

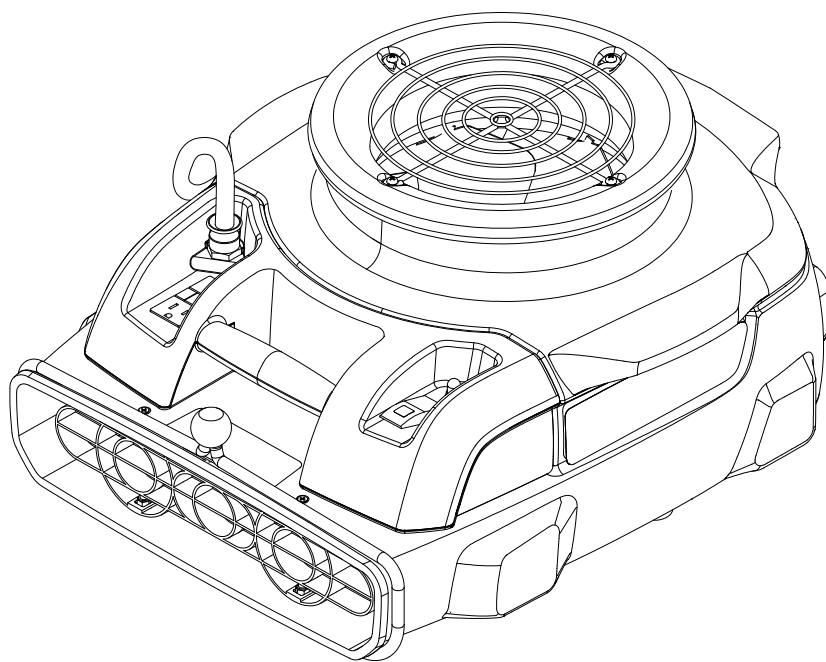
PROCHEM[®] **DRR**

TRIAD

THRUSTER FAN UNIT

Operating Instructions (ENG)

MODEL: 115 V
1.004-035.0



Read instructions before operating the machine.

Model:	_____
Date of Purchase:	_____
Serial Number:	_____
Dealer:	_____
Address:	_____
Phone Number:	_____
Sales Representative:	_____

The Triad Thruster Fan is intended for professional disaster restoration and remediation, but can also be used for carpet cleaning, construction, and janitorial / sanitation professionals in general ventilating and structural drying applications.

Warranty Registration

Thank you for purchasing a Prochem product. Warranty registration is quick and easy.
Your registration will allow us to serve you better over the lifetime of the product.

To register your product go to :
www.prochem.com/WarrantyRegistration.aspx

For customer assistance:
1-800-776-2436

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How To Use This Manual

This manual contains the following sections:

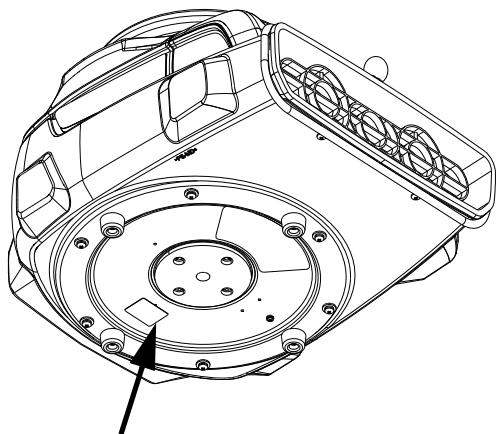
- How to Use This Manual
- Safety
- Operations
- Maintenance
- Parts List

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. 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.

Model:	_____
Date of Purchase:	_____
Serial Number:	_____
Dealer:	_____
Address:	_____
Phone Number:	_____
Sales Representative:	_____

The model and serial number of your machine is located on the bottom of the machine.



The SAFETY section contains important information regarding hazardous or unsafe practices of the machine. Levels of hazards are identified that could result in product damage, personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Storage
- Maintenance
- Troubleshooting

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- **REF** – column refers to the reference number on the parts illustration.
- **PART NO.** – column lists the part number for the part.
- **PRV NO.** – reference number.
- **QTY** – column lists the quantity of the part used in that area of the machine.
- **DESCRIPTION** – column is a brief description of the part.
- **SERIAL NO. FROM** – If this column has an (*) and a Reference number, see the SERIAL NUMBERS page in the back of your manual. If column has two asterisk (**), call manufacturer for serial number. The serial number indicates the first machine the part number is applicable to. The main illustration shows the most current design of the machine. When a boxed illustration is shown, it displays the older design.
- **NOTES** – column for information not noted by the other columns.

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

The manual part number is located on the lower left corner of the front cover.

IMPORTANT SAFETY INSTRUCTIONS

**When using this machine, basic precaution
must always be followed, including the following:**

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

⚠ WARNING: To reduce the risk of fire, electric shock, or injury:

Use only indoors. Do not use outdoors or expose to rain or water.

Use only as described in this manual. Use only manufacturer's recommended components and attachments.

Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

Do not operate this machine near flammable fluids, dust or vapors.

Maintenance and repairs must be done by qualified personnel.

The machine shall only be operated by instructed and authorized persons.

Do not handle the plug or machine with wet hands.

Do not unplug machine by pulling on cord. To unplug, grasp the plug, not the cord.

Do not use with damaged cord or plug.

Do not pull or carry by cord, use cord as a handle, run over cord, close a door on cord, or pull cord around sharp edges or corners.

Connect to a properly grounded outlet.

Connect only to an outlet provided with a ground fault circuit interrupting device (GFCI).

Do not use this fan with any solid-state speed control device.

Never service or clean the unit while plugged in.

Do not operate without safety guards properly installed and secured.

READ AND SAVE THESE INSTRUCTIONS

CONSIGNES IMPORTANTES DE SÉCURITÉ

Lors de l'utilisation d'un appareil électrique, il faut toujours observer des précautions élémentaires, qui comprennent parmi celles-ci:

LISEZ BIEN L'ENSEMBLE DES CONSIGNES AVANT D'UTILISER CET APPAREIL.

⚠ AVERTISSEMENT: Pour réduire les risques d'incendie, d'électrocution ou de blessure:

Utilisez-le exclusivement dans des endroits fermés. Ne l'utilisez pas en plein air et ne le laissez pas sous la pluie.

Utilisez-le exclusivement de la manière décrite dans ce manuel. Utilisez exclusivement les composants et les fixations recommandés par le fabricant.

Ne faites pas fonctionner l'appareil si des ouvertures sont bouchées. Dégagez des ouvertures tous débris susceptibles d'entraver le passage de l'air.

Ne faites pas fonctionner cet appareil à proximité de fluides, de poussières ou de vapeurs inflammables.

Les travaux de maintenance et de réparation doivent absolument être effectués par du personnel qualifié.

L'utilisation de l'appareil est exclusivement réservée à des personnes formées et autorisées.

Ne manipulez pas la fiche ou l'appareil les mains mouillées.

Ne débranchez pas l'appareil en tirant sur le cordon. Pour le débrancher, empoignez la fiche, non pas le cordon.

N'utilisez pas l'appareil si le cordon ou la fiche est endommagé(e). Observez toutes les consignes figurant dans ce manuel au sujet de la mise à la terre de l'appareil.

Ne tirez pas sur le cordon, ne portez pas l'appareil par le cordon, n'utilisez pas le cordon comme poignée, ne fermez pas une porte sur le cordon, ne tirez pas sur le cordon dans des angles ou des coins pointus.

Raccordez l'appareil à une prise adéquatement reliée à la terre. Voir les Consignes de mise à la terre.

Utilisez-le uniquement sur des réceptacles protégés GFCI.

N'utilisez pas ce ventilateur avec quelconque dispositif de contrôle de la vitesse à l'état solide.

Ne jamais entretenir ou nettoyer l'unité pendant qu'a branché sur.

Ne pas fonctionner sans les gardes de sécurité convenablement installé et obtenu.

CONSERVEZ CES CONSIGNES

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

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and **FOR SAFETY**. The level of hazard intensity is determined by the following definitions:

WARNING:

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

CAUTION:

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

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

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

FOR SAFETY:

DO NOT OPERATE MACHINE:

Unless Trained and Authorized.

Unless Operation Guide is Read and understood.

In Flammable or Explosive areas.

In areas with possible falling objects.

WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine.

Use only manufacturer approved replacement parts

Les symboles ci-dessous sont utilisés à travers ce manuel comme illustré dans leurs descriptions:

DEGRÉS DE RISQUES EN CAS DE DANGER

Il existe trois degrés de risques identifiés par les termes signalétiques -**AVERTISSEMENT** et **ATTENTION** et **POUR VOTRE SÉCURITÉ**. Le degré de risque est défini de la manière suivante:

AVERTISSEMENT:

AVERTISSEMENT - Dangers ou méthodes dangereuses qui POURRAIENT provoquer de graves blessures ou entraîner la mort.

ATTENTION:

ATTENTION - Dangers ou méthodes dangereuses qui pourraient provoquer des blessures légères ou une détérioration du produit ou des biens immobiliers.

POUR VOTRE SÉCURITÉ: ce signe permet d'identifier les mesures de précaution à prendre pour assurer un bon fonctionnement du matériel.

Rendre compte immédiatement d'une défaillance ou d'une détérioration de la machine. Ne pas utiliser la machine si celle-ci ne fonctionne pas correctement. Lire soigneusement les informations ci-dessous signalant certains dangers potentiels pour l'opérateur de la machine. L'opérateur doit être absolument au courant de ces dangers potentiels. Localiser tous les dispositifs de sécurité sur la machine. Il est conseillé de prendre les mesures nécessaires pour former le personnel opérateur.

POUR VOTRE SÉCURITÉ:

NE PAS MANOEUVRER LA MACHINE:

Lorsqu'on n'est pas expérimenté ou qualifié.

Lorsque le guide d'utilisation n'est pas été lu ou compris.

Dans des zones inflammables ou explosives.

Dans des zones où des objets peuvent tomber.

LORS DE L'ENTRETIEN DE LA MACHINE:

Éviter les parties amovibles. Ne pas porter de vêtements amples, tels que des vestes, des chemises ou des vêtements avec manches lors de l'utilisation de la machine. Utiliser les pièces détachées Windsor homologuées.

115V Grounding Instructions

ELECTRICAL:

In the USA this machine operates on a standard 15 amp 115V, 60 hz, A.C. power circuit. The amp, hertz, and voltage are listed on the data label found on each machine. Using voltages above or below those indicated on the data label will cause serious damage to the motors.

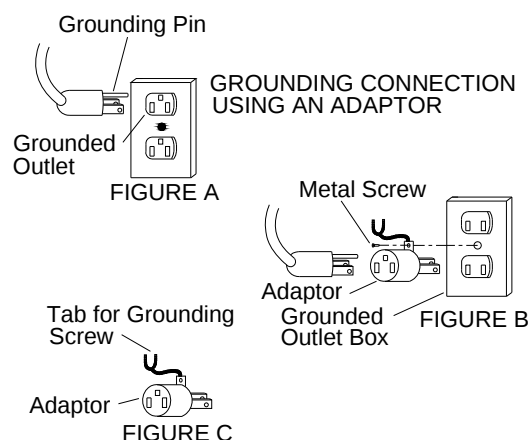
EXTENSION CORDS:

If an extension cord is used, the wire size must be at least one size larger than the power cord on the machine, and must be limited to 50 feet (15.5m) in length.

GROUNDING INSTRUCTIONS:

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A". A temporary adaptor that looks like the adaptor in "Fig. C" may be used to connect this plug to a 2-pole receptacle as shown in "Fig. B", if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.



Note: Adaptors are not allowed in Canada.

⚠ WARNING:

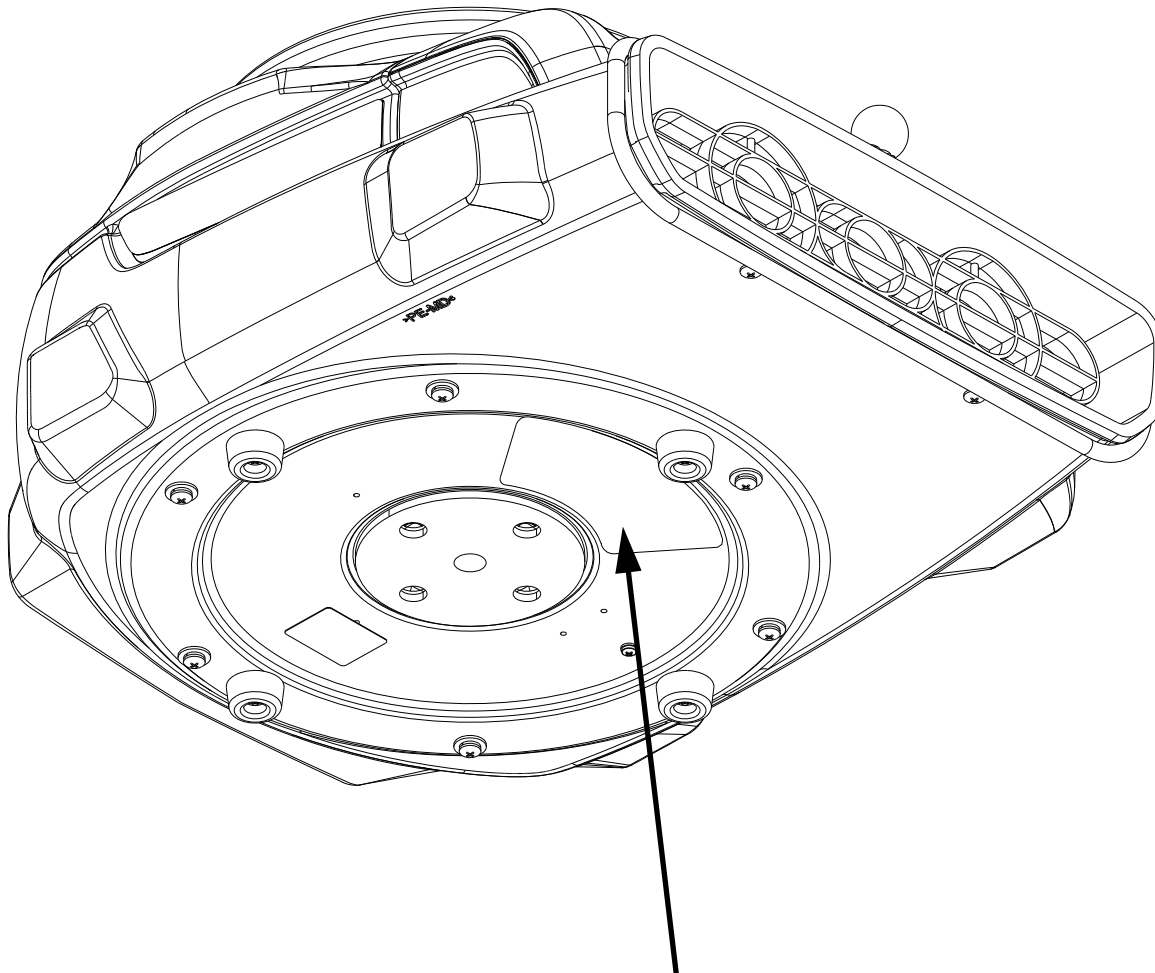
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet,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

⚠ AVERTISSEMENT:

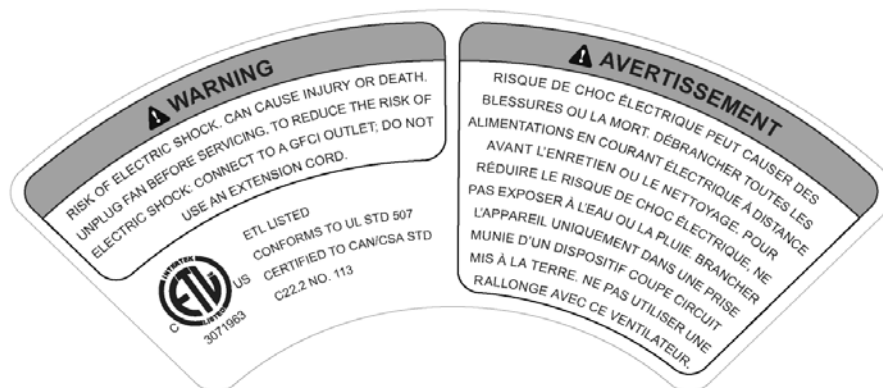
Le raccordement incorrect du conducteur de terre d'équipement peut entraîner des risques d'électrocution. Vérifiez auprès d'un électricien qualifié ou d'un responsable de l'entretien si vous avez quelque doute que ce soit quant au raccordement à la terre de votre prise murale. Ne modifiez pas la fiche fournie avec l'appareil : si elle ne correspond pas à la prise murale, faites installer une prise adéquate par un électricien qualifié. Utilisez-le uniquement sur des réceptacles protégés GFCI.

Safety Label Location

This drawing indicates the safety label location on the machine. If at any time the label becomes illegible, promptly replace it.

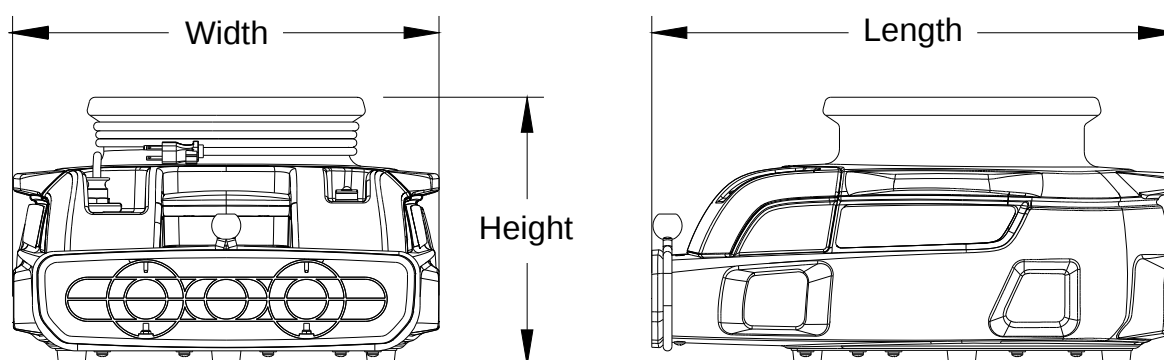


Warning Label
8.633-474.0



Technical Specifications

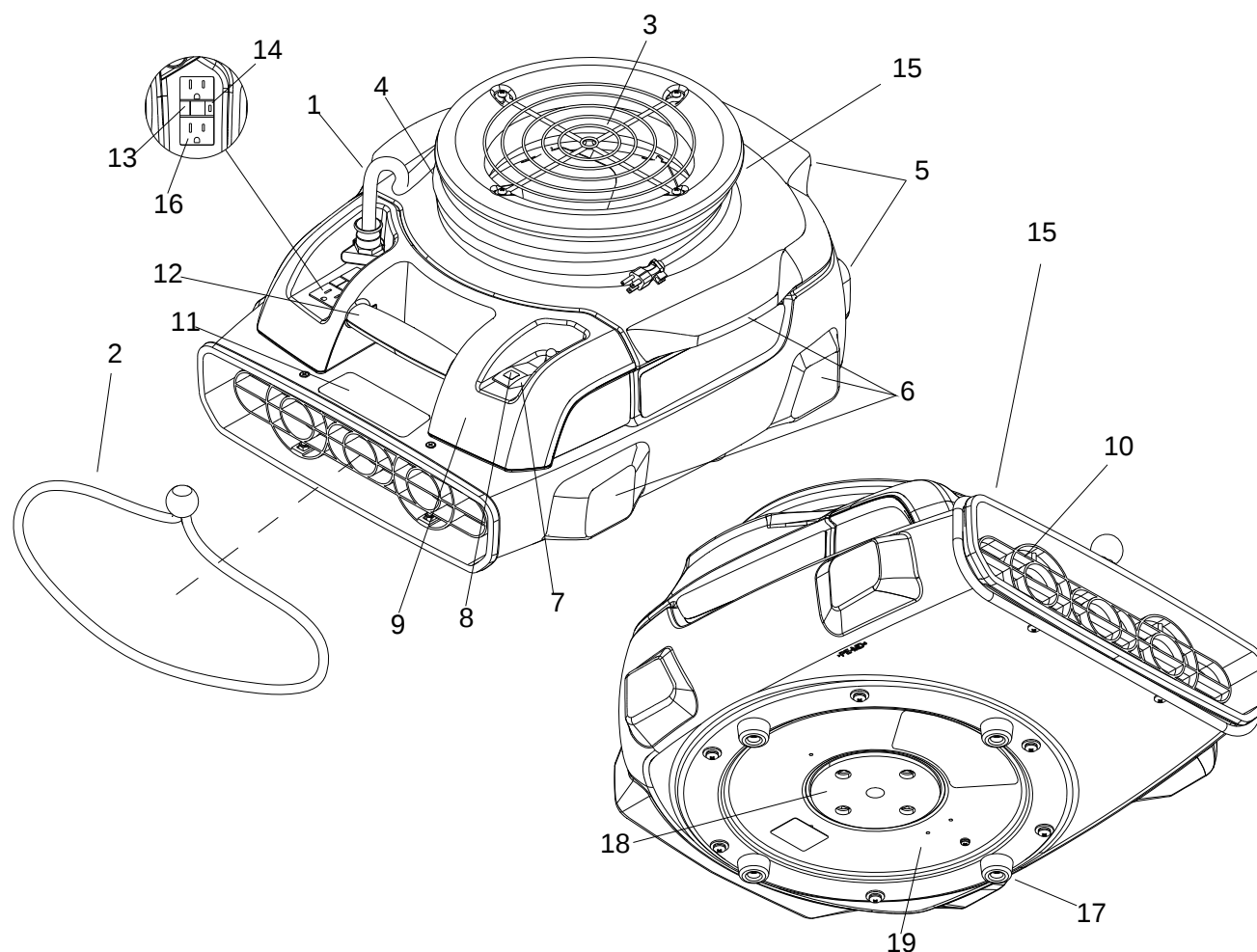
ITEM	MEASURE
Height	12 In
Length	22.5 In
Width	18.5 In
Motor	.25 HP
Cord	25' X 14 Gauge / 3 Wire Safety Yellow
Weight w/Cord	22 Lbs.
Body Construction	Rotationally Molded Polyethylene
Frame Construction	Powder Coated Aluminum
Power Outlet	GFCI Duplex
Electrical	
Fan	1.48 Amps @ 110 / 120 VAC 60 Hz
GFCI Outlet	10.52 Amps (Max w/ fan on) @110 / 120 VAC 60 Z
Total Power	12Amps @ 110 / 120 VAC 60 Hz



SPECIAL NOTES:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

The ambient sound pressure level was measured to be 66.9 dBA. This was a nearfield, broadband measurement taken in a typical industrial environment on a tile floor.



Components

- | | |
|-----------------------------|--|
| 1. Power Cord | 11. Identification Area (For Customer Use) |
| 2. Quick Ducting Band | 12. Carry Handle |
| 3. Intake Nozzle | 13. GFCI Fault Reset Button |
| 4. Cord Storage Area | 14. Power Indicator Light (Orange Fault) |
| 5. Back Legs | 15. Ducting Flanges |
| 6. Side Legs | 16. GFCI Duplex Outlet |
| 7. Fan Power Switch | 17. Rubber Feet |
| 8. Fan "On" Indicator Light | 18. Bottom Vent Plate |
| 9. Console | 19. Motor/Fan Base Plate |
| 10. Exhaust Nozzle | |

Bottom Vent Plate

Rotate the disk to align the holes in the fan with the holes in the vent disk to allow air flow down to dry flooring directly under fan. For high pressure applications which forces all the air out the exhaust nozzle, rotate the holes so they are misaligned, to close the vent plate.

Identification Area (For Customers Use)

This smooth area is for product numbering or identifying ownership, location, etc.

How to Carry

WARNING:

Use proper carrying techniques when moving fans. Lift and lower with legs while back is straight and upright.

AVERTISSEMENT:

Servez-vous des techniques de transport appropriées lorsque vous déplacez des ventilateurs. Soulevez et abaissez avec les jambes tout en gardant le dos bien droit.

1. Disconnect all attachments and power cords.
2. Wrap the fans cord around intake nozzle.
3. Tilt fan on its back with exhaust outlet pointing up.
4. Carry by handle.
5. Place the fan back down on its back legs.
6. Position fan as desired.

Daisy Chaining Fans

The fan is equipped with a GFCI (Ground Fault Circuit Interrupt) duplex outlet. When the power cord of the fan is plugged into a power source, other fans or pieces of equipment can be plugged into fans power outlet. Of the 12 amps available, 1.6 is used by fan, leaving maximum of 10.4 total amps available for other fans or equipment.

WARNING:

Do not plug devices requiring a total more than 12 Amps on circuit.

AVERTISSEMENT:

Ne branchez pas des appareils exigeants un total de plus de 12 AMPS sur le circuit.

Turn off all devices before unplugging from outlets. Fans power switch only controls fans motor and does not switch on and off the GFCI outlet.

Fans circuit breaker protects fan and power being supplied to GFCI outlet. If breaker pops remove some of the down stream load from circuit then reset.

Cord Storage

Fans power cord is best stored around neck of intake nozzle.

1. Turn off fan.
2. Disconnect any additional fans or machines plugged into fans auxiliary outlet and unplug fan from its power source.
3. Remove quick ducting band.
4. Working from fan to cord plug end, lay cord out straight, remove any twists as you go.
5. Make a 2" loop in cord near strain-relief then wrap cord snugly around neck of intake nozzle coiling from bottom up.
6. Allow cord to untwist as you coil cord around intake neck.
7. Secure cord end by attaching cords plug retaining clip to cord of the previous loop.
8. Stretch the quick-ducting band over cord end for added holding.

Carpet Floating

The fan can also be used in carpet floating applications.

1. Pull back carpet, place fan at one of corners.
2. Put fans exhaust nozzle under carpet pointing towards center while sitting flat on its feet.
3. Wrap quick-ducting band around intake nozzle and corner of carpet. Be sure carpet does not cover fans air intake.

Operating Positions

This fan can be operated in almost any position or orientation.

The three main positions are; horizontal (sitting on its feet), vertical (sitting on its back exhaust pointed up), and sideways (sitting on either left or right side). For any position, do not block air intake.

- Horizontal position is used for blowing across floor surfaces.
- Vertical position is used to direct airflow up to blow on to ceiling.
- Side position is used to blow along a wall

CAUTION:

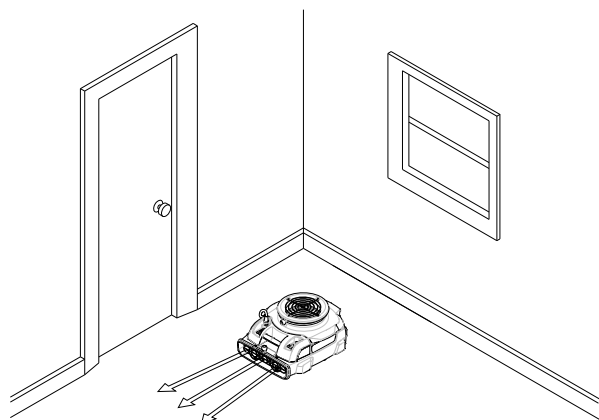
Never allow anything to block intake airflow. Be careful of objects which could be drawn against intake. The fan must sit on a level surface. Always position and orient fan before turning on.

ATTENTION:

Ne permettez jamais à quoi que ce soit de bloquer l'entrée d'air. Faites attention aux objets qui pourraient être attirés contre l'entrée d'air. Le ventilateur doit reposer sur une surface de niveau. Dirigez et orientez toujours le ventilateur avant de l'allumer.

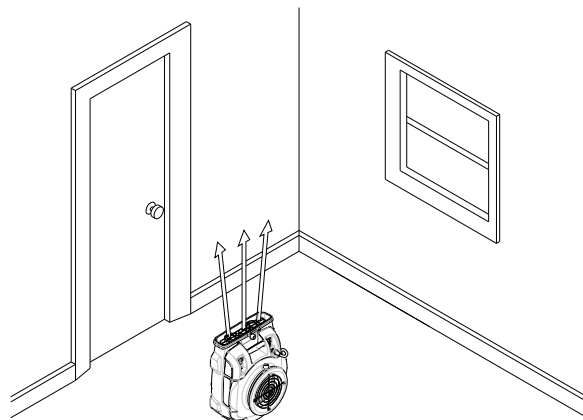
Horizontal Operation

Place fan on its rubber feet with the intake on top. Point fans exhaust in desired direction. Turn on fan.



Vertical Operation

Place fan on its back with the exhaust pointing straight up. Turn on fan.



⚠ CAUTION:

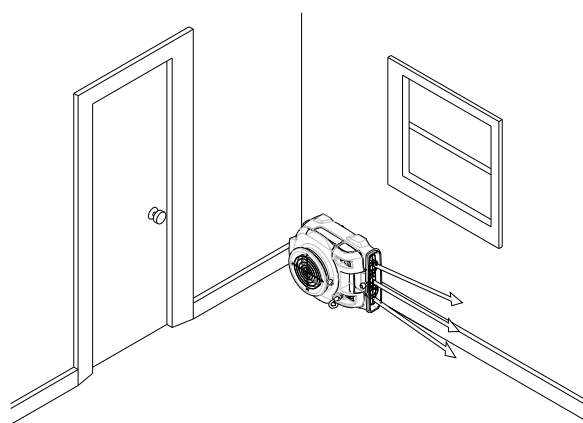
Never allow anything to block intake airflow. Be careful of objects which could be drawn against intake. The fan must sit on a level surface. In vertical or side operation, to protect floor, add barrier beneath fans soft polyethylene body. On smooth slick floors the barrier will also keep fan in place during operation. Without enough traction, the fan could move from the force of air. Always position and orient fan before turning on.

⚠ ATTENTION:

Ne permettez jamais à quoi que ce soit de bloquer l'entrée d'air. Faites attention aux objets qui pourraient être attirés contre l'entrée d'air. Le ventilateur doit reposer sur une surface de niveau. Dans un fonctionnement vertical ou latéral, afin de protéger le plancher, ajoutez une barrière sous le corps mou en polyéthylène des ventilateurs. Sur des planchers lisses et luisants, la barrière aidera également à maintenir le ventilateur en place lors du fonctionnement. Sans une traction suffisante, le ventilateur pourrait se déplacer en raison de la force d'air. Dirigez et orientez toujours le ventilateur avant de l'allumer.

Side Operation

To operate on its side, which is normally against a wall, point rubber feet toward wall, with intake vent away from wall and other possible obstructions. Turn on fan.



Ducting

WARNING:

Switch off and unplug fan from its power source before connecting ducting. Also unplug any cords plugged into the auxiliary outlets on fan.

AVERTISSEMENT:

Arrêtez et débranchez le ventilateur de sa source d'énergie avant de relier la canalisation. Débranchez également tous les cordons branchés aux sorties auxiliaires sur le ventilateur.

WARNING:

Be aware that ducting will move as it inflates or has air moving through it.

AVERTISSEMENT:

Prenez conscience que la canalisation se déplacera alors qu'elle se gonflera ou alors que l'air passera à travers.

Exhaust Ducting

NOTE: Vent plate is normally placed in closed position when using ducting.

1. Place quick-ducting band over lay-flat duct approximately 1 foot from end.
2. Slide ducting 3 or 4 inches over front exhaust nozzle, make sure it is even all around.
3. Secure in place by sliding quick-ducting band along ducting and over exhaust ducting flange.
4. Verify that ducting is sandwiched between fan exhaust nozzle and quick-ducting band and even all around making a good seal.
5. Position fan and ducting in desired orientation and location.
6. Plug fan into power source.
7. Turn off any additional fans or equipment and plug into fans onboard auxiliary outlets.
8. Switch fan on.
9. Observe ducting as air starts to flow through it, ducting may move around.
10. Switch on other equipment plugged into the auxiliary outlet.

Intake Ducting

1. Unwrap cord from cord storage area.
2. Place a quick-ducting band over ridged spiral duct about 1 foot from end.
3. Slide ducting 3 or 4 inches over top intake nozzle, make sure it is even all around.
4. Secure in place by sliding quick-ducting band along ducting and over the intake ducting flange.
5. Verify that ducting is sandwiched between fan intake nozzle and quick-ducting band and even all around making a good seal.
6. Position fan and ducting in desired orientation and location.
7. Plug fan into power source.
8. Turn off any additional fans or equipment and plug into fans onboard auxiliary outlets.
9. Switch fan on.
10. Observe ducting as air starts to flow through it, ducting may move around.
11. Switch on other equipment plugged into the auxiliary outlet.

Back Draft Prevention

WARNING:

Exhausting too much air from a space with Open Combustion Devices (e.g. furnace, fireplace or water heater) can cause those devices to back draft. This can contaminate the space with potentially fatal gases.

Évacuer trop d'air d'un espace avec des appareils à combustion ouverte (p ex., fournaise, foyer ou chauffe-eau) peut entraîner un refoulement de ces appareils. Cela peut contaminer l'espace avec des gaz potentiellement mortels.

Use the fan as a recirculating unit only. Exhausting no air from the space and thus causing no negative pressure or back drafting.

OR

Exhaust a very limited amount of air, which does not cause back drafting.

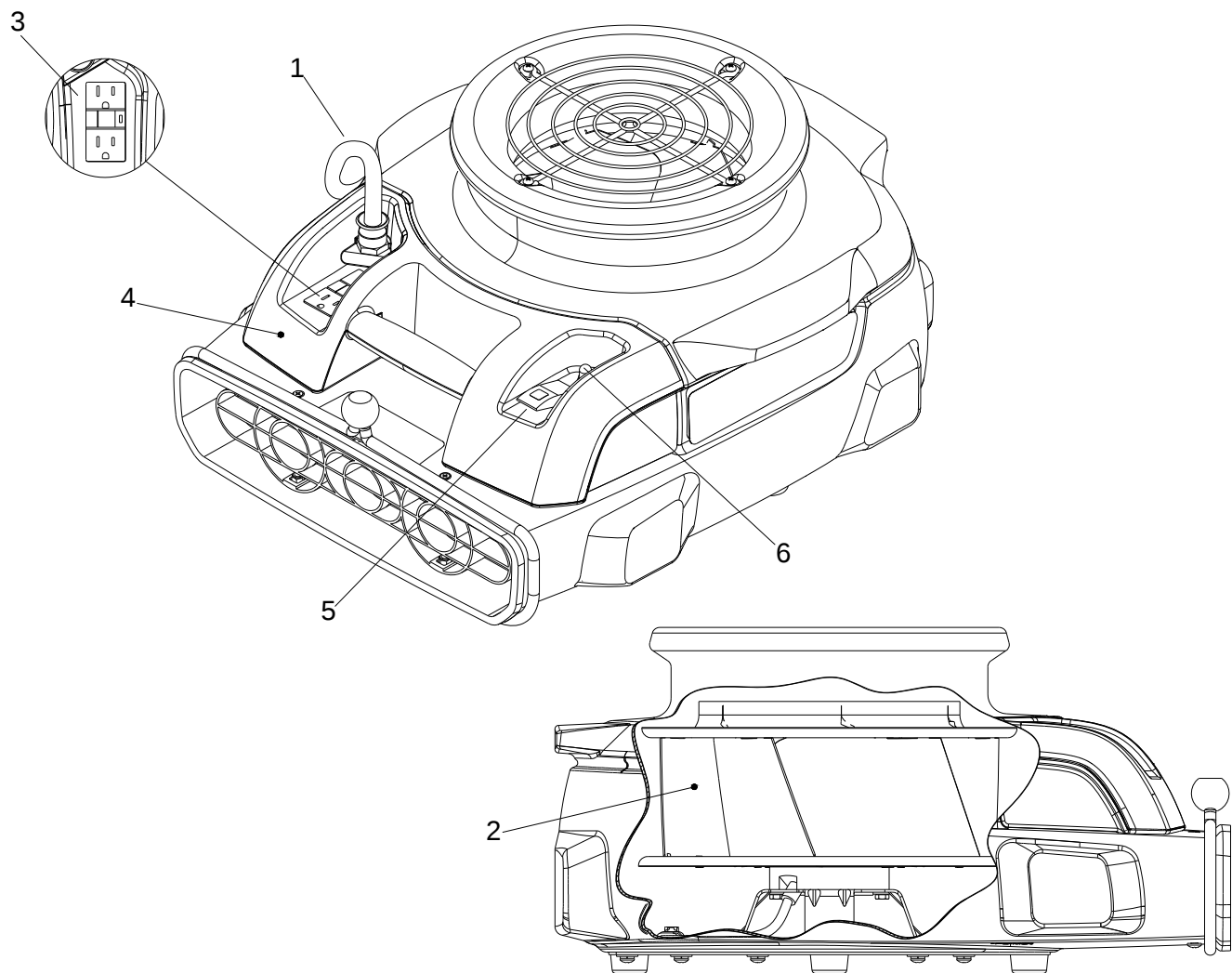
OR

Direct one or more outlet ducts from the fan to the room with combustion devices. This will positively pressurize the room, thus preventing back drafting.

WARNING:

When exhausting air from a space, always check Combustion Devices with the fan running to guarantee that back draft prevention measures are working.

En évacuant l'air d'un espace, toujours vérifier que le ventilateur des appareils à combustion ouverte est en marche pour garantir l'efficacité des mesures de prévention antirefoulement.



Service Components

1. Power Cord
2. Motor/Fan Assembly
3. GFCI Duplex Outlet
4. Console
5. Fan Power Switch
6. Circuit Breaker

Stacking

During storage or transporting, fans can be stacked to minimize required space. Always secure fans in place with appropriate strapping. **Do not stack fans any more than 4 high.**

WARNING:

Never operate fans while they are stacked. This could result in damage to the motors.

AVERTISSEMENT:

N'actionnez jamais les ventilateurs lorsqu'ils sont empilés puisque les prises d'entrée d'air seront recouvertes. Ce qui pourrait endommager les moteurs.

1. Stack fans by placing the first one with its feet flat on a level floor. The power cord should be wrapped around intake nozzle in its standard cord storage position.
2. Nest the feet of second fan over the intake nozzle of first one.
3. Strap fans together, and to a stable, strong structure, especially in a moving truck.

Storing in Warehouse and in Delivery Truck

Fans can be stored flat on their feet, on their backs, or on their sides. Always store them inside away from weather, in an area not exposed to excessive heat or cold.

It is **NOT** recommended to stack fans vertically for long periods of time. To minimize the amount of shelf space required during storage, place fans on their sides.

Always secure stored fans, especially in a moving vehicle and or when stacked.

NOTE: Do not store upside down with their intake nozzle towards the floor or with the exhaust nozzle pointed towards the floor.

Cleaning Fan

The fan can be wiped down with a cleaning cloth.

WARNING:

Always unplug power and any other attached components before cleaning. Always keep liquids away from all electrical components.

AVERTISSEMENT:

Débranchez toujours la prise électrique et tous les autres composants fixes avant le nettoyage. Tenez toujours les substances liquides à bonne distance de tous les composants électriques.

NOTE: The fan is best cleaned after being disassembled. Never plug in or operate the fan in any state of disassembly.

1. Remove the motor/fan assembly from main housing by removing base plates 6 screws.
2. While lowering base plate motor assembly out of housing, detach the main harness electrical connector from fan motor.
3. Wipe fan blades, motor mounting plates and inside of housing.

For further cleaning, remove electrical console:

4. Remove the 4 back and bottom console mounting screws from inside the housing.
5. Feed harness through holes in housing as it is removed. The main housing should now be free of any electrical components and can be safely cleaned with most cleaning chemicals. High pressure can also be used to clean housing now. Do not use high temperature air or liquids on plastic housing.
6. Finger guards are also bolted on, and can easily be removed for cleaning.
7. To reassemble, reverse the disassembly steps.

NOTE: Always inspect all parts for damage during disassembly and reassembly and have an authorized service center replace any damaged components with factory replacement parts.

⚠ WARNING:

Always disconnect all auxiliary power cords and accessories from fan before servicing. Always disconnect fan from all power sources. Never run or operate fan without all components in place especially protective covers and grills.

⚠ AVERTISSEMENT:

Débranchez toujours tous les cordons électriques et les accessoires auxiliaires du ventilateur avant l'entretien. Débranchez toujours le ventilateur de toutes les sources d'électricité. Ne faites jamais fonctionner ou n'actionnez jamais le ventilateur sans tous ses composants et plus particulièrement, les couvercles protecteurs et les grilles.

Replacing Fan/Motor Assembly

1. Remove the motor/fan assembly from main housing by removing base plates 6 screws.
2. While lowering base plate motor assembly out of housing, detach the main harness electrical connector from fan motor.
3. Rotate bottom vent plate and align access holes. Insert tool through holes and remove 4 mounting screws from fan/motor assembly.

NOTE: The motor/fan is replaced as a matched unit, never disassemble the fan from motor.

4. Reverse steps to reassemble.

Removing Electrical Console

1. To remove the console assembly first remove the fan/motor base plate assembly.
2. To remove electrical console from main housing, remove 4 screws from inside the housing that mount to back and bottom of console.
3. Feed harness through holes in housing as it is removed.
4. Reverse steps to reassemble.

Replacing GFCI

1. Remove electrical console from main housing.
2. Remove screws bolting two halves of the console together. Carefully separate the two halves taking note of wire placement and routing.
3. Swing top half of console away from bottom far enough to access mounting screws for the GFCI, and remove.
4. Remove GFCI from housing and detach electrical wires, noting all wire connections for reassembly. Also consult wiring diagram during reassembly.
5. The original GFCI has one corner tab removed to clear housing. Remove this same tab from new GFCI and assemble in same orientation.
6. Torque the GFCI screws to 15 in-lbs.

Replacing Switch

1. Remove electrical console from main housing
2. Remove the screws bolting the two halves of the console together. Carefully separate the two halves taking note the wire placement and routing.
3. Swing top half of console away from bottom far enough to access back of switch.
4. Press in mounting ears on each side of switch and slide body out top of housing.
5. Note the wire attachment locations and colors/numbers and orientation of switch for reassembly.
6. Reverse steps while consulting wiring diagram to reassemble.

Replacing Power cord

1. Remove electrical console from main housing
2. Remove screws securing console halves together. Carefully separate two halves noting wire placement and routing.
3. Swing console halves open enough to access back side of power cord.
4. Remove mounting nut from the trumpet shaped strain relief. Disconnect wires noting location and connections.
5. Reverse steps while consulting wiring diagram to reassemble.

Circuit Breaker

1. Remove electrical console from main housing
2. Remove screws securing console halves together. Carefully separate two halves noting wire placement and routing.
3. Swing console halves open enough to access back side of breaker.
4. Before disconnecting circuit breaker note line and load labeling, it is important that it is reconnected properly. Disconnect wires from breaker.
5. Remove clear rubber boot on outside of housing and slide breaker through hole in console.
6. Reverse steps while consulting wiring diagram to reassemble.

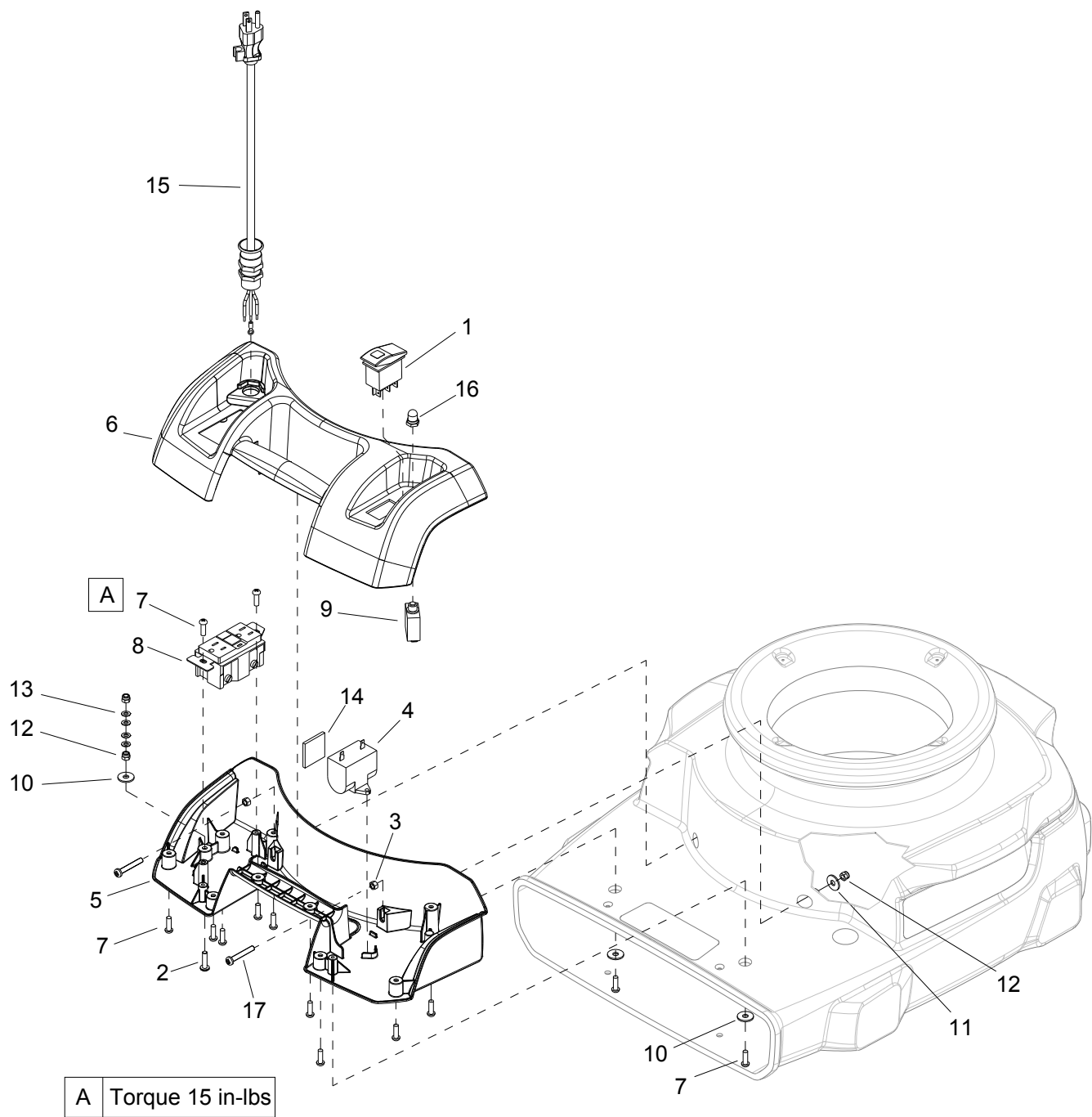
Capacitor

1. Remove electrical console from main housing
2. Remove screws securing console halves together. Carefully separate two halves noting wire placement and routing.
3. Swing console halves open enough to access capacitor, remove.
4. Before disconnecting capacitor, note wire connections, locations and color / numbers for reassembly. It is important that it is reconnected properly. Disconnect wires from capacitor.
5. Reverse steps while consulting wiring diagram to reassemble.

Troubleshooting

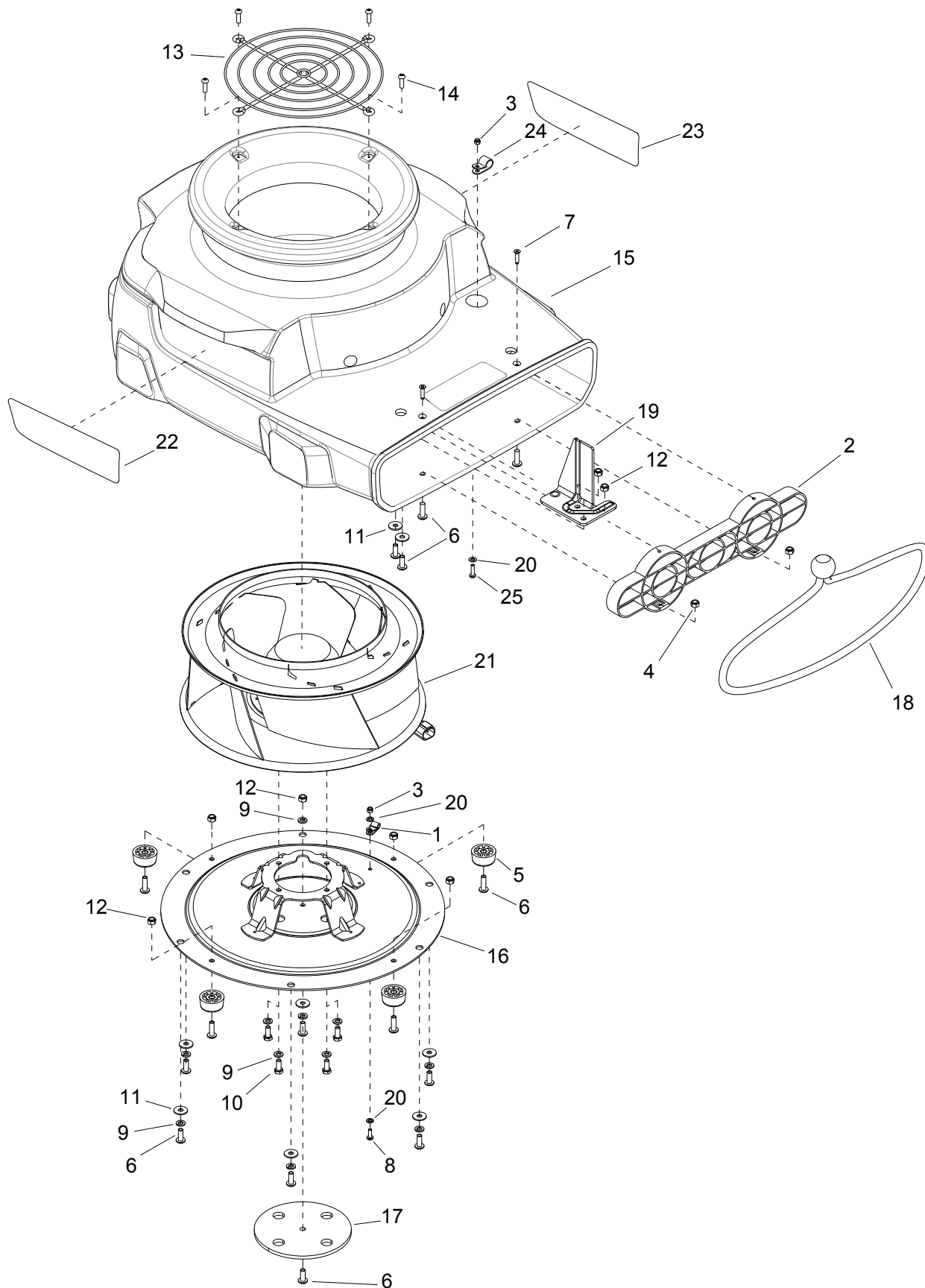
PROBLEM	CAUSE	SOLUTION
No Power, Nothing Runs	Power cord not plugged in	Plug in cord
	Circuit breaker tripped on fan console	Find source of fault, correct, reset breaker
	GFCI tripped on fan console	Find source of fault, correct, reset GFCI
	Circuit breaker tripped in building	Reset Breaker
	Loose wiring connectors	Check wiring, ensure good connection
	Faulty circuit Breaker	Replace Breaker
	Faulty GFCI	Replace GFCI
Fan Runs but poor air flow	Intake nozzle is blocked	Remove blockage
	Exhaust nozzle is blocked	Remove blockage
Fan will not run, but GFCI outlet has power	Loose wiring connectors	Check wiring, ensure good connection
	Faulty switch	Replace switch
	Faulty motor capacitor	Replace Capacitor
	Faulty fan motor	Replace motor / impeller assembly
GFCI does not have power, but fan runs	Loose wiring connectors	Check wiring, ensure good connection
	Faulty GFCI	Replace GFCI
Light on switch does not work but fan runs	Loose wiring connectors	Check wiring, ensure good connection
	Faulty switch	Replace switch

PARTS

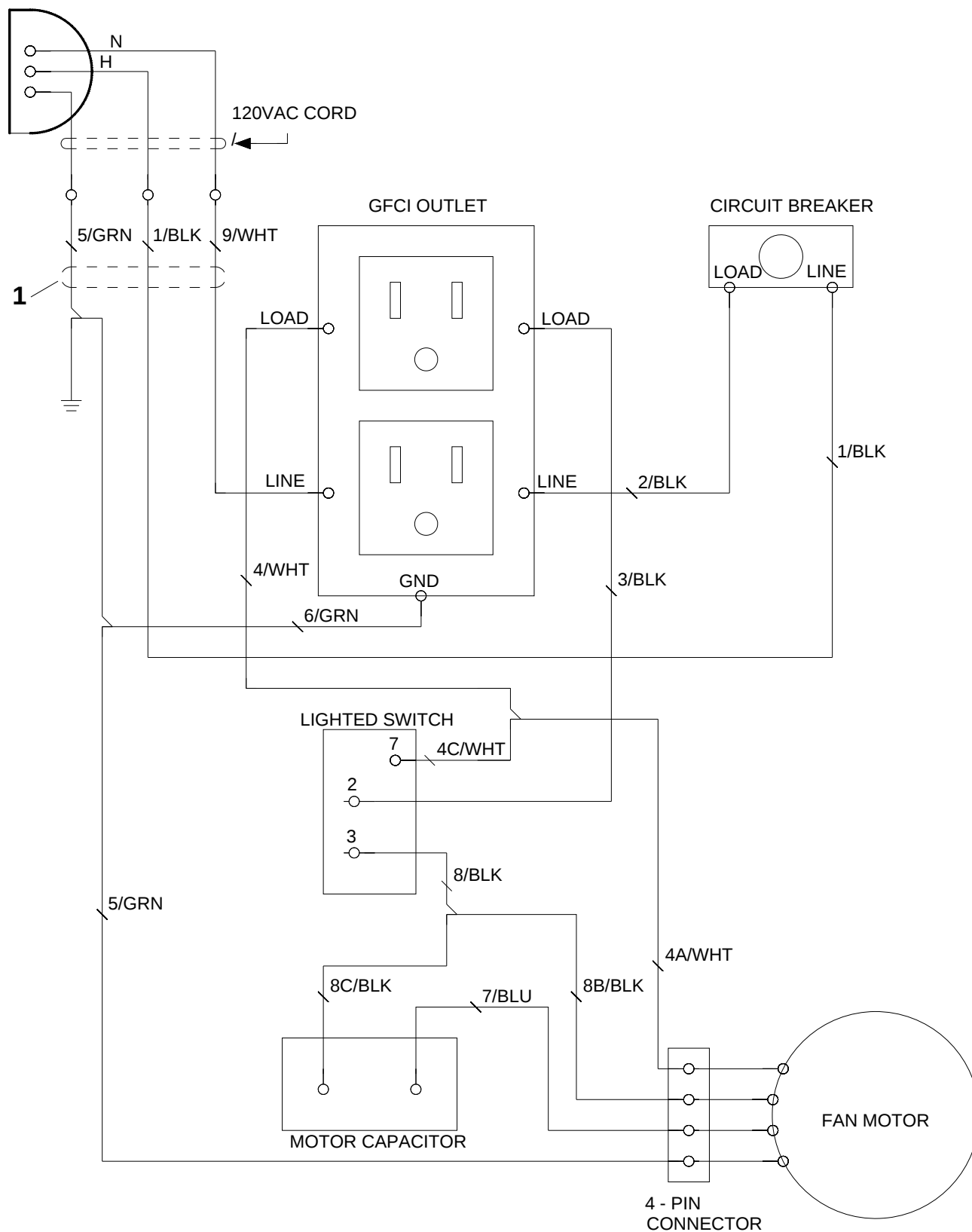


REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	98024510	-	1	SWITCH, LIGHTED 2-POS ROCKER		
2	86172820	-	1	SCR,M5 X 20 ,PHMS,ISO7045, SST		
3	86331680	-	2	NUT, M5 HEX SS		
4	86329780	-	1	CAPACITOR, 15MICROFARAD		
5	86329760	-	1	CONSOLE, ELECT, LOWER		
6	86329750	-	1	CONSOLE, ELECT, TOP		
7	86327510	-	13	SCR, KA50X16, PT OHS, WN1412, A2 SS		
8	86327360	-	1	GFCI, NEMA 5-15, 15A 125V		
9	86327350	-	1	BREAKER, 12A, 250VAC		
10	86013850	-	5	WASHER, M6, FNDR, ISO7039,SS		
11	86012970	-	2	WASHER, M5, FNDR, ISO7039,SS		
12	86024750	94028	4	NUT, M5 HEX NYLOCK, SS		
13	86010640	87016	4	WASHER, #10 EXT STAR SS		
14	98022090	-	1	MOUNTING SQUARES, DBL BACKED TAPE		
15	86335780	-	1	CORD, SET		
16	86002010	14942	1	BOOT, 3/8 CIRCUIT BREAKER		
17	86338170	-	2	SCR, M5 X 35 PPHMS SS		

Housing and Motor



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86198450	20005	1	CLAMP, 5/16 NYLON		
2	86218420	36212	1	GUARD, FRONT, AB		
3	86172630	57314	2	NUT, M4, LK, ISO7040,SST		
4	86335770	-	2	NUT, M6, SS		
5	86217910	66352	4	FOOT, BLOWER		
6	86274340	70179	15	SCR, M6 X 16 PH		
7	86275800	70546	2	SCR, 8 X 3/4 PFHT/S BLK ZINC		
8	86172860	70897	1	SCR, M4X12, PPHMS, ISO7045,SST		
9	86173310	87499	11	WASHER,SPRING LK,6MM,DIN127B,SS		
10	86223930	739996	4	SCR, M6 X 15 HHCS SS		
11	86013850	-	8	WASHER, M6, FNDP, ISO7039,SS		
12	86172650	57508	7	NUT, M6, LK, ISO7040, SST		
13	86322680	-	1	FINGER GUARD, INTAKE, HPAM		
14	86327510	-	4	SCR, KA50X16, PT OHS, WN1412, A2 SS		
15	89198520	-	1	HOUSING, AIR MOVER, TRIM (BLUE)		
16	86329800	-	1	MOTOR MOUNT, A.M.		
17	86329830	-	1	PLATE, DIFFUSER		
18	86342290	-	*	SET, 50 DUCT RETAINERS		SOLD IN SETS OF 50 ONLY
19	89186580	-	1	BRACKET MOUNTING PAINTED, AL AIR MOVER		
20	86010640	-	3	WASHER #10 LOCK EXT STAR SS		
21	86332750	-	1	MOTOR ASM, 115VAC, AIR MOVER		
22	86332330	-	1	LABEL, TRIAD, RIGHT		
23	86332340	-	1	LABEL, TRIAD, LEFT		
24	86002370	20035	1	CLAMP, 7/16 DIA NYLON UL		
25	86172890	-	1	SCR, M4 X 16 PPHMS ISO7045,SST		



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86330890	-	1	HARNESS, AIR MOVER		

Suggested Spare Parts

PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
98024510	-	1	SWITCH, LIGHTED 2-POS ROCKER		
86329780	-	1	CAPACITOR, 15MICROFARAD		
86327360	-	1	GFCI, NEMA 5-15, 15A 125V		
86335780	-	1	CORD SET		
86002010	14942	1	BOOT, 3/8 CIRCUIT BREAKER		
86217910	66352	4	FOOT, BLOWER		
86311900	-	1	CLIP, X-MAS TREE, 1/4", BLACK		
86342290	-	*	SET, 50 DUCT RETAINERS		SOLD IN SETS OF 50
86332750	-	1	MOTOR ASM, 115VAC, AIR MOVER		