

USER GUIDE & SAFETY MANUAL

Power Dart Blower (220 VAC)



CONDUX

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

Read and understand all procedure and safety instructions before using a Condux Power Dart® Blower. Observe all safety information on this page and note specific safety requirements as explained by procedures called out in this manual. Failure to follow these instructions could result in serious personal injury or death.

ADVERTENCIA:

Favor de leer y comprender todas las instrucciones de operación y seguridad antes de usar la máquina. Si Ud. no comprende las instrucciones favor de consultarle a su jefe.



!WARNING: Read and understand all procedure and safety instructions before using the Condux® Power Dart® Blower. Failure to do so may result in serious personal injury or death. Save this user's guide for future reference.



!ADVERTENCIA: Favor de leer y comprender todas las instrucciones de operación y seguridad antes de usar el Condux® Power Dart® Blower. Si Ud. no comprende las instrucciones favor de consultarle a su jefe.



!CAUTION: Wear personal protective equipment: hard hat, safety glasses, safety shoes, and leather work gloves.



!DANGER: Do not wire incorrectly. Severe personal injury, death, or property damage could result.



!WARNING: Forced air creates flying debris. Always wear personal protective equipment. Severe personal injury could result.



!DANGER: The Power Dart® Blower is an electrical device. Use proper precautions during its setup and operation. Failure to do so could result in severe personal injury or death.



!WARNING: Ensure no personnel are in the destination access vault during the blowing operation. Severe personal injury could result.



If you have questions on:

SAFETY • OPERATIONS • APPLICATIONS

CALL 1-800-533-2077 or 1-507-387-6576

IMPORTANT SAFETY INSTRUCTIONS

BEFORE YOU USE THIS PRODUCT

Grounding Instructions

1. This 220 Volt Power Dart Blower should be grounded while in use to protect the operator from electric shock. The Power Dart Blower is equipped with a 3-conductor cord. It must be fitted with a 3-prong grounding type plug to fit the proper grounding type receptacle. The green and yellow conductor in the cord is the grounding wire. Never connect the green and yellow wire to a live terminal. See Figure 1

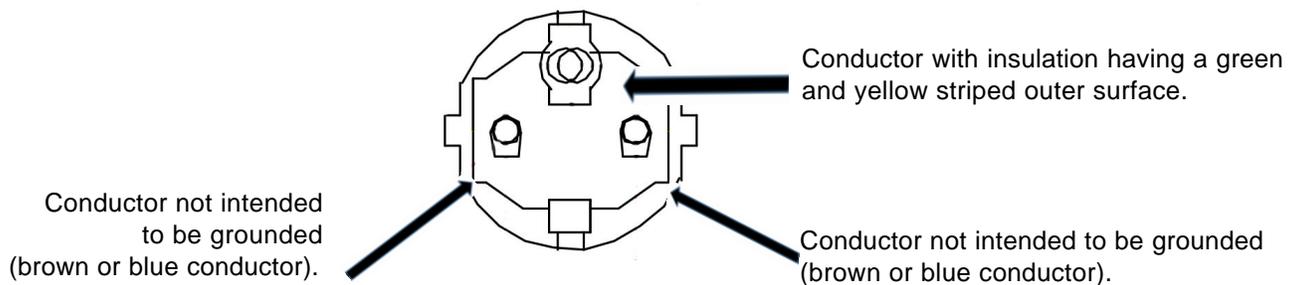


Figure 1 Connection to Attachment Plug

2. Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole receptacles that accept the Power Dart Blower's plug.

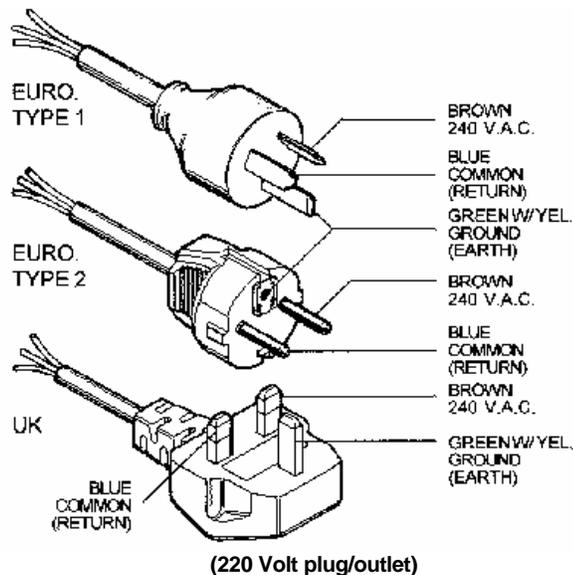


Figure 2 Properly grounded plug/outlet connections

Extension Cords

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IMPORTANT SAFETY INSTRUCTIONS

Outdoor Use Extension Cords

- If used outdoors, the extension cord must be marked with the suffix W-A following the cord type designation (e.g., STJW-A).
- Use an extension cord with the proper wire size for the length of the cord. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating (See Chart below).

Total Amps Ext.	0 - 2.0	2.1 - 3.4	3.5 - 5.0	5.1 - 7.0	7.1 - 12.0	12.1 - 16.0	16.1 - 20.0
Ext. Cord Length	Wire Size						
25 ft.	18	18	18	18	16	14	12
50 ft.	18	18	18	16	14	12	10
75 ft.	18	18	16	14	12	10	8
100 ft.	18	16	14	12	10	8	8
150 ft.	16	14	12	12	8	8	6
200 ft.	16	14	12	10	8	6	4
300 ft.	14	12	10	8	6	4	4
400 ft.	12	10	8	6	4	4	2
500 ft.	12	10	8	6	4	2	2
600 ft.	10	8	6	4	2	2	1
800 ft.	10	8	6	4	2	1	0
1000 ft.	8	6	4	2	1	0	0

- Position the cord so that it will be clear of any rotating parts and will not be a trip hazard to the operator.

Don't Abuse Electrical Cord

- Never lift or carry the Power Dart Blower by the cord, and never yank the cord to disconnect it from the receptacle. Keep the cord away from heat, oil, and sharp edges.
- Do not use the Power Dart Blower if a switch is malfunctioning. Have it replaced by an authorized service center.

Disconnect Tools

- Always disconnect the power when not in use and before installing, removing, or servicing the Power Dart Blower.

Keep Work Area Clean

- Cluttered areas invite injuries.

Consider Work Area Environment

- Do not use the Power Dart Blower in wet or damp locations, and do not expose it to rain.
- Keep the work area well-lit.
- Do not use the Power Dart Blower in the presence of flammable liquids or gases.

Guard Against Electric Shock

- Guard against shock, while operating the Power Dart Blower, by preventing bodily contact with grounded surfaces (e.g., metal pipes).

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IMPORTANT SAFETY INSTRUCTIONS

Keep Children Away

14. Do not let anyone but the operator touch the Power Dart Blower or the extension cord; all visitors should be kept a safe distance away from the work area.

Store Idle Tools

15. When not in use, the Power Dart Blower should be stored in a dry, secure area—out of the reach of children.

Don't Force Tool

16. Use the Power Dart Blower only for its designed use; do not force the blower to perform beyond its capabilities.

Dress Properly

17. Do not wear loose clothing or jewelry; they can become caught in moving parts.

Use Safety Glasses

18. Work gloves, non-skid safety boots, safety glasses, and a hard hat should always be worn.
19. Operators with long hair, should contain their hair beneath their hard hat.

Don't Overreach

20. Keep proper footing and balance at all times.

Maintain Power Dart Blower with Care

21. Inspect the Power Dart Blower's cord periodically, and if damaged, have it repaired or replaced by an authorized service center. Inspect extension cords periodically, and if damaged, replace them. Keep the Power Dart Blower dry, clean, and free from oil and grease.

Stay Alert

22. Watch what you are doing. Use common sense. Do not operate the Power Dart Blower when you are tired.

Check for Damaged Parts

23. Before further use of the Power Dart Blower, any damaged part should be carefully inspected to determine that it will operate properly and perform its intended function. Check for proper alignment of moving parts and that there is no binding. Ensure all mounting hardware is securely fastened. Any damaged part should be properly repaired or replaced by an authorized service center.

Avoid Unintentional Starting

24. Do not carry the Power Dart Blower if it is plugged in, and be sure the switch is off before plugging in the power cord.

Secure Work

25. Secure the conduit to its associated structure before blowing string through it.

SAVE THESE INSTRUCTIONS

General Information

The Condux® Power Dart® Blower uses three 4 Amp motors to deliver a maximum of 8.5 m³/min (300 ft³/min) of forced air. It easily blows poly line or measuring tape over 610 meters (2000 feet) in up to 152 millimeter (6 inch) diameter conduit. The unit requires an electrical outlet rated for at least 12 Amps or a 2700-watt generator.

Weighing only 14 kilograms (30 pounds), the unit can be set up anywhere with ease. The complete kit contains 7.6 meters (25 feet) of air hose, assorted conduit seal-offs, and an assortment of line missiles. An optional accessory bag is also available.

Additional Safe Operating Practices

The Condux® Power Dart® Blower is designed for safe operation, however, these safety precautions must be followed:

1. Follow all standard access vault opening procedures, including work area protection and gas detection.
2. Be aware of all utility lines in the immediate area and do not work around live circuits.
3. Ensure the electrical outlet or generator is rated for at least 12 Amp or 2700 watts—a fire could result from wiring overheating.

Tool Setup

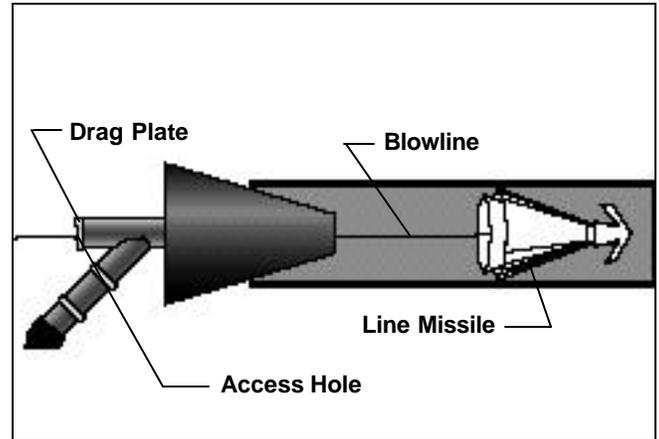
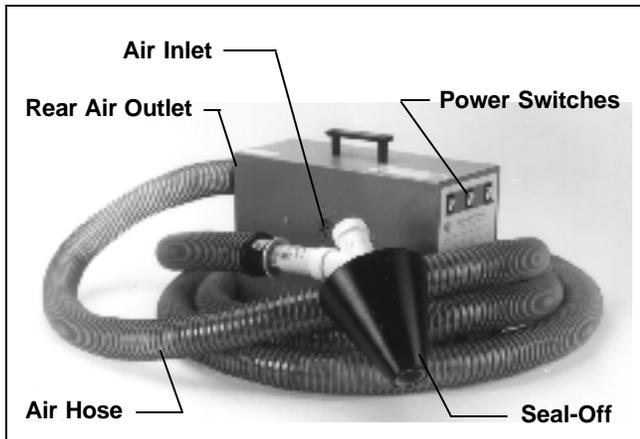
NOTE: Know the approximate length of the conduit run to ensure the blowline is long enough to reach the destination.

1. Set the Power Dart® Blower on a clean, dry surface. Ensure the **power switches** are accessible to the user and the **air inlets** are not blocked.
2. Check that all 3 power switches are off, & plug the unit into a 220 VAC single-phase outlet (rated for at least 12 amperes) or a generator with at least a 2700 watt capacity.
3. Attach the **air hose** to the unit's **rear air outlet**, and attach the correct **seal-off** to the air hose's other end.
4. Insert the **blowline** through the **access hole** on the rear of the seal-off, and attach it to the **line missile** or foam carrier with a secure knot.
5. Adjust the **drag plate** on the rear of the seal-off to put a slight drag on the blowline.
6. Place the line missile or foam carrier into the duct and then securely hold the seal-off in the duct opening.
7. Turn on one power switch at a time to avoid overloading the circuit.
8. To control the missile's speed, remove the seal-off from the duct—**DO NOT GRAB THE BLOWLINE WITH YOUR HAND.**
9. Turn off the power switches when the missile reaches its destination.

Fuse Replacement Procedure

NOTE: Each motor has a protective fuse. They are conveniently located on the front panel's lower right corner.

1. Use a straight-slot screwdriver to rotate the **fuse holder** ¼ turn counterclockwise.
2. Pull the fuse holder out and remove the fuse.
3. Insert a new fuse (rated for 250 V, 7 Amps) into the holder.
4. Push the fuse holder into its receptacle and rotate it ¼ turn clockwise.



Troubleshooting Guide

Problem

Missile does not exit at destination

Possible Causes

- Duct is obstructed
- Duct is not airtight
- Duct length is too long
- Missile is worn or the wrong size
- Too much tension on blowline
- Too many bends in the conduit

Blowline builds up in duct

- Drag plate is not properly set
- Missile is worn or the wrong size

Unit does not turn on

- Blown utility fuse—not rated for 12 amperes
- Blown fuse in Power Dart Blower
- Bad electrical connection

Replacement Parts List

Part Description

Outlet Fitting
 Plastic Handle
 Power Switch
 2.1m Power Cord (2.5mm, 3 Con.)
 Fuse, (250V, 7 Amp)
 Label Kit

Part Number

08039302
 08066700
 02230600
 00181800
 02262200
 08065226

Limited Warranty

Condux International, Incorporated extends the following warranty to the original purchaser of these goods for use, subject to the qualifications indicated:

Condux International, Incorporated warrants to the original purchaser for use that the goods or any component thereof manufactured by Condux International will be free from defects in workmanship for a period of one year from the date of purchase, provided such goods are installed, maintained, and used in accordance with Condux's written instructions.

Components not manufactured by Condux International but used within the assembly provided by Condux International are subject to the warranty period as specified by the individual manufacturer of said component, provided such goods are installed, maintained, and used in accordance with Condux's and the original manufacturer's written instructions.

Condux's sole liability and the purchaser's sole remedy for a failure of goods under this limited warranty, and for any and all claims arising out of the purchase and use of the goods, shall be limited to the repair or replacement of the goods that do not conform to this warranty.

To obtain repair or replacement service under the limited warranty, the purchaser must contact the factory for a Return Material Authorization (RMA). Once obtained, send the RMA along with the defective part or goods, transportation prepaid, to: Condux International, Inc.
145 Kingswood Drive
Mankato, MN 56001 USA

THERE ARE NO EXPRESS WARRANTIES COVERING THESE GOODS OTHER THAN AS SET FORTH ABOVE. THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF PURCHASE.

CONDUX ASSUMES NO LIABILITY IN CONNECTION WITH THE INSTALLATION OR USE OF THIS PRODUCT, EXCEPT AS STATED IN THIS LIMITED WARRANTY. CONDUX WILL IN NO EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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