

OPERATOR'S MANUAL & PARTS LIST

Powr² Orbital Floor Machine

ORB1420





Save These Instructions

**WARNING: OPERATOR MUST READ AND UNDERSTAND THIS MANUAL
COMPLETELY BEFORE OPERATING THIS EQUIPMENT.**

INTRODUCTION

Check the carton for shipping damage. Carefully unpack and inspect your new Powr-Flite dryer for shipping damage. Each unit is tested and thoroughly inspected prior to shipping. If damage is discovered, immediately notify the transportation company that delivered your machine and request an inspection. As a manufacturer, we are unable to act upon any claim for concealed damage; you must originate the claim. Be sure to keep the carton, packing inserts, packing lists, and carrier's receipt until the inspector has verified your claim.

	PROTECT THE ENVIRONMENT
	

Please dispose of packaging materials in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle

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MANUAL

This manual has important information for the use and safe operation of the dryer. Read this manual carefully before starting the machine. Keep the manual available at all times and instruct all operators to read this manual.

REFERENCE INFORMATION

Reference Information

Model Number _____

Serial Number _____

Date Purchased _____

Retain this manual as a permanent record of your purchase.

IMPORTANT SAFETY INSTRUCTIONS

WHEN USING A FLOOR MACHINE, BASIC PRECAUTIONS SHOULD BE FOLLOWED, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS BEFORE USING THE FLOOR MACHINE.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

WARNING

To reduce risk of fire, electric shock or injury:

- “WARNING OF POTENTIAL INJURY”. The floor machine contains moving parts, be sure to unplug machine servicing to reduce the risk of injury.
- Do not put any objects into openings.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Never turn the appliance on with the handle in the upright position. Make sure the handle is in operating position.
- Do not leave machine unattended when plugged in. Unplug the electrical cord when not in use or before servicing.
- Use only as described in this manual. Use only manufacturer’s recommended attachments.
- Do not use with damaged cord or plug. If floor machine is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center before using.
- Do not pull or carry by cord, use cord as handle, close a door on cord, or pull a cord around sharp edges or corners. Do not run floor machine over cord. Keep cord away from heated surfaces.
- Do not use extension cords or outlets with inadequate current carrying capacity.
- Verify if local voltage is 120 V~.

**THESE MODELS ARE GROUNDED, CONNECT TO A PROPERLY GROUNDED OUTLET ONLY
SEE GROUNDING INSTRUCTIONS.**

GROUNDING INSTRUCTIONS

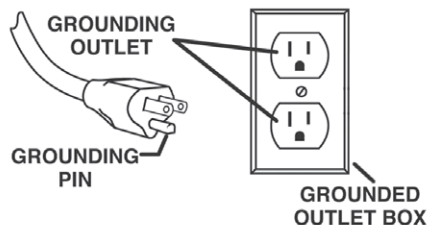
General - this floor-finishing machine shall be grounded while in use to protect the operator from electric shock. The machine is provided with a three-conductor cord and a three-contact grounding type attachment plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect this wire to other than the grounding pin of the attachment plug.

WARNING - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance, if plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

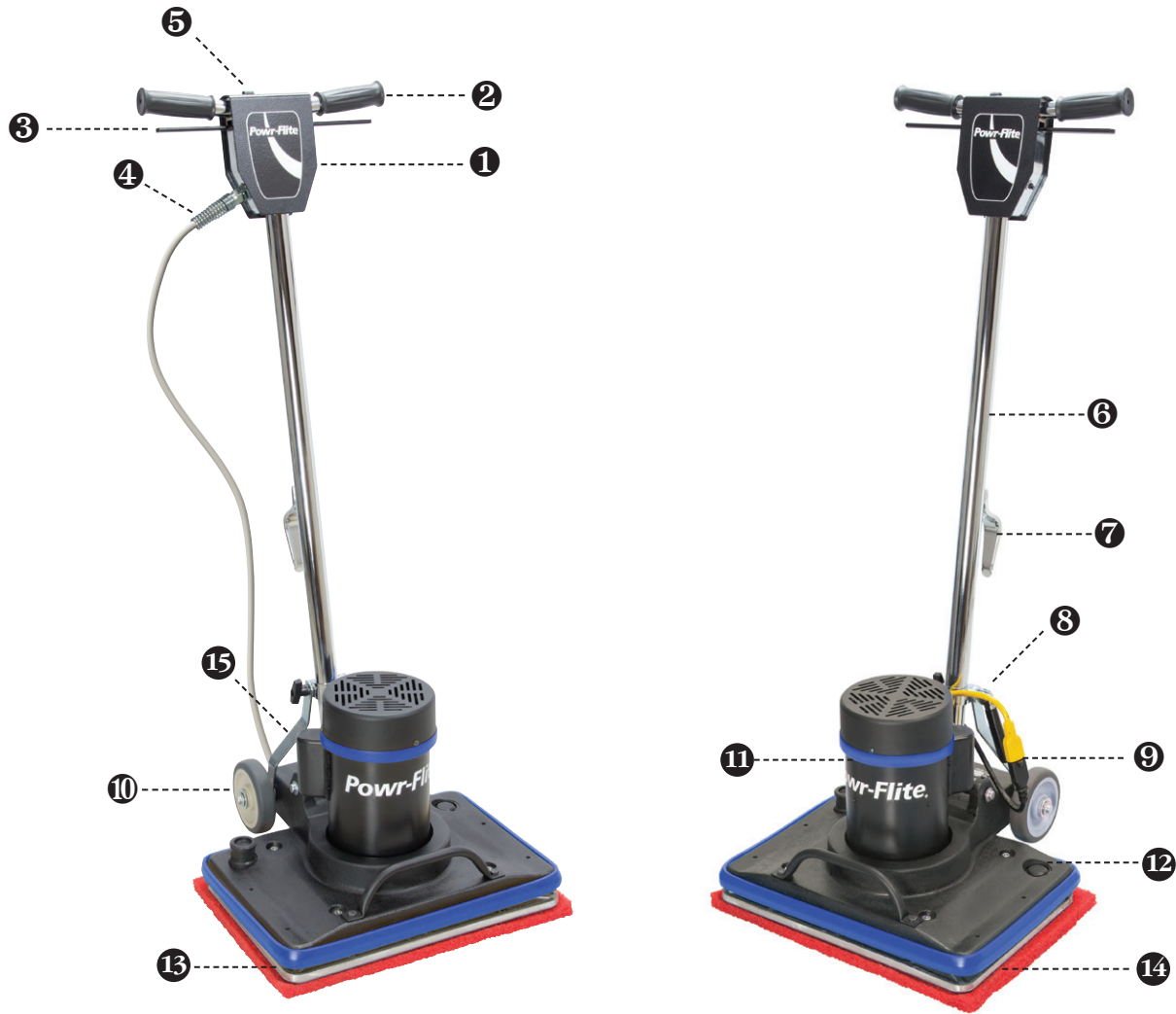
This machine is for use on a nominal 120 V~ circuit and has a grounding plug that resembles the plug illustrated in sketch A. Make sure that the machine is connected to an outlet having the same configuration as the plug. No adapter should be used with this machine.

Note: In Canada, the use of a temporary adaptor is not permitted by the Canadian Electrical Code.

Warning: The power cord on this product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.



GENERAL DIAGRAM / DIAGRAMA GENERAL



PART LIST		LISTA DE PARTES
1	SWITCH BOX	CAJA SWITCH
2	HANDLE GRIP	MANGO MANERAL
3	STARTING LEVER	PALPANCA DE ENCENDIDO
4	LINE CORD	CABLE ALIMENTACIÓN
5	THUMB SWITCH	SEGURO PARA PALANCA DE ENCENDIDO
6	HANDLE TUBE	TUBO MANIJA
7	CORD HOOK	SOPORTE CABLE
8	ADJUSTING LEVER	PERILLA DE AJUSTE
9	MOTOR CORD	CABLE MOTOR
10	WHEELS	RUEDAS
11	MOTOR	MOTOR
12	CHASSIS	CHASIS
13	PAD DRIVER	PORTA COJINETE
14	PAD	COJINETE
15	ARM BRACKETS	SOPORTES DE BRAZO

HOW TO ASSEMBLE THE PAD

Always unplug the machine before installing any accessory.

1. Unplug machine, secure handle tube in vertical position and lay down the machine turning it over its wheels until the underneath side of the machine is vertical and fully exposed.
2. Before laying down machine, place a clean towel on the floor to keep the switch box from scratching.
3. Install or replace pad. The pad should be replaced if it has become matted down to a thickness of 3/8" or less.
4. Remove existing pad then center new pad over grip face. Press pad against grip face until the hooks in the driver have set in the pad.
5. Return the machine to the upright position.
6. Do not operate this machine with out the pad in place.

HOW TO START YOUR FLOOR MACHINE

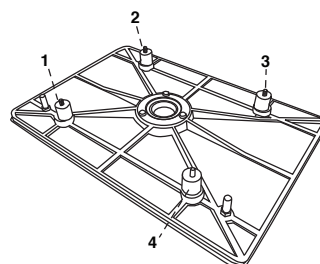
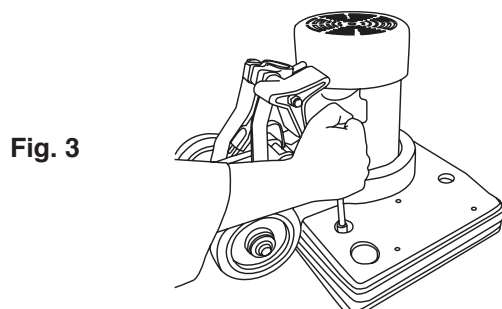
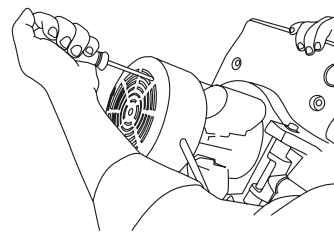
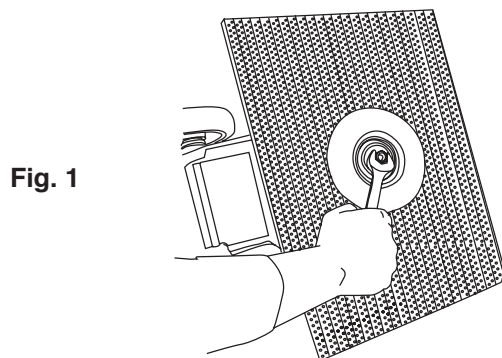
1. Plug the power cord into a proper grounded outlet.
2. Adjust handle tube in a comfortable position by loosening the adjusting lever at the desired height.
3. Press Switch lock and at the same time, press the starting switch on the handle grip. The motor will start. **WARNING:** The chassis should be parallel to the floor when you turn the machine on. It is recommended to familiarize with the machine by working on large spaces until you gain experience with the machine.
4. To turn the machine off simply release the starting switch while keeping hands on handle grip.

HOW TO REPLACE ISOLATORS

The unit works with 4 isolators that reduce the vibration of the floor machine during operation. If the unit vibrates or makes more noise than usual, then the replacement of the isolators may be necessary.

To replace them follow these instructions:

1. **Always unplug the machine before replacing any part.**
2. Follow instructions 1 & 2 on how to assemble the pad.
3. Remove the central part of the grip face pulling it off the pad driver.
4. Remove the central screw on the bottom of the pad driver with a 3/4 wrench (Fig.1).
Note: To unscrew the central screw, you can use a screw driver to block the fan on top of the motor (Fig. 2) this will hold the screw from spinning.
5. Remove the screws that hold the pad driver with the chassis, 4 screws (Fig. 3)
6. Unscrew the isolators and replace with new ones, 4 isolators (Fig. 4)
7. Follow the same instructions in reverse to reassemble the unit.



ADVERTENCIAS

**AL UTILIZAR SU PULIDORA, SE DEBEN SEGUIR LAS SIGUIENTES PRECAUCIONES:
LEA TODAS LAS INSTRUCCIONES ANTES DE UTILIZAR SU MÁQUINA.**

GUARDE ESTE MANUAL PARA FUTURAS REFERENCIAS

PRECAUCIONES

Para reducir el riesgo de fuego, choque eléctrico o daño físico:

- **PRECAUCIÓN DE POSIBLES DAÑOS:** La pulidora contiene piezas movibles, desconéctela antes de darle servicio para reducir el riesgo de daños.
- No ponga objetos en ninguna de las aberturas, ni se utilice con alguna abertura bloqueada.
- Mantenga el cabello, ropa suelta, dedos y cualquier parte del cuerpo lejos de aberturas y partes con movimiento.
- Nunca opere el aparato con la manija en posición vertical. Asegúrese que la manija esté en posición de operación.
- Verifique si el voltaje local es de 120 V~.
- No deje su pulidora sola cuando esté conectada. Apáguela y desconéctela cuando no esté en uso y antes de darle servicio.
- Use solo como se describe en este manual. Utilice únicamente accesorios recomendados por el fabricante.
- Si el cordón de alimentación es dañado, debe ser reemplazado por el fabricante o su agente de servicio o personal calificado para evitar el riesgo.
- No cargue o jale la pulidora del cordón, ni lo use como manija, no jale el cordón sobre orillas o esquinas filosas y manténgalo alejado de las superficies calientes.
- No utilice extensiones o enchufes sin la capacidad de corriente adecuada.

ESTE MODELO ES ATERRIZADO - CONECTE SOLO A UN CONTACTO ATERRIZADO - VEA LAS INSTRUCCIONES DE ATERRIZADO.

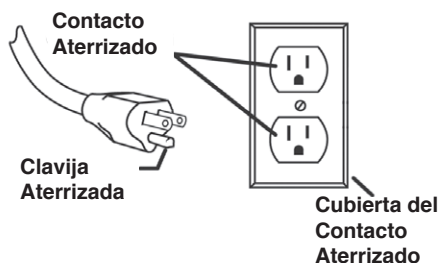
INSTRUCCIONES DE ATERRIZAJE.

General - Este aparato deberá ser aterrizado mientras esté en uso para proteger al operador de un choque eléctrico. Esta máquina cuenta con un cable de alimentación de 3 conductores y una clavija aterrizada para conectar a una toma de corriente en la posición correcta de los contactos.

El conductor verde (o amarillo verde) es el cable de tierra. Nunca conecte este cable a otra conexión que no sea la de tierra en la clavija.

ADVERTENCIA - Una conexión inapropiada puede provocar riesgo de choque eléctrico, revise por medio de un electricista capacitado que el contacto que utilizará esté debidamente aterrizado. No modifique la clavija de la máquina, si la clavija no ajusta en el contacto, instale uno llamando a un electricista capacitado.

Esta máquina es para utilizarse con un voltaje nominal de 120 V~ y tiene clavija aterrizada, como se ilustra en la fig. A. Asegúrese de que la máquina sea conectada en un contacto con la misma configuración de la clavija. No utilizar un adaptador con esta máquina.



COMO INSTALAR EL COJINETE

Siempre desconecte la máquina del tomacorriente antes de colocar los cepillos.

1. Desconecte el cable de alimentación, fije el tubo manija en posición vertical y voltee la máquina girándola sobre sus ruedas, hasta que quede horizontal y con el fondo accesible.
2. Antes de voltear el aparato, coloque un paño o material suave y limpio para recargar la caja manija.
3. Instalar o cambiar el pad. El cojinete debe cambiarse si el grueso del mismo es menor a 3/8" o menos.
4. Retire el cojinete viejo y coloque uno nuevo centrado sobre el frente con agarre presionando hasta que el pad ya no se caiga.
5. Regrese la máquina a la posición vertical.
6. No opere la máquina sin un cojinete en posición.
7. Siempre deje un cojinete en la máquina para proteger el frente con agarre de cualquier daño.

COMO ENCENDER SU PULIDORA

1. Conecte el cable de alimentación en una toma de corriente aterrizada.
2. Ajustar el tubo manija a una posición cómoda aflojando la palanca de ajuste a la altura deseada.
3. Oprima el seguro de encendido y al mismo tiempo, oprima la palanca de encendido y entonces encenderá el motor.
PRECAUCIÓN: El chasis debe estar paralelo al piso en el momento de arrancar; si éste se encuentra inclinado, la máquina se desplazará hacia a un lado. Se recomienda que los primeros intentos se realicen en un área grande en lo que adquiere la experiencia requerida.
4. Si desea apagar la máquina simplemente deje de oprimir la palanca de encendido sin soltar el maneral.

COMO CAMBIAR LOS AMORTIGUADORES

La unidad SP-15 funciona con 4 amortiguadores que reducen la vibración de la máquina durante la operación.

Si la unidad vibra o hace más ruido de lo normal, entonces es necesario sustituir amortiguadores.

Para reemplazarlos, siga estas instrucciones:

1. **Desenchufe siempre la máquina antes de cambiar cualquier parte.**
2. Siga las instrucciones 1 y 2 sobre cómo instalar el cojinete.
3. Quite la parte central de la malla retén, jalándola del porta cojinete.
4. Retire el tornillo central en la parte inferior del portacojinete con una llave española de 3/4 (Fig. 1).
Note: Para aflojar el tornillo central, se puede utilizar un destornillador para bloquear el ventilador en la parte superior del motor (Fig. 2) esto impedirá que el tornillo gire.
5. Retire los tornillos que sujetan con el chasis, 4 tornillos (Fig. 3)
6. Destornille los amortiguadores y sustitúyalos con nuevos, 4 amortiguadores (Fig. 4)
7. Siga las mismas instrucciones en sentido inverso para volver a montar la unidad.

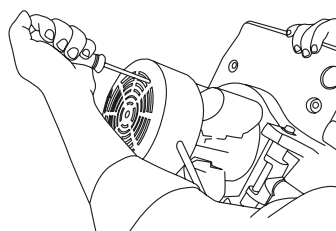
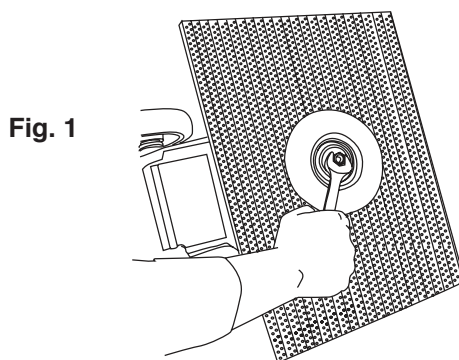


Fig. 2

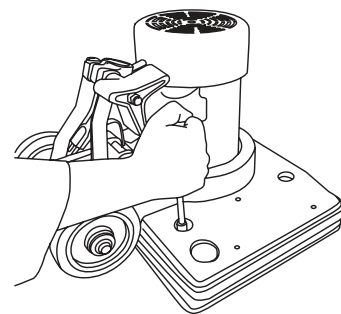


Fig. 3

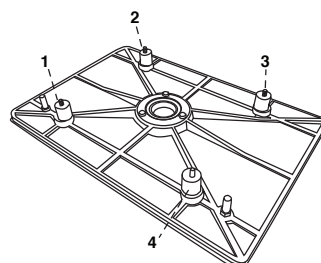


Fig. 4

TROUBLE SHOOTING CHART

1. MOTOR DOESN'T START

POSSIBLE CAUSE	SOLUTION
CONNECTED	CHECK CONNECTION
LINE CORD DAMAGE	REPLACE
LINE CORD UNPROPERLY CONNECTED	CHECK CONNECTION
LINE CORD DAMAGE	CHECK LINE CORD
MICROSWITCH DAMAGED	REPLACE MICROSWITCH
MOTOR LINE CORD DAMAGED	REPLACE MOTOR LINE CORD
MOTOR ASSEMBLY DAMAGED	REPLACE MOTOR ASSEMBLY
SAFETY KNOB NOT POSITIONED	POSITION SAFETY RELEASE

2. MOTOR WORKS BADLY

POSSIBLE CAUSE	SOLUTION
LOW VOLTAGE	CHECK VOLTAGE (LINE)
CAPACITOR DAMAGED	REPLACE CAPACITOR
UNPROPER MOTOR CONNECTIONS	CHECK CONNECTIONS

OPTIONAL ACCESSORIES

ACCESSORIES	PART No.
4 GALLON TANK	FM90P
22 LB WEIGHT	X1090
SHOCK ABSORBERS KIT	X1115

FALLAS Y CORRECCIONES

1. EL MOTOR NO TRABAJA

CAUSAS	CORRECCIONES
CABLE DE LÍNEA MAL CONECTADO	VERIFIQUE LA CONEXIÓN
CABLE DE LÍNEA ABIERTO	REEMPLAZAR CABLE
MICROSWITCH DAÑADO	REEMPLAZAR MICROSWITCH
CABLE DEL MOTOR ABIERTO	REEMPLAZAR CABLE
ENSAMBLE DEL MOTOR DAÑADO	REEMPLAZAR ENSAMBLE MOTOR
PERILLA SEGURO SIN DESLIZAR	CORREGIR POSICIÓN

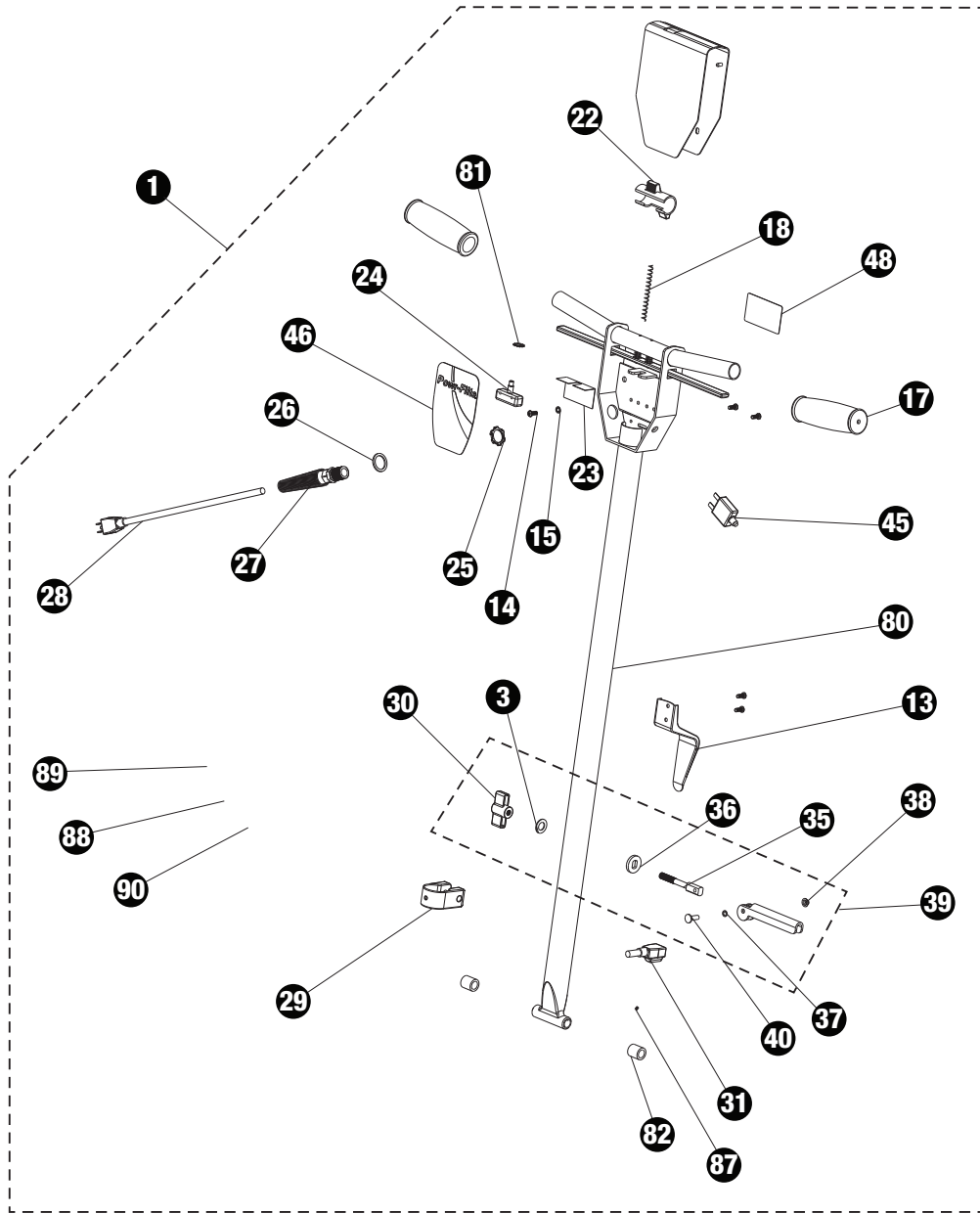
2. EL MOTOR TRABAJA CON DIFICULTAD

CAUSAS	CORRECCIONES
VOLTAJE DE LÍNEA BAJO	VERIFICAR EL VOLTAJE DE ENTRADA
CAPACITOR DEL MOTOR DAÑADO	REEMPLACE EL CAPACITOR POR OTRO DE LA MISMA CAPACIDAD Y VOLTAJE
CONEXION DEL MOTOR EQUIVOCADA	VERIFICAR CONEXIÓN SI ES DE 127 V~ o DE 220V~

ACCESORIOS OPCIONALES

ACCESORIO	NÚMERO DE PARTE
TANQUE DE 4 GALONES	FM90P
PESA DE 22 lb	X1090
KIT AMORTIGUADORES	X1115

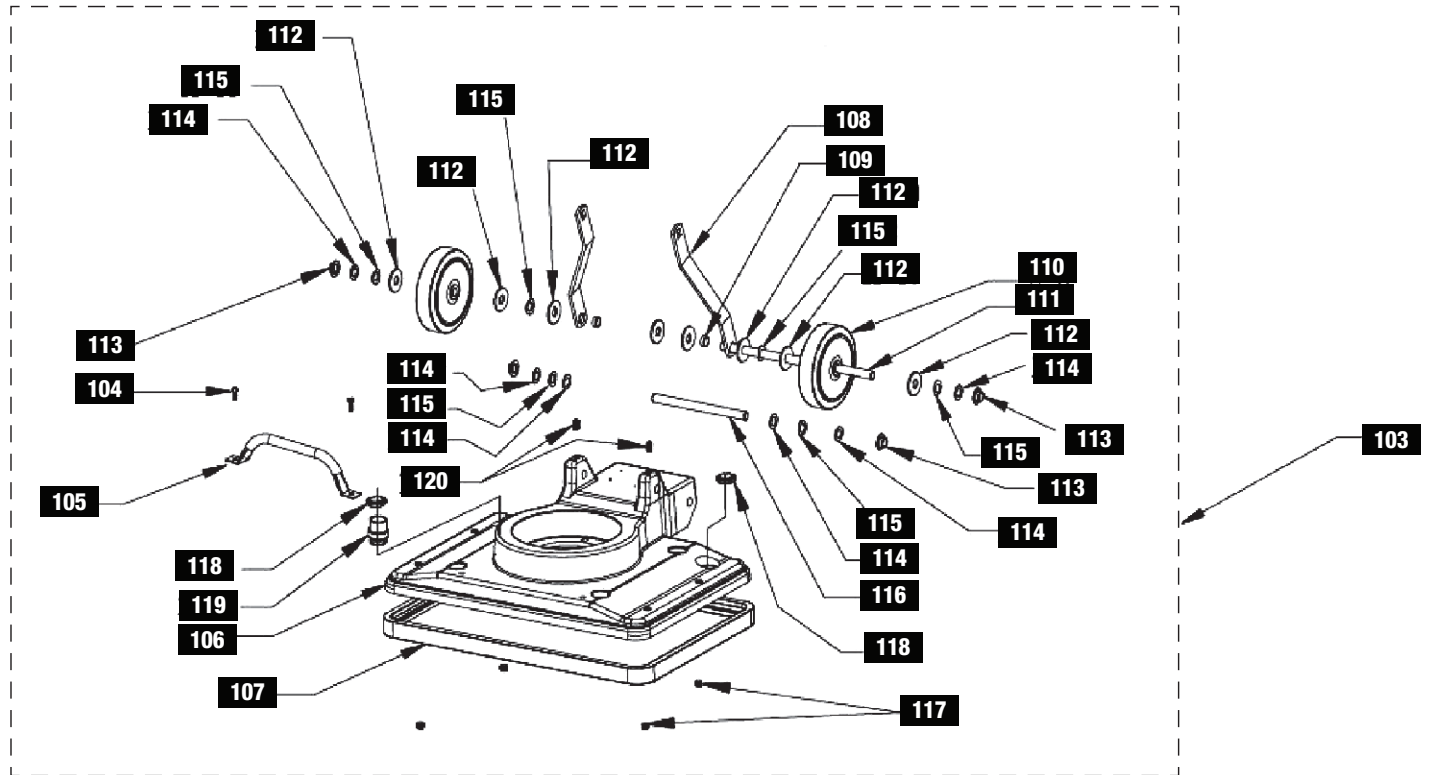
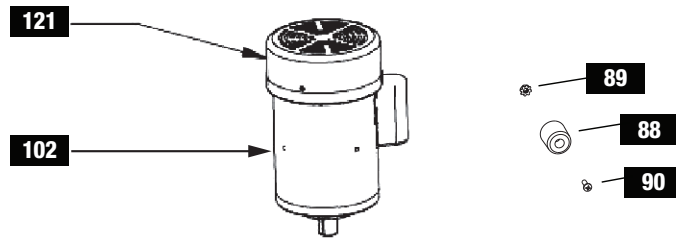
SCHEMATIC AND PARTS LIST - HANDLE



ITEM	PF PRODUCT NUMBER	DESCRIPTION
1	X8911-K	HANDLE ASSEMBLY, ORB1420
3	X8218	WASHER 5/16 SAE FLAT ZINC
13	X8013	CORD HOOK, PLATED
14	X8207	SCREW 10-24 X 1/2 PHIL PAN S/T
15	7CY001	WASHER #10 INT TOOTH LOCK SS
17	X8941	HANDLE GRIP 1" DIAMETER
18	X8915	SPRING THUMB ACTUATOR
22	X8914	THUMB SWITCH ACTUATOR
23	X1040	INSULATION SHEET 2.5X2X.020
24	X1039	SWITCH 21A 1.5HP MOMENTARY
25	X8008N	NUT LOCK 1/2" STEEL CONDUIT
26	SR36	STRAIN RELIEF WASHER
27	SR42	STRAIN RELIEF - LARGE SIZE
28	M1369G	CORD 14/3 STW 50' GRAY
29	X8012	HANDLE CLAMP COLLAR

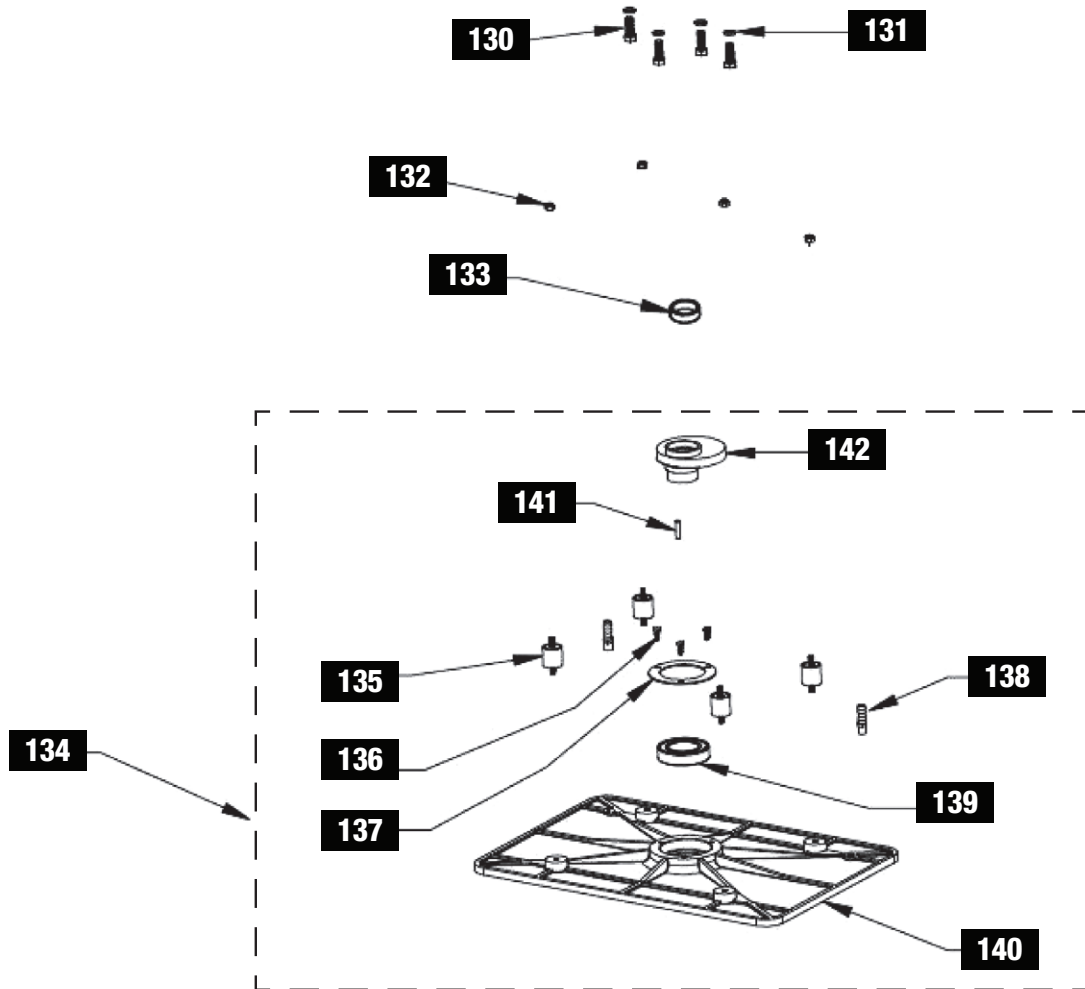
ITEM	PF PRODUCT NUMBER	DESCRIPTION
30	X8016	KNOB, PLASTIC, HANDLE CLAMP
31	X8989	CORD 14/3 SJTW 50" BLACK
35	X8015	STUD, ADJUSTABLE, CAM/HANDLE
36	X8028	WASHER, CAM W/ SLOT
37	X8101A	WAVE SPRING WASHER 6MM
38	X8032	NUT, 1/4, PUSH STEEL PLATED
39	X8012A	HANDLE CLAMP ASSEMBLY
40	X8031	DOWL PIN, W /HEAD 1/4" X 3/4"
45	X8023A	CIRCUIT BREAKER 17A W/NUTS
46	X8815A	LABEL M HANDLE FOIL PF LOGO
48	X1044	LABEL, WARNING FLOOR MACH
80	X8911	HANDLE ALL METAL FM & BURNISHR
81	X1084	3/8" EXT TOOTH LOCK WASHER
82	X1080	SPACER HANDLE, KOBLENZ
87	X8222	SET SCREW

SCHEMATIC AND PARTS LIST - MOTOR AND CHASSIS

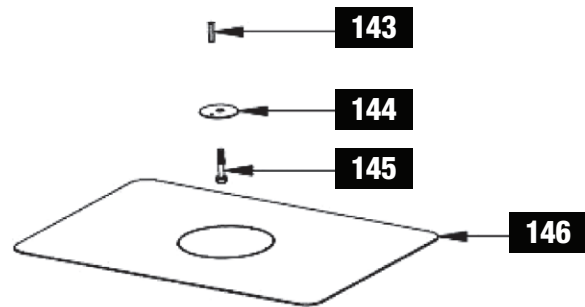


ITEM	PF PRODUCT NUMBER	DESCRIPTION
88	PD3B	FOOT, BLACK, RUBBER
89	X8256	NUT 8-32 KEPS ZINC
90	PX73	SCREW, #8-32 X 1/2"
102	X1091	MOTOR ASSEMBLY
103	X1092	CHASSIS ASSEMBLY
104	X1093	BOLT 5/16X1
105	X1094	CHASSIS HANDLE
106	X1095	CHASSIS
107	X1096	BUMPER
108	X1097	BRACE
109	X1098	BUSHING BRACE
110	X1099	WHEEL
111	X1100	WHEEL SHAFT
112	X1101	FLAT WASHER 1/2
113	X1102	CAP NUT 1/4
114	X1103	STAINLESS STEEL FLAT WASHER
115	X1104	SPRING WASHER
116	X1105	YOKE SHAFT
117	X1106	ALLEN SET 5/16 X 5/6
118	X1107	CHASSIS CAP
119	X1108	DUST CONTROL COUPLING
120	X1109	ALLEN SET 1/4 X 1/2
121	X1128	MOTOR COVER

SCHEMATIC AND PARTS LIST - PAD



ITEM	PF PRODUCT NUMBER	DESCRIPTION
130	X1110	BOLT 3/8 X 1
131	X1111	PRESSURE WASHER 3/8
132	X1112	NYLON NUT
133	X1113	MOTOR SPACER
134	X1114	PAD DRIVER ASSEMBLY
135	X1115	SHOCK ABSORBER KIT (4)
136	X1116	BOLT 1/4-20X1/2
137	X1117	BEARING RETAINER
138	X1118	BARBED HOSE 1/8 NPT
139	X1119	BEARING 6008 LU
140	X1120	PAD DRIVER
141	X1121	SPIROL PIN
142	X1122	ORBITAL WEIGHT
143	X1123	WEDGE 3/16 X 1
144	X1124	PAD DRIVER WASHER
145	X1125	BOLT 5/16 X 1-1/2
146	X1126	FACING GRIP
		USER MANUAL
OPTIONAL ACCESSORIES		
N/A	FM90P	4 GALLON TANK
N/A	X1090	22 LB WEIGHT
N/A	X1129	DUST CONTROL KIT



POWR-FLITE LIMITED WARRANTY

Powr-Flite will repair or exchange parts for your dryer in the event of a manufacturing defect as follows:

PARTS: New or comparable rebuilt parts, for one year after original purchase. Five year warranty on housing.

LABOR: Carry-in service can be obtained during the warranty period by taking your dryer to an Authorized Powr-Flite Warranty Service Center.

IMPORTANT WARRANTY CONDITIONS: A purchase receipt or other proof of date of original consumer purchase also will be required before warranty service is rendered.

This warranty covers normal use and does not cover damage which occurs in shipment or failure resulting from alteration, accident, misuse, abuse, neglect, or improper maintenance.

STATEMENT: This warranty is not transferable and extends only to the original purchaser when a new Powr-Flite dryer is purchased from an Authorized Powr-Flite Dealer. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

Powr-Flite[®]

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