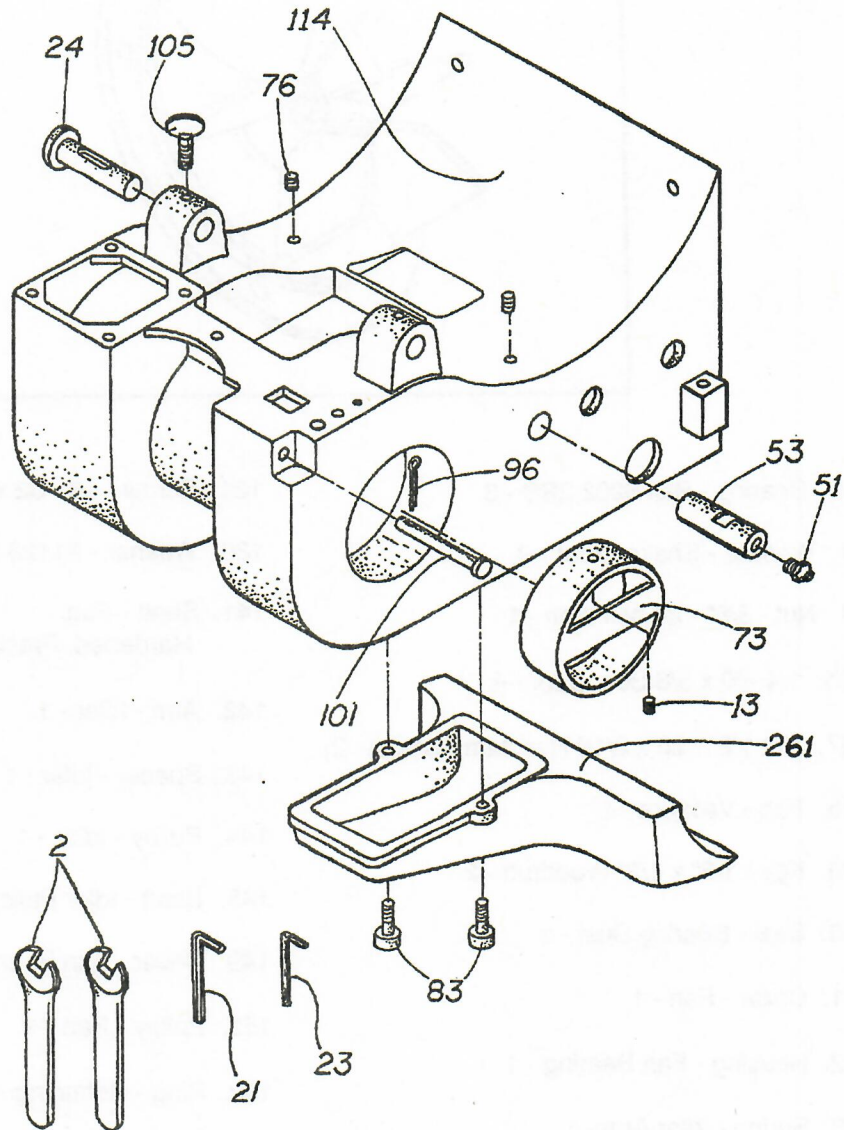


FRAME ASSEMBLY BREAKDOWN SECTION A

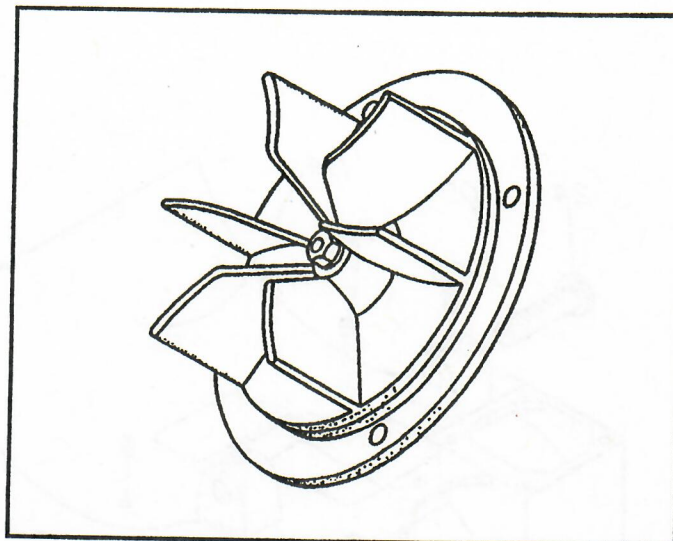


- | | |
|-----------------------------------|--|
| 2. Wrench - 7/16 Forged Steel - 2 | 76. Screw 3/8 - 16 x 1/2 - set - 2 |
| 13. Screw - 5/16 x 1/4 - set - 1 | 83. Screw 5/16 - 18 x 3/4 - set - 2 |
| 21. Wrench - 3/8 Allen - 1 | 96. Pin - Cotter 3/32 x 3/4 - 1 |
| 23. Wrench - 3/32 Allen - 1 | 101. Pin - 1 |
| 24. Pin - Motor Release - 2 | 105. Screw - 5/16 - 18 x 3/4 Thumb - 2 |
| 51. Fitting - Grease - 2 | 114. Frame - 1 |
| 53. Shaft - Fulcrum - 2 | 261. Pan - Dust - 1 |
| 73. Cover - Clean Out - 1 | |

FRAME ASSEMBLY BREAKDOWN SECTION A

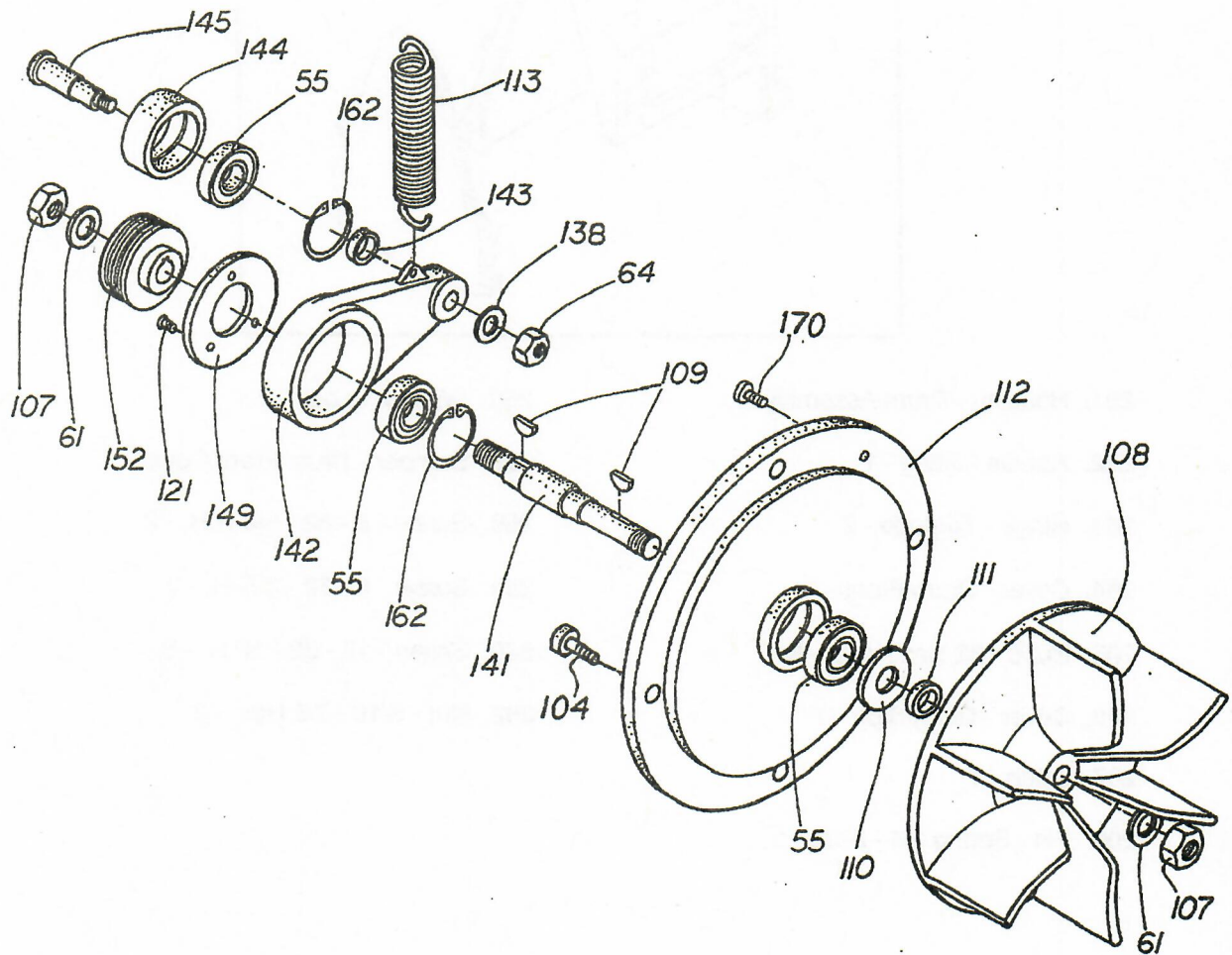


VACUUM FAN ASSEMBLY SECTION B

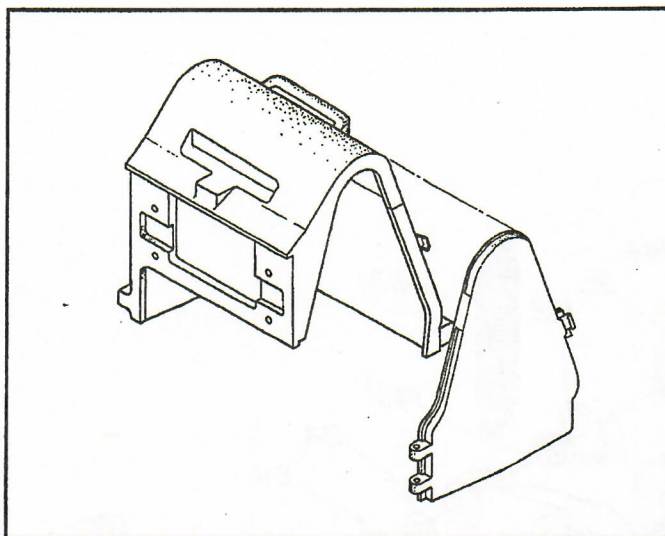


- | | |
|--|---|
| 55. Bearing - Ball 6202 2RS - 3 | 121. Screw - #8 - 32 x 1/2 F.H. Machined - 3 |
| 61. Washer - Shake-proof - 2 | 138. Washer - #1120 Shake-proof - 1 |
| 64. Nut - 3/8" - 24 hex Jam - 1 | 141. Shaft - Fan.
Hardened, Precision Ground - 1 |
| 104. 1/4 -20 x 5/8 Soc. Cap. - 4 | 142. Arm - Idler - 1 |
| 107. Nut. 1/2" - 20 x 3/16 Hex Jam Special - 2 | 143. Spacer - Idler - 1 |
| 108. Fan - Vacuum - 1 | 144. Pulley - Idler - 1 |
| 109. Key - 1/8" x 1/2" Woodruff - 2 | 145. Shaft - Idler Pulley - 1 |
| 110. Seal - Bearing Dust - 1 | 149. Cover - Fan Bearing Retaining - 1 |
| 111. Collar - Fan - 1 | 152. Pulley - Fan - 1 |
| 112. Housing - Fan Bearing - 1 | 162. Ring - Retaining - 2 |
| 113. Spring - Idler Arm - 1 | 170. Screw - 10-24 x 3/8 R.H. |

FAN ASSEMBLY SECTION B



HOUSING - DRUM SECTION C



201. Housing - Drum Assembly -1

202. Handle - lifting - 1

203. Hinge - Torpedo - 2

204. Cover - Drum Front - 1

205. Nut 8 - 32 Hex Keps. - 8

206. Cover - Drum Side - 1

207. Latch - 1

208. Pin - Spring 1/4 - 2 1/2 - 1

253. Washer - Lock - 2

256. Bumper - Drum Front Cover - 1

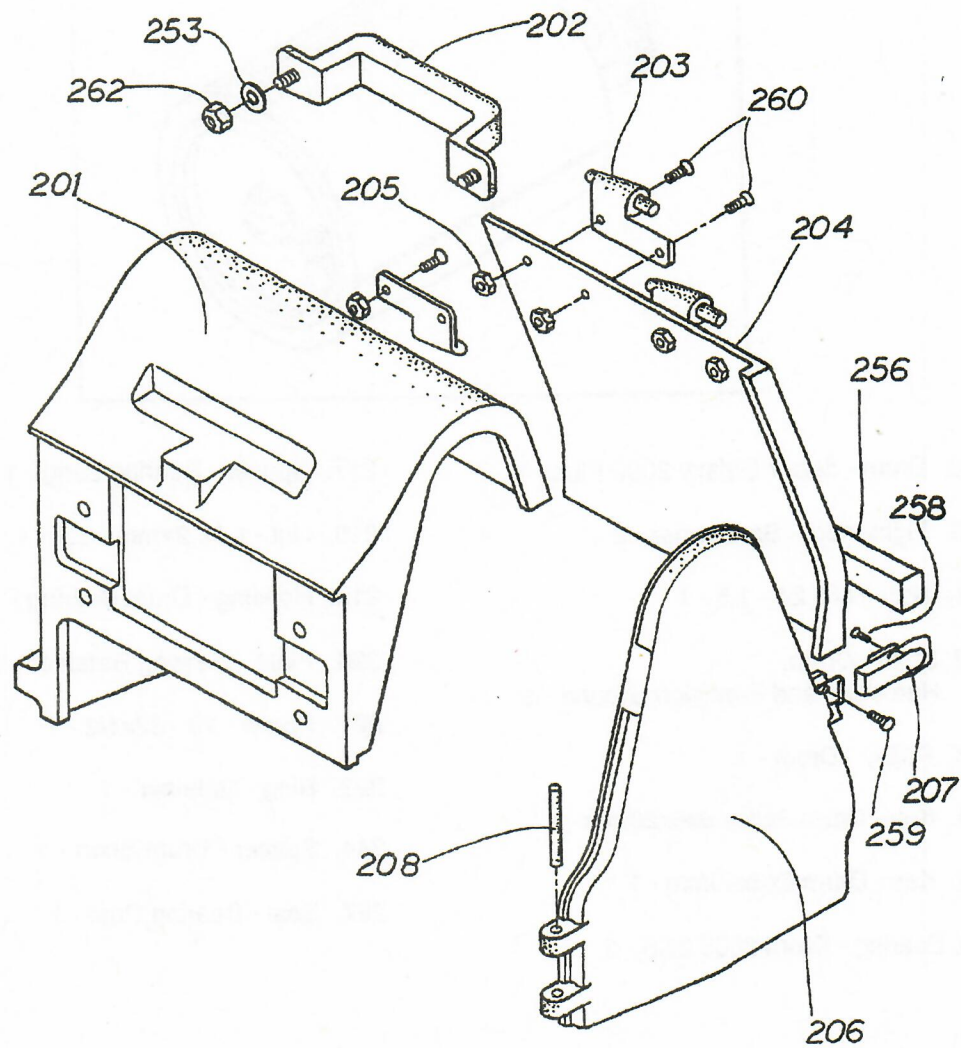
258. Screw - 6 - 32 - 5/8 R.H. - 2

259. Screw - 6 - 32 - 1 R.H. - 2

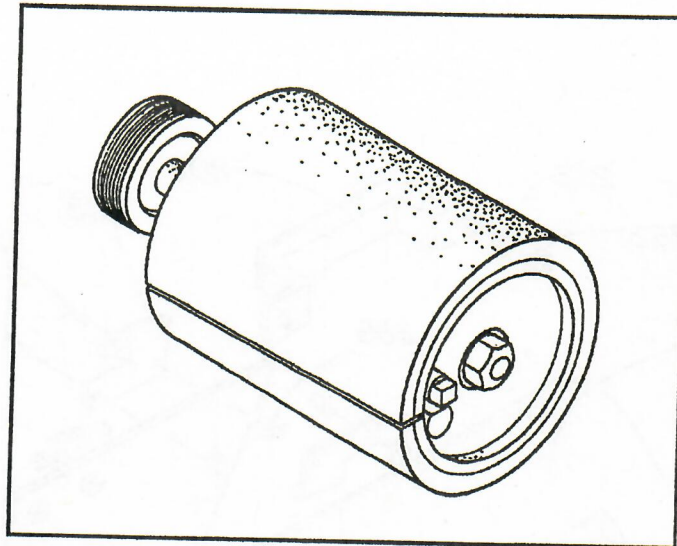
260. Screw - 10 - 32 - 1F.H. - 8

262. Nut - 5/16 - 7/8 Hex. - 2

DRUM COVERS SECTION C



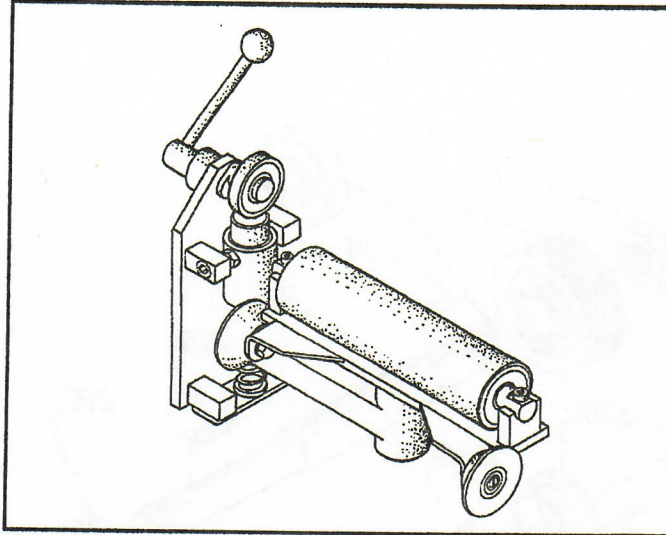
GALAXY DRUM ASSEMBLY SECTION D



- | | |
|--|-----------------------------------|
| 209. Drum - Super Galaxy 2000 Plus - 1 | 217. Spacer - Bearing Long - 1 |
| 210. Tighteners - Sandpaper - 2 | 218. Nut - L.H. 24mm - 1.5 - 1 |
| 211. Nut - R.H. 24 - 1.5 - 1 | 219. Housing - Drum Bearing - 1 |
| 212. Shaft - Drum.
Hardened and Precision Ground - 1. | 220. Plate - Bearing Retainer - 1 |
| 213. Pulley - Drum - 1 | 221. Screw - 10 - 32x1/2 - 1 |
| 214. Key - Drum Pulley 6x6x20mm - 1 | 222. Ring - Retainer - 1 |
| 215. Key - Drum 6x6x40mm - 1 | 244. Spacer - Drum Short - 1 |
| 216. Bearing - Drum 6005 2RS - 3 | 257. Seal - Bearing Dust - 1 |

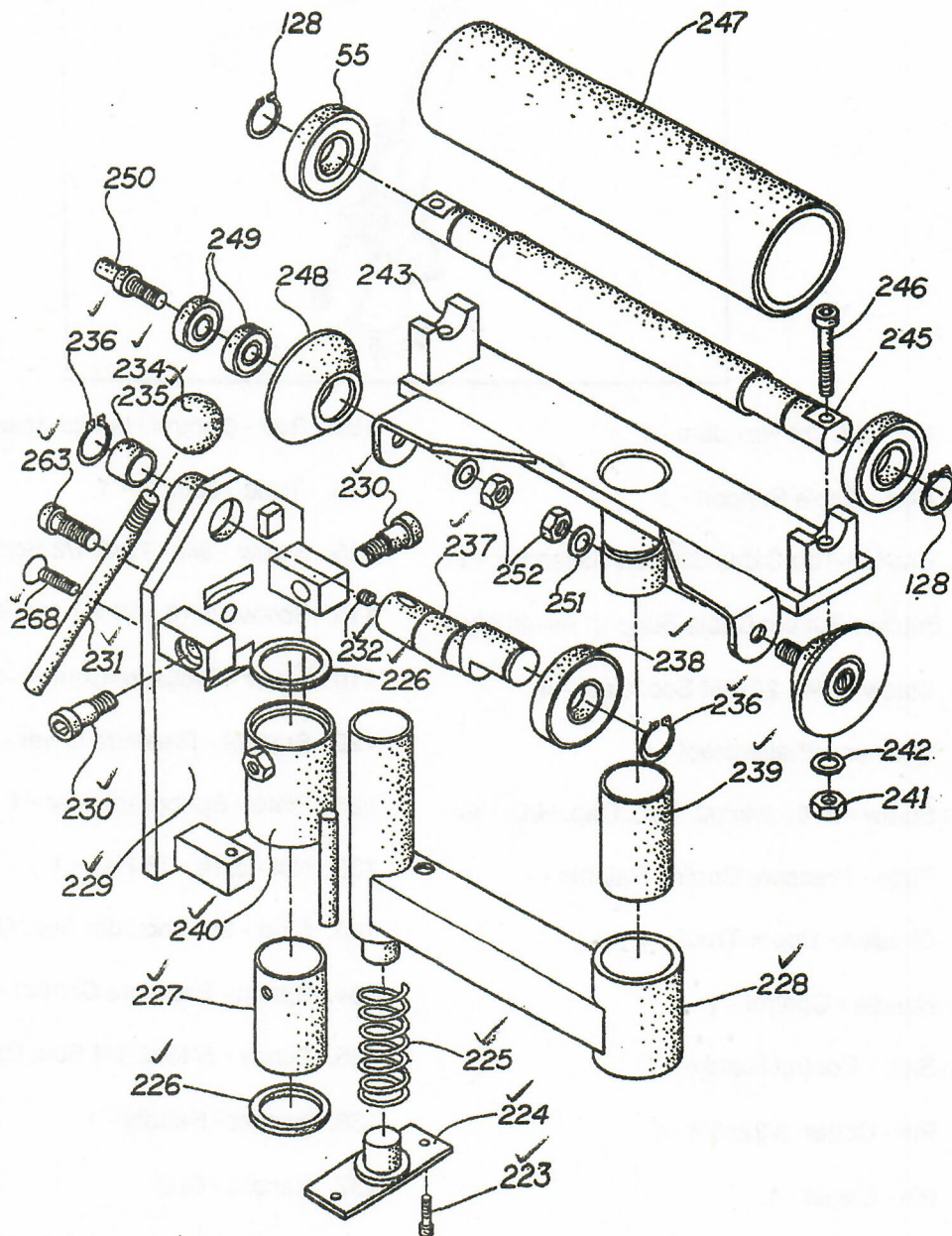
This exploded perspective view illustrates the assembly of a mechanical device. The main components are labeled with reference numerals: 209 (a large cylindrical housing), 210 (a small rectangular block), 211 (a large threaded cap), 212 (a long central shaft), 213 (a small pin), 214 (a small bush), 215 (a small rectangular block), 216 (multiple washers or spacers), 217 (a small ring), 218 (a nut), 219 (a smaller cylindrical component), 220 (a small ring), 222 (a small ring), 233 (a small pin), 244 (a small ring), 257 (a small ring), and 258 (a small rectangular block). The assembly is shown in a disassembled state, with components arranged to show their relative positions and how they fit together.

SANDING BELT GUIDE MECHANISM SECTION E

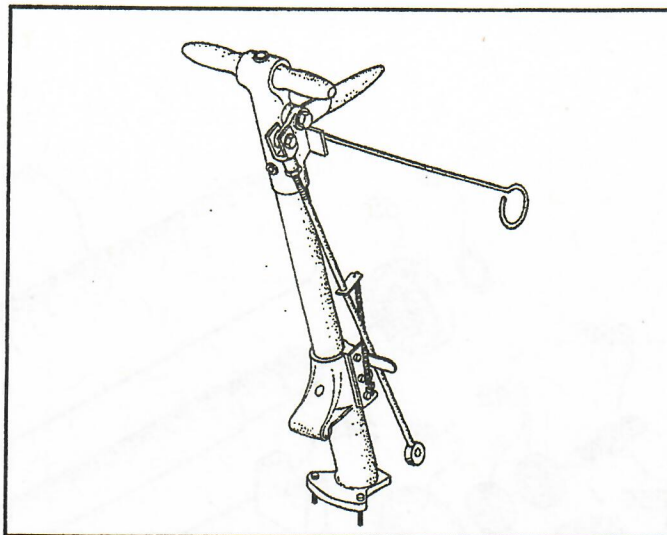


- | | |
|--|--|
| 55. Bearing - 6202 2RS - 2 | 238. Bearing - 6202/15.875 2RS - 1 |
| 128. Ring - Retaining 15mm - 2 | 239. Bushing - Sleeve 1" - 1 |
| 223. Screw - 10 - 24x1/2 Soc. Cap. - 2 | 240. Housing - Adjusting Cylinder - 1 |
| 224. Bracket - Tension Spring - 1 | 241. Nut - 1/4 - 28 Hex. Jam - 2 |
| 225. Spring - Tension - 1 | 242. Washer - Lock 1/4 - 2 |
| 226. Seal - Dust - 2 | 243. Bracket - Tension Roller - 1 |
| 227. Bearing - Sleeve - 1 | 245. Shaft - Tension Roller - 1 |
| 228. Arm - Tension Support - 1 | 246. Screw - 1/4 - 28x1 3/4 Soc. Cap. - 2 |
| 229. Plate - Support Mechanism - 1 | 247. Roller - Tension - 1 |
| 230. Screw 5/16x3/8 Shoulder - 2 | 248. Roller - Sandpaper Guide - 2 |
| 231. Lever - Release - 1 | 249. Bearing - 602 D - 4 |
| 232. Screw - Set 1/4x1/4 - 1 | 250. Shaft - Sandpaper Guide Roller - 2 |
| 234. Knob - Lever - 1 | 251. Washer - Lock - 2 |
| 235. Bearing - Needle SCE 1010 - 1 | 252. Nut - 6mm Hex. Jam - 2 |
| 236. Ring - Retaining 5/8 - 2 | 263. Screw - 5/16 - 24x1 Soc. Cap. - 1 |
| 237. Shaft - Roller Release Guide - 1 | 268. Screw - 1/4 - 24x3/4 Flat Soc. Cap. - 4 |

SANDING BELT GUIDE MECHANISM SECTION E

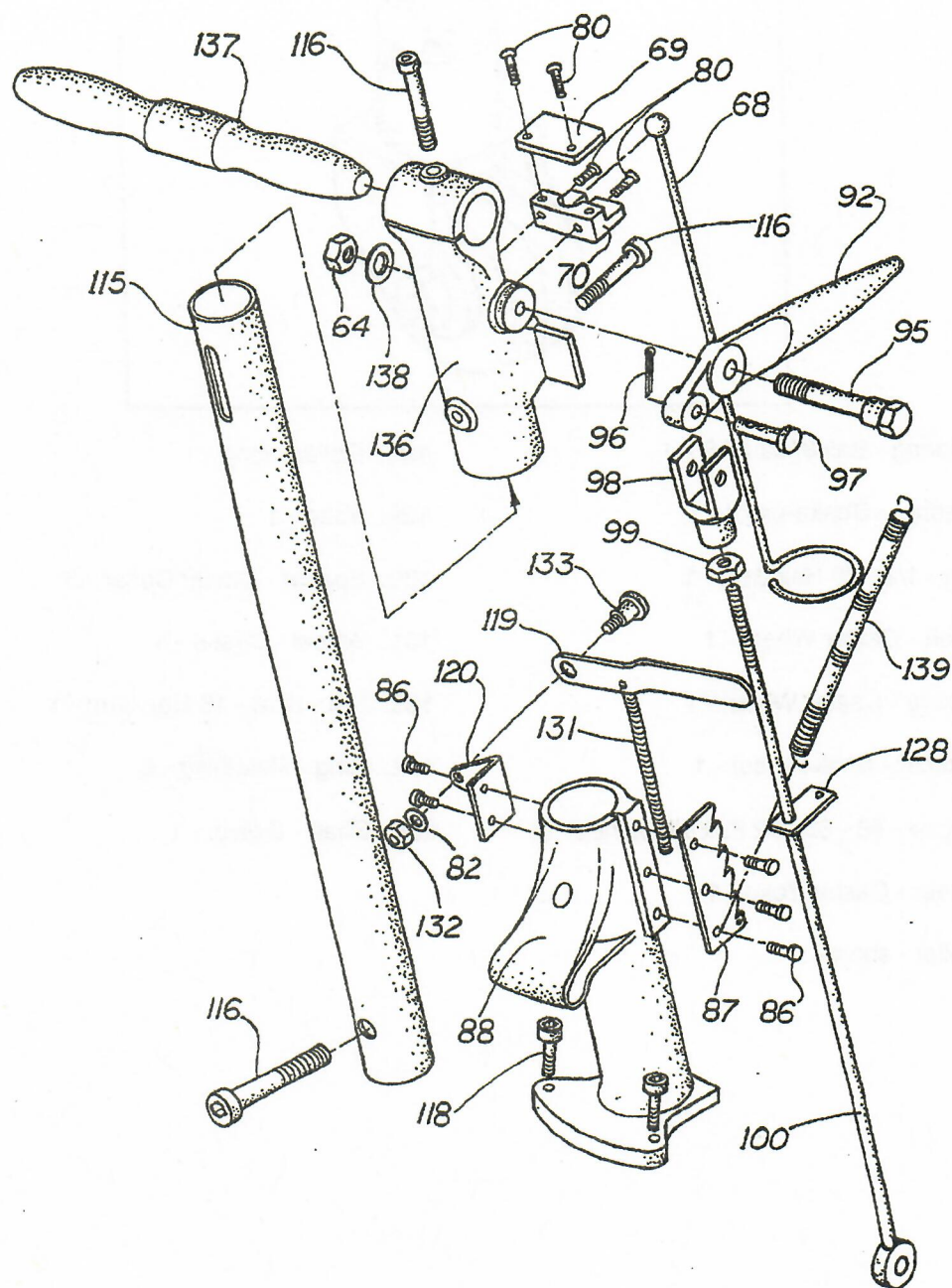


CONTROL LEVER AND SPRING ADJUSTMENTS SECTION F

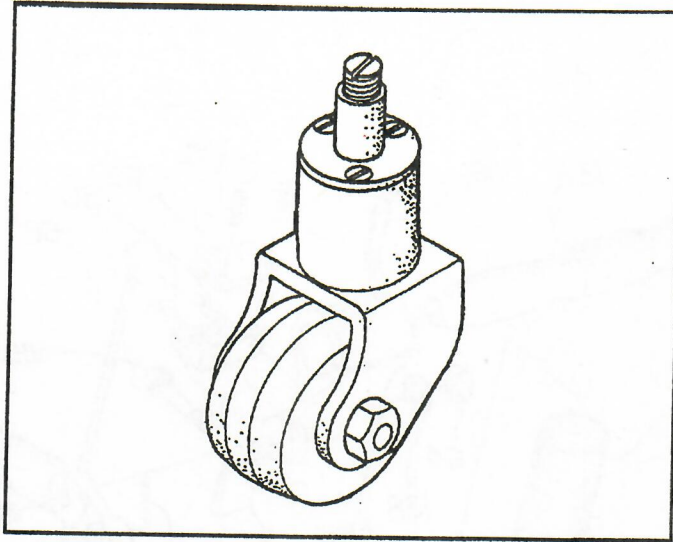


- | | |
|---|---|
| 64. Nut - 3/8 -24 Hex Jam - 1 | 100. Rod - Control Handle Assembly - 1 |
| 68. Rod - Cable Support - 1 | 115. Tube - Handle - 1 |
| 69. Bracket-Top Cable Support Assembly - 1 | 116. Screw - 3/8 - 16x2 1/2 Soc. Cap. - 3 |
| 70. Bracket-Bottom Cable Support Assembly-1 | 118. Screws 5/16 - 18 x 1 1/4 Soc. Cap. - 2 |
| 80. Screw - 1/4 - 20x3/4 Soc. Cap. - 4 | 119. Lever - Pressure Control -1 |
| 82. Washer - Shake-proof - 1 | 120. Bracket - Pressure Lever - 1 |
| 86. Screw - #10 - 24x1/2 Soc. Cap. H.D. - 5 | 123. Plate - Spring Adjuster - 1 |
| 87. Plate - Pressure Control Ratchet - 1 | 132. Nut - 5/16 - 18 Hex - 1 |
| 88. Chassis - Upper Truck - 1 | 133. Stud - 3/8 Shoulder Soc. Cap. - 1 |
| 92. Handle - Control - 1 | 134. Spring - Pressure Control - 1 |
| 95. Stud - Control Handle - 1 | 135. Screw - 5/16x2 1/4 Soc. Cap. - 1 |
| 96. Pin - Cotter 3/32x3/4 - 1 | 136. Bracket - Handle - 1 |
| 97. Pin - Clevis - 1 | 137. Handle - Grip |
| 98. Yoke - Control Handle Rod - 1 | 138. Washer - Shake-proof #1120 - 12 |
| 99. Nut - 3/8 - 16x5/16 Hex - 1 | 139. Spring - 1 |

CONTROL LEVER AND SPRING ADJUSTMENTS SECTION F

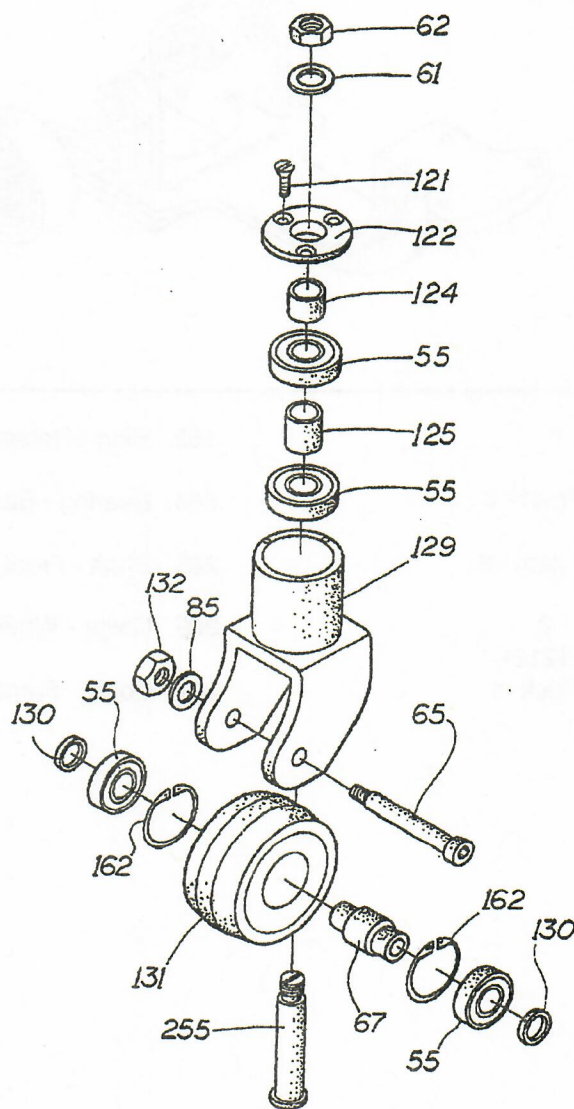


REAR WHEEL ASSEMBLY SECTION H

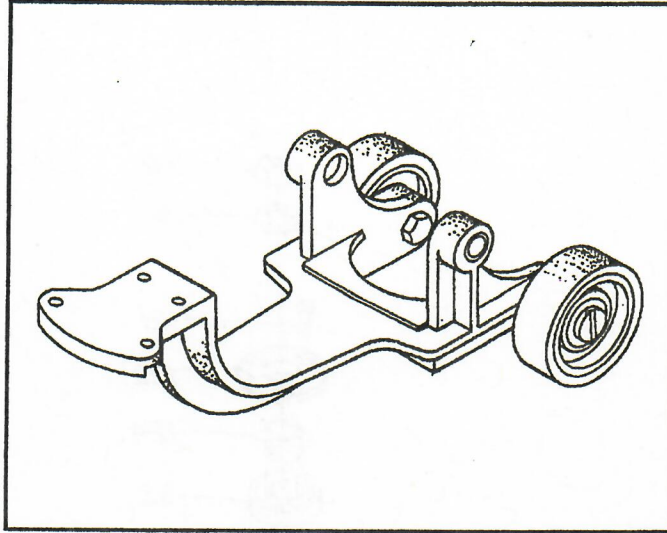


- | | |
|--|----------------------------------|
| 55. Bearing - Ball 6202 2RS - 4 | 125. Collar - long - 1 |
| 61. Washer - Shake-proof - 1 | 129. Yoke - 1 |
| 62. Nut - 1/2 - 20 Hex Jam - 1 | 130. Spacer - Caster Collar - 2 |
| 65. Shaft - Caster Wheel - 1 | 131. Wheel - Caster - 1 |
| 67. Sleeve - Caster Wheel - 1 | 132. Nut - 5/16 - 18 Hex Jam - 1 |
| 85. Washer - Shake-proof - 1 | 162. Ring - Retaining - 2 |
| 121. Screw - #8 - 32x1/2 F.H. Machined - 3 | 255. Shaft - Swivel - 1 |
| 122. Cover - Caster Yoke - 1 | |
| 124. Collar - short - 1 | |

REAR WHEEL ASSEMBLY SECTION H



WHEEL CARRIAGE ASSEMBLY SECTION G



56. Wheel - Front - 2

61. Washer - Shake Proof - 2

62. Nut - 1/2 - 20 Hex Jam - 2

90. Bearing - Needle - 2
M-12121 or BCE 12121

91. Chassis - Lower Truck -1

162. Ring - Retaining - 4

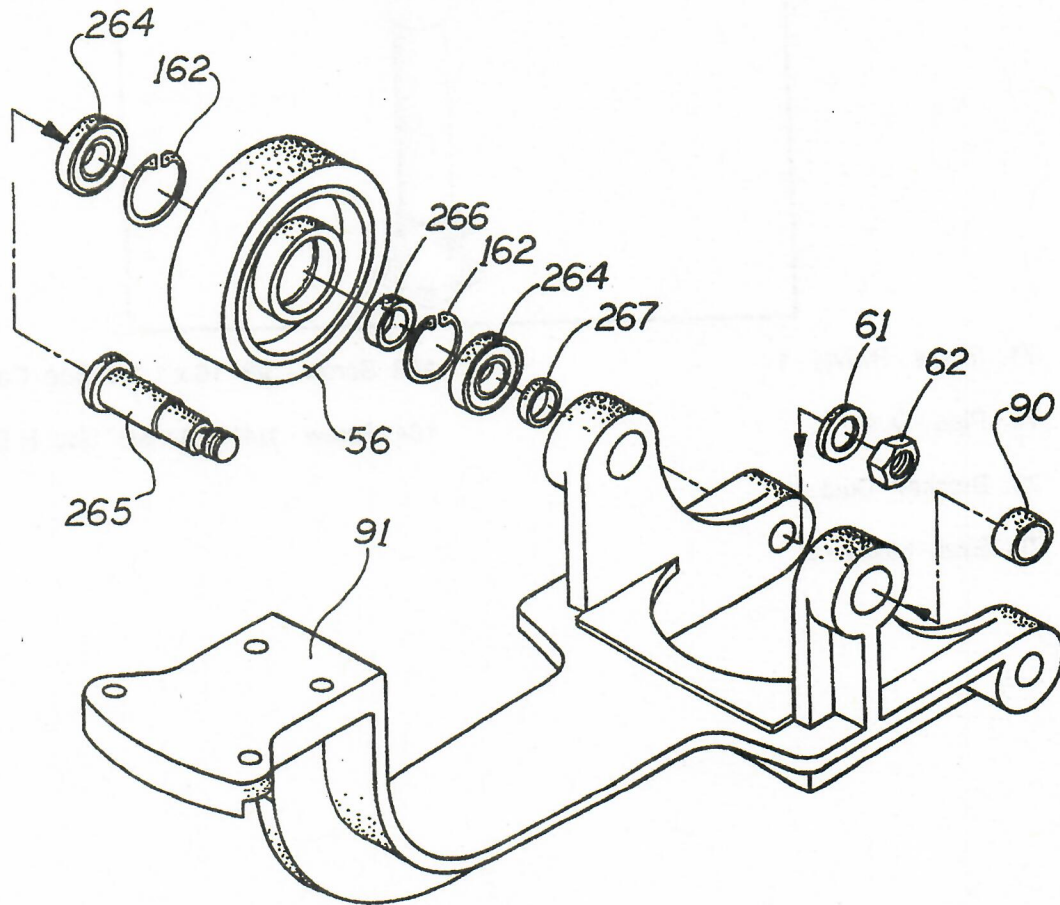
264. Bearing - Ball 6003 2RS - 4

265. Shaft - Front Wheel - 2

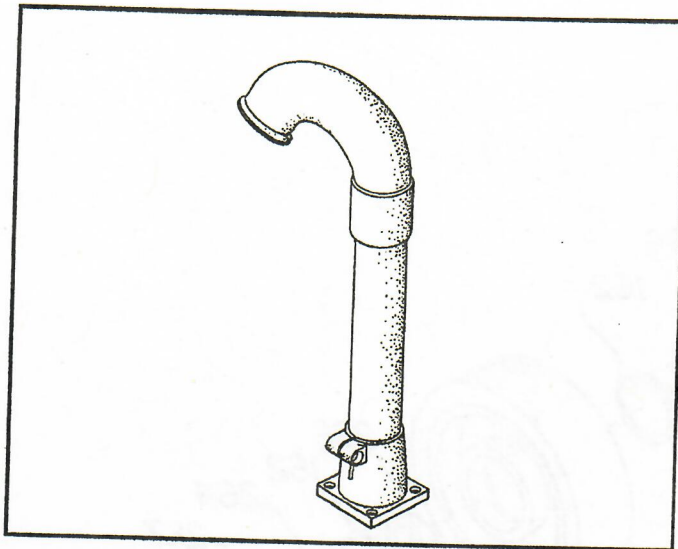
266. Collar - Wheel Spacer - 2

267. Collar - Front Wheel Spacer - 2

WHEEL CARRIAGE ASSEMBLY SECTION G



DUST PIPE ASSEMBLY SECTION I



71. Elbow - Swivel - 1

72. Pipe - Dust - 1

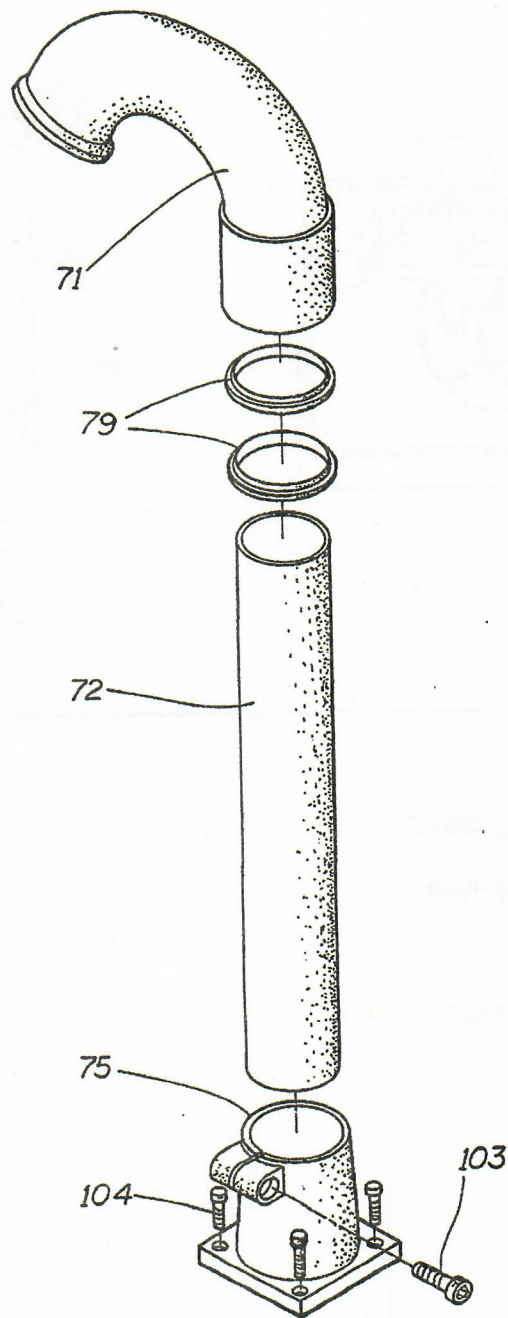
75. Bracket - Dust - 1

79. Seal - Elbow - 2

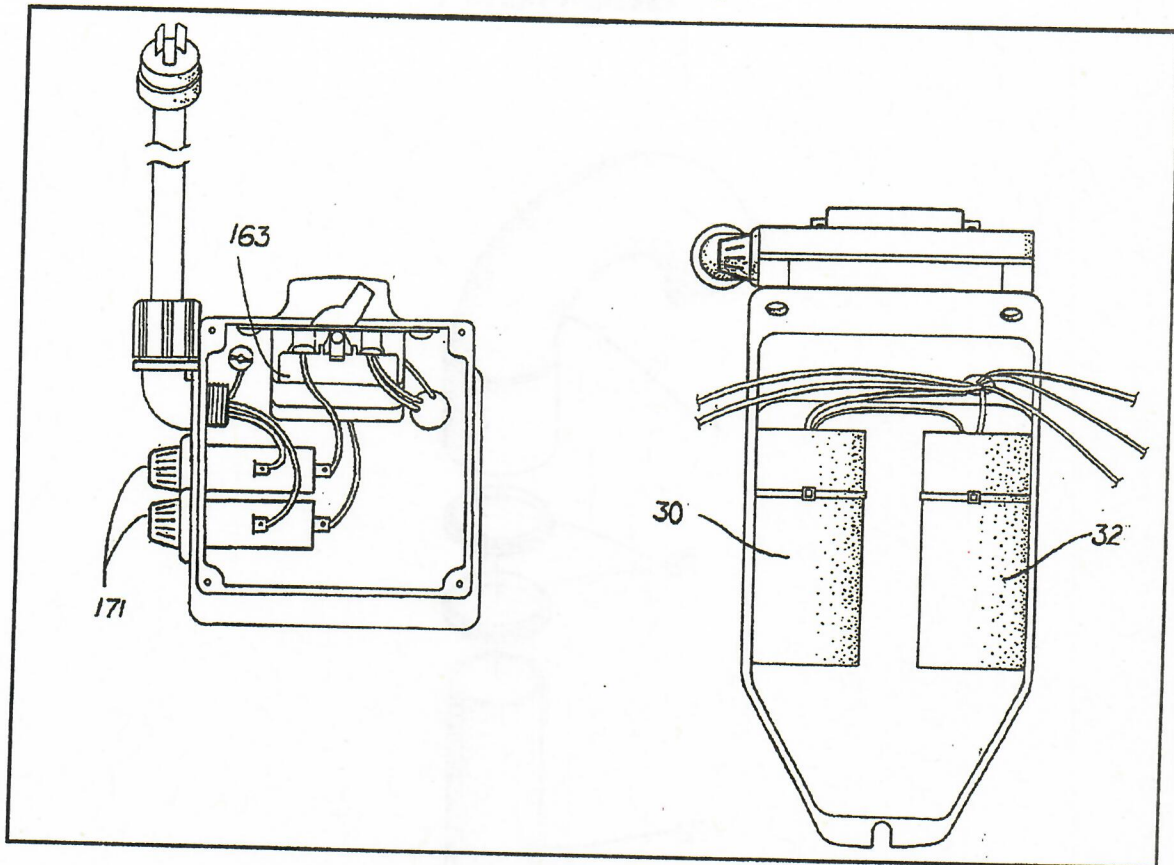
103. Screw - 3/8- 16 x 1 1/4" Soc. Cap - 1

104. Screw - 1/4" - 20 x 5/8" Soc. H.D. - 4

DUST PIPE AND ELBOW ASSEMBLY SECTION I



ELECTRICAL SECTION J



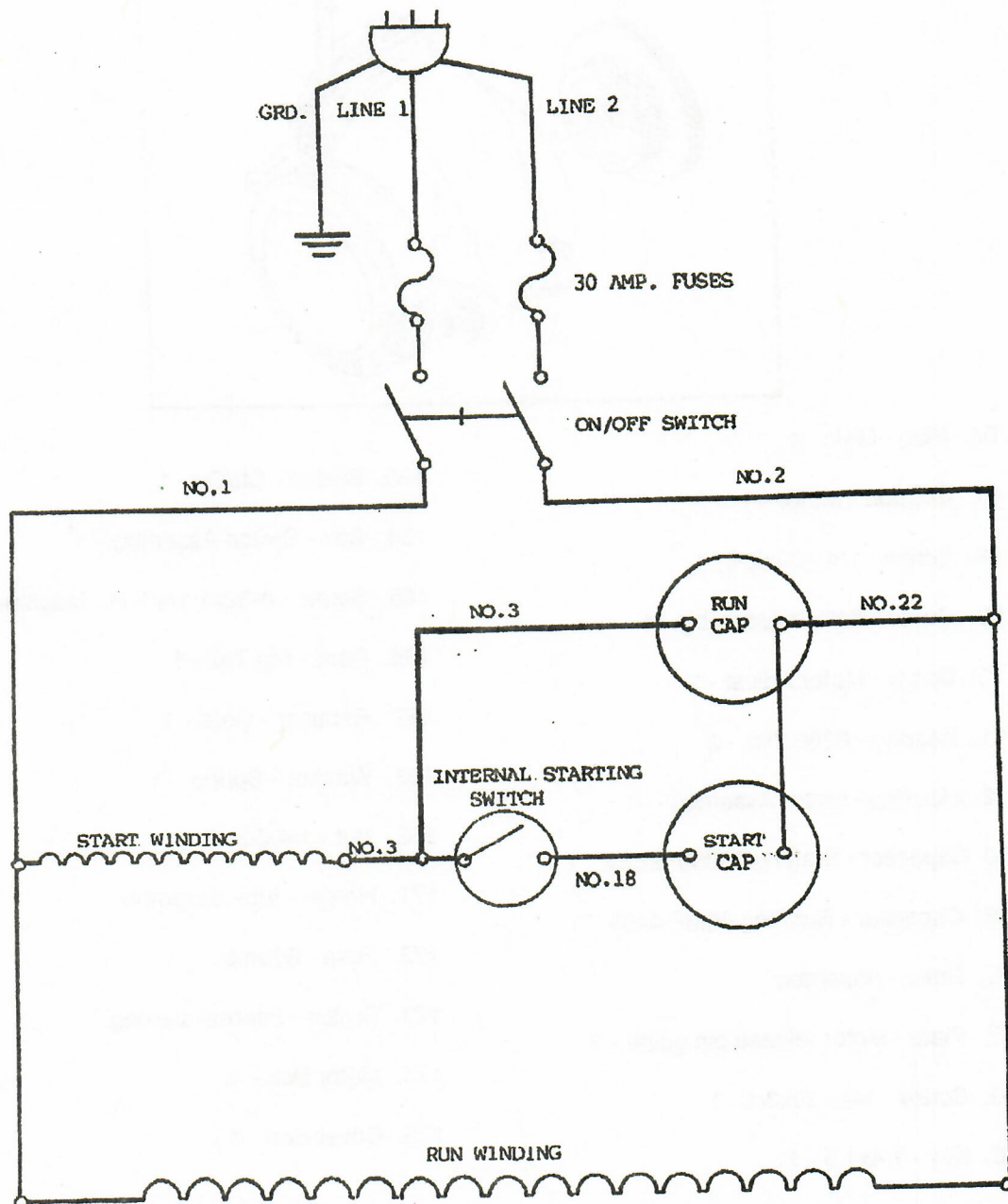
30. Capacitor.- starting 380MF.

32. Capacitor - running 40MF

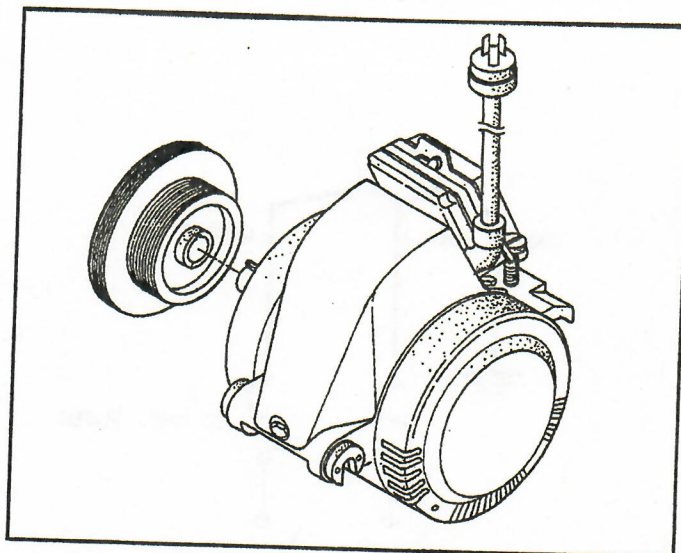
163. Switch - on/off

171. Holder - fuse assembly

ELECTRICAL SECTION J

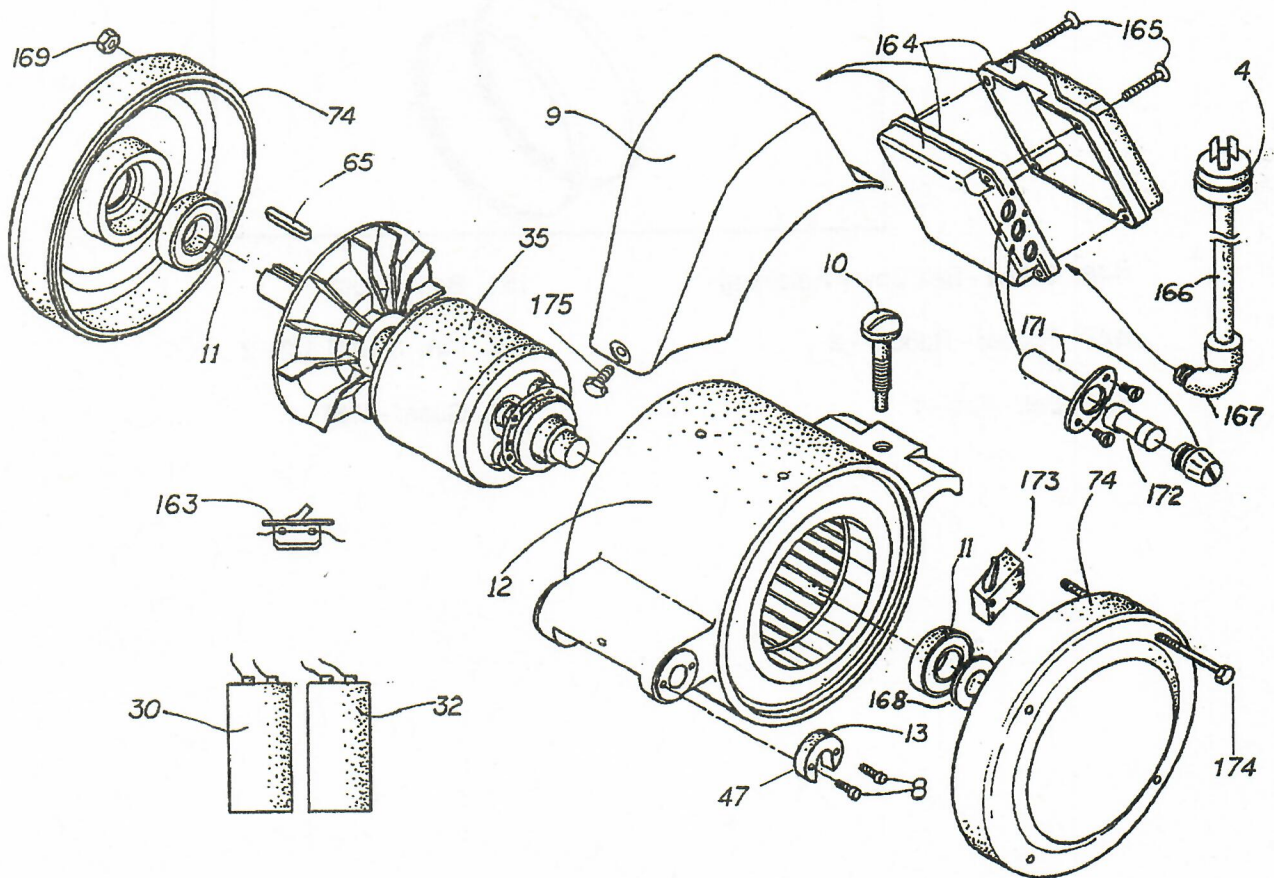


MOTOR ASSEMBLY SECTION K

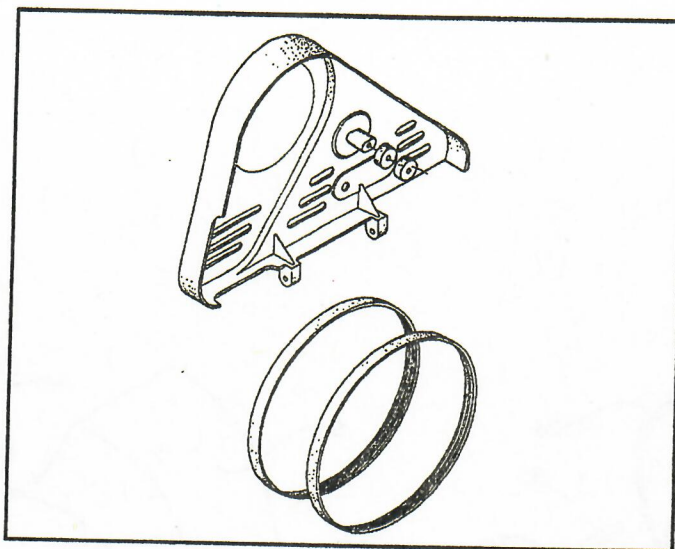


- | | |
|---|---|
| 04. Plug - Male - 1 | 163. Switch - Off/On - 1 |
| 07. Support - Motor - 1 | 164. Box - Switch Assembly - 1 |
| 08. Screw - 1/4 - 20x3/4 - 1 | 165. Screw - 8-32x1 1/4 F.H. Machined - 1 |
| 09. Cover - Switch Assembly - 1 | 166. Cord - Pig Tail - 1 |
| 10. Screw - Motor Adjust - 1 | 167. Retainer - Cord - 1 |
| 11. Bearing - 6206 2Rs - 2 | 168. Washer - Spring - 1 |
| 12. Housing - Motor Assembly - 1 | 169. Nut - 1/4-20 - 3 |
| 30. Capacitor - Starting 380MF 260V - 1 | 171. Holder - fuse assembly |
| 32. Capacitor - Running 40MF 440V - 1 | 172. Fuse - 30amp. |
| 35. Rotor - Assembly | 173. Switch - internal starting. |
| 47. Plate - Motor release pin guide - 2 | 174. Motor Bolt - 4. |
| 59. Screw - 1/4 - 20x3/4 - 1 | 175. Cover Bolt - 1 |
| 60. Key - 1/4x1.5 - 1 | |
| 74. Bell - End - 2 | |

MOTOR SECTION K



DRIVE BELT AND COVER SECTION L



146. Screw - Belt Cover Retaining - 1

148. Spacer - Rubber - 2

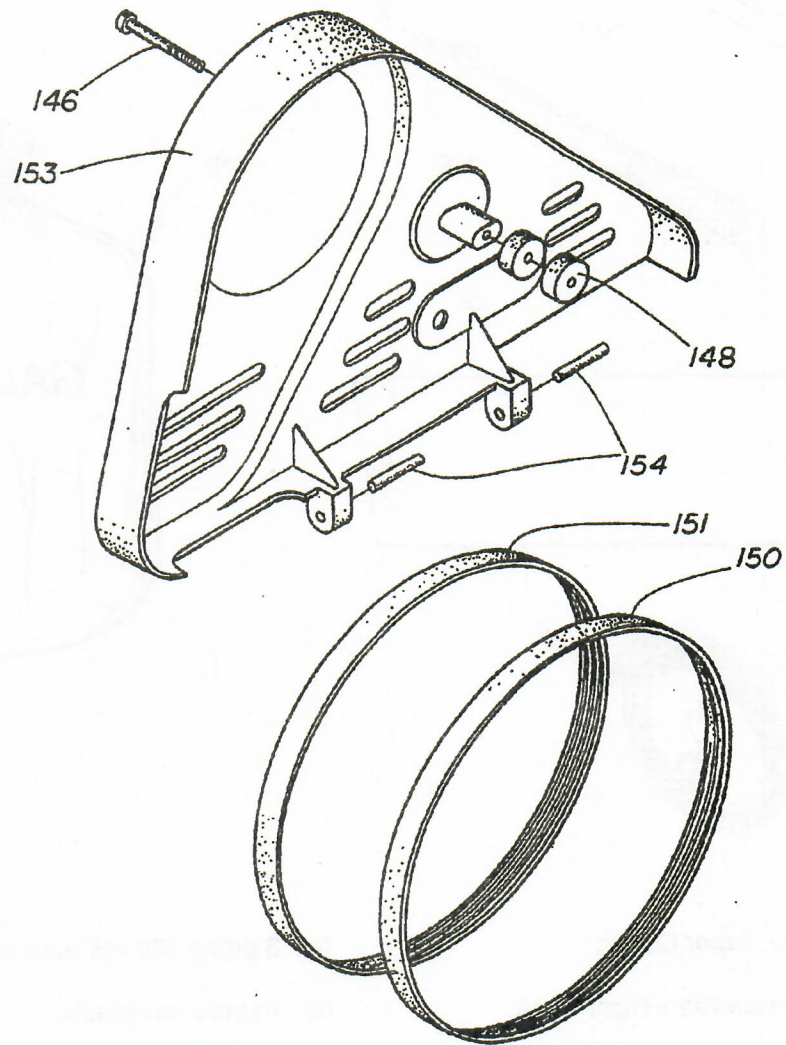
150. Belt - Fan - 1

151. Belt - Drum - 1

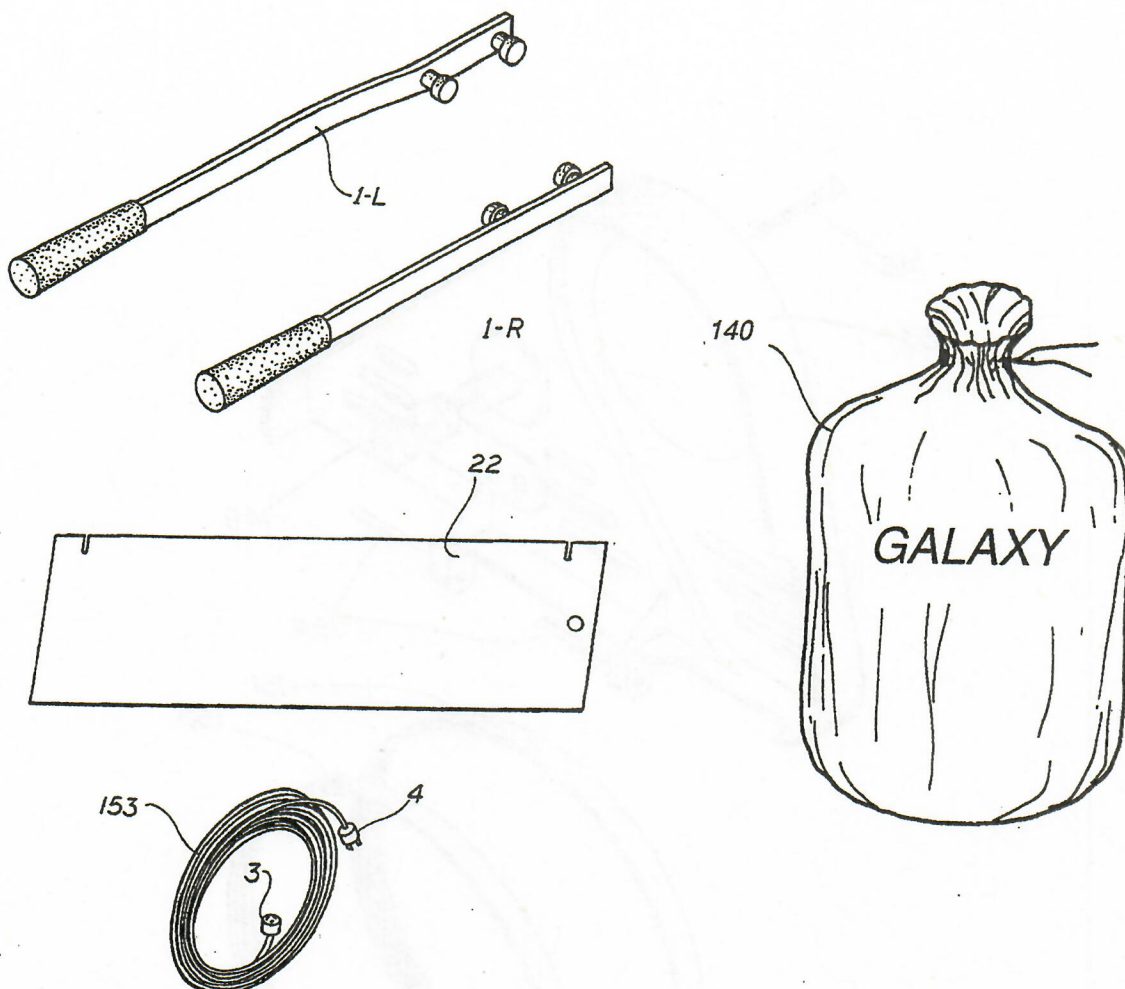
154. Pin - 3/16x1 1/2 - 2

156. Guard - Belt - 1

DRIVE BELTS AND COVER SECTION L



CARRYING HANDLES & POWER CORD SECTION M



22. Template - Paper Cutting

Carrying Handles 1 Right 1 Left

153. 83 ' Power Cord

04. 3 prong 220 volt male receptacle

03. Female receptacle.

140. Dust Bag.

Galaxy's Limited Warranty

Galaxy Floor Sanding Machines, a division of Galaxy Electric Motors Rebuilt Ltd. (hereinafter referred to as "Galaxy") hereby warrants, subject to the conditions herein below set forth in paragraphs numbered "1" through "5", that should this product become defective by reason of improper workmanship or material during the specified warranty period, Galaxy will repair or replace all necessary parts without charge for either parts or labor.

The warranty period for the complete machine (except the motor's electrical windings as listed separately below in #3, 4) is as follows:

1. Labor: One year from the date of original purchase at retail.
2. Parts: One year from the date of original purchase at retail.

The warranty period for only the motor's windings is as follows:

3. Labor: Five years from the date of original purchase at retail.
4. Parts: Five years from the date of original purchase at retail (rewind or exchange).

Conditions

1. Registration: The attached Warranty Registration Card must be mailed to Galaxy within fourteen (14) days after the date of original purchase at retail. At the same time, information as requested on the customer portion of the warranty card must be entered completely for future reference. Included in the mailing envelope with the Warranty Registration Card must be also a photocopy of the original sales bill issued by distributor at time of purchase.

2. Unauthorized Repair, Abuse, Etc.: The unit must not have been previously altered, modified, repaired, or serviced by anyone other than the service facilities authorized by Galaxy to render such services. The serial number on the unit must not have been altered or removed. The unit must not have been subject to accident, misuse, abuse or operated contrary to the instructions contained in the Operator's Manual, or used as a rental unit at any time prior to or after original purchase at retail. The opinion of Galaxy with respect to this matter shall be final.

3. Proper Delivery: The unit must be shipped, freight prepaid, or delivered to the distributor where the unit was originally purchased. All accessories that are included with the unit must be listed individually on the packing slip or distributor's service voucher for documentation. Neither Galaxy nor its distributors shall have liability whatsoever for loss or damage to such accessories if they are not listed. Units requiring repair beyond the capability of the repair center of the distributor's where the original purchase was made will be shipped back to Galaxy at Galaxy's cost, both directions. Approval from Galaxy must be granted on an each-case basis for such service by the factory before shipping (call before you ship).

4. Subject Products: This warranty may be enclosed with and be applicable to the following Galaxy product(s): Floor Sanding Machines.

5. Limitations: This warranty does not extend to broken or damaged belt or drum covers, hinges, or latches, broken or damaged handles, control levers, wheels or drums, bent axles or shafts, ripped or damaged dust bags, or other parts due to operator-caused damage (including in-transport damage when in possession of purchaser or his employees), and to parts wearing out due to normal wear and tear, such as belts, bearings and switches. There is a 120 day warranty on belts and switches. This warranty does not cover regular product maintenance such as cleaning, lubrication or check-ups. This warranty is valid only to the original Purchaser.

Except to the extent prohibited by applicable law, no other warranties, whether express or implied, including warranties of merchantability and fitness for a particular purpose, shall apply to this unit: under no circumstances shall Galaxy be liable for consequential damages sustained in connection with said unit and Galaxy neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than such as is expressly set forth herein.