



MANUAL
PRO-100 & PRO-400

Observe all safety precautions at all time:

Warning and Danger Symbols are used to advise the operator



Read all chemical labels prior to use. Wear the appropriate safety equipment



Warnings

- Do not spray in heavy winds
- Keep children and pets away while spraying
- Mix chemicals in properly marked separate containers before pouring the premixed chemicals into the sprayer, whenever possible
- Avoid direct personal contact with chemicals
- Review manual before operating your Spray Applicator
- Do not modify the sprayer in any way, use only manufacturers repair parts and accessories
- Be sure all parts are in good working order before spraying. Check sprayer daily
- Do not eat, drink or smoke while operating your spray applicator
- Fill in well ventilated areas
- Be sure the sprayer is properly stored when transporting
- Do not use flammables, caustic or corrosive materials in the sprayer
- Adjust sprayer shoulder harness for proper fit before using

End of day

- Empty sprayer contents into properly marked containers, rinse sprayer using clean water.
- Keep sprayer clean at all times
- Wash thoroughly using soap and water, wash all clothing before reuse



Danger

- Do not spray any wires, cables or power areas. The sprayer is not grounded and a risk of shock could occur.

**INTERIOR - EXTERIOR
LIQUID & FOAM
SPRAYING SYSTEM**

**18 VOLT DC BATTERY OPERATED
120V FAST CHARGE SYSTEM**

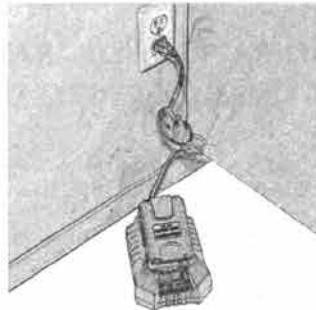
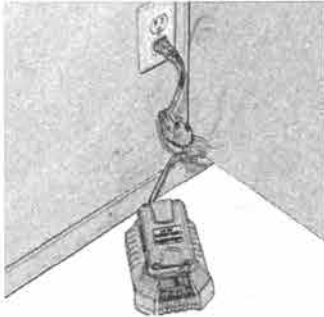
**CONTENTS
1 GALLON AND 4 GALLON**

- 1- Applicator with 2 speed flow switch
- 1 - Detachable Trigger Gun Assembly
- 1 - Extension Wand Assembly
- 1 - 120 Volt AC Fast Charger
- 1 - 18 Volt DC Battery
- 1 - High Flow Pin and Cone Spray Tip
- 1 - High Flow Fan Spray Tip
- 1 - Low Flow Pin and Cone Spray Tip
- 1 - Low Flow Fan Spray Fan Tip
- 1 - Screen Check Valve

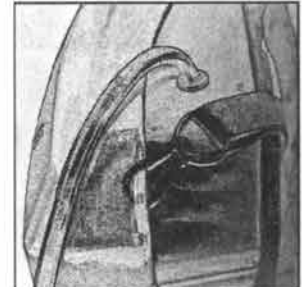
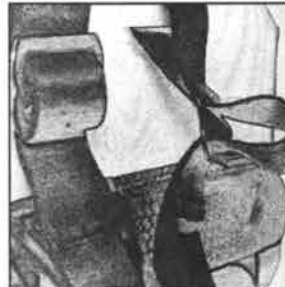
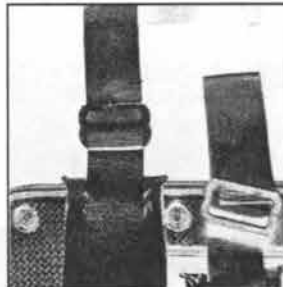
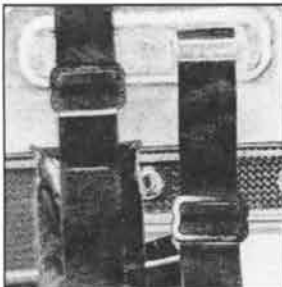


Assembly

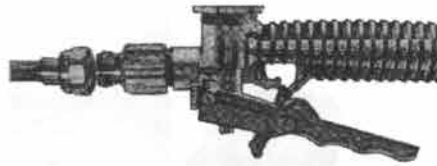
1. Plug charger into an AC receptacle, snap in battery. The battery will charge in approximately 1.5 hours. Wait until the green light on the charger turns on, showing the battery is completely charged.



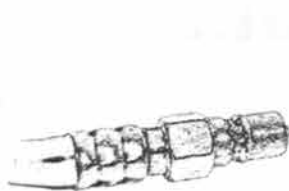
2. Install and adjust the shoulder straps for a comfortable fit. (Some models will not have straps)



3. Select your spraying tip, insert screen filter and thread onto the 11/16 brass adaptor. Tips should be hand tightened only to provide a seal. Internal tip O Rings provide a "No Wrenches Required" seal. You can also connect directly to the Trigger Gun



4. Connect the assembled Trigger Gun to the output hose from the sprayer.





Start Up Instructions

1. Charge the battery before use.
2. Test the applicator in a non-contaminated water only environment for the first time. Install each tip and use. This provides a visual of the output performance of the applicator and each tip.
3. Test High and Low flow speed settings.
4. Other tips and accessories are available.

COMPONENT OVERVIEW

SPECIFICATIONS

- Construction Materials; Polyethylene, Polypropylene
- Hose PVC
- 18 Volt DC Lithium Ion Battery
- Quick Release dripless brass connectors
- Light Weight
- Slim line design, stays close to the body
- Expandable output Hose; up to 100 feet
- Battery continuous use: 1.5h on high, 4h on low
 - Battery recharge 90 minutes
- Battery can recharge from truck using a 300 Watt inverter
- Two Speed Motor
- Removable Telescopic Wand
- Detachable Trigger Gun Assembly

PRO-100

Shipping Description:

Weight: 10.5 Lbs.

Box: 13.5 x 8 x 18h Inches

1 sprayer per case

PRO-400

Shipping Description:

Weight: 12 Lbs.

Box: 14 x 9 x 23h Inches

1 sprayer per case

ACCESSORIES PURCHASED SEPARATELY

PRO-MC

Mobile Cart for PRO-400 model
Interior & Exterior Backpack System



EXTENSION HOSE

PRO-EXH 25 Foot Liquid Extension Hose 1/4 c/w brass fittings



PRO-FT

Spray Max Foam Tip



NEED EXTRA COMPONENTS

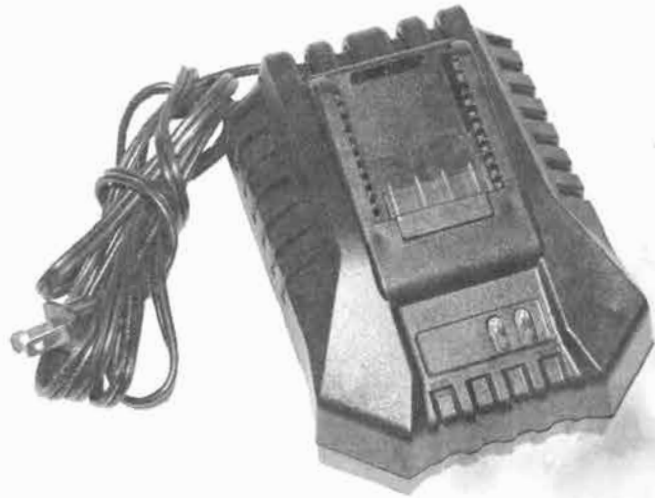
PRO-18V

18 Volt DC Rechargeable Battery



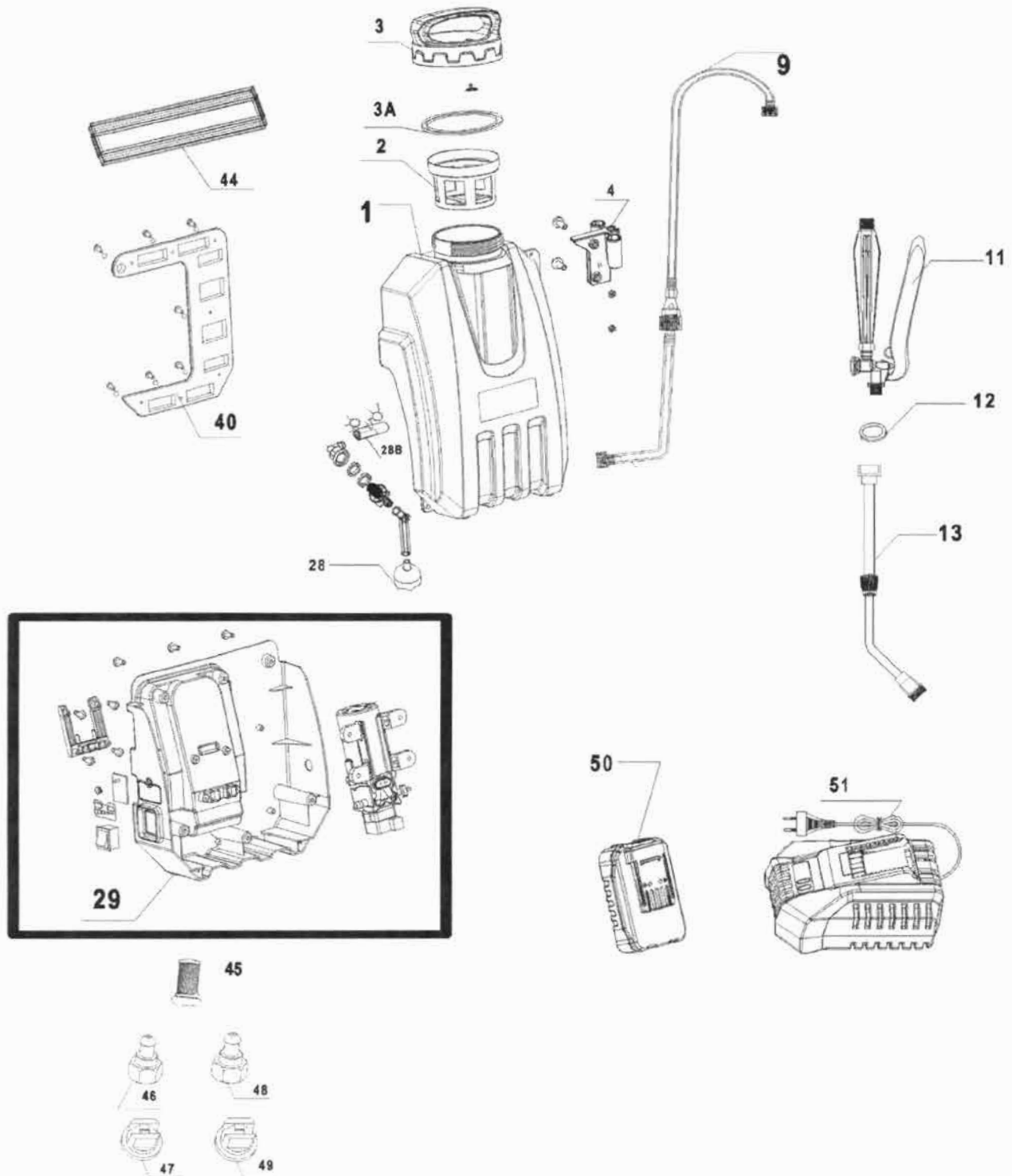
PRO-120V

120 Volt Quick Charger



Replacement Parts Call 877-734-0932

Parts Line Drawing



Replacement Parts Call 877-734-0932

Number	SKU	Description
1	PDS-1-1G	Tank 1 Gallon, Pro-100
1	PDS-1-4G	Tank 4 Gallon, Pro-400
2	PDS-2	Screen Filter
3	PDS-543B	Lid with Seal, Black
3A	PDS-543A	Lid Seal
4	PDS-678	Wand Mounting Bracket
9	PDS-125-11-QD	Hose Connection to Pump + Hose Assembly for QD Gun
11	PDS-6111-QD	Trigger Gun Metal 11/16 th Output w/ Quick Disconnect
12	2-112N900	O Ring Seals all output tips and wand
13	PRO-100W	10"-18" Extension Wand (For Pro-128)
13	PRO-400W	20"-39" Extension Wand (For Pro-320 & Pro-51
28	PDS-24-28	Siphon Tube, Screen Filter and Connection Tube
29	PDS-2939-183330	Operating System (Pump, Switch, Circuit Board, Case)
40	PDS-404142	Cushion – Back Padding and Screws
44	PDS-44	Shoulder Strap Harness Complete Set
45	PDS-0094	Screen and Check Valve
46	PDS-08	High Flow Pin and Cone Tip Brass
47	T-8002	High Flow Fan Spray Tip Brass
48	PDS-03	Low Flow Pin and Cone Tip Brass
49	T-8001	Low Flow Fan Spray Tip Brass
50	PRO-18V	18 Volt DC Rechargeable Battery
51	PRO-120V	120 Volt Quick Charger
		ACCESSORIES
	PRO-FT	Cover X Foam Tip
	PRO-PFP	ProFoam Platinum (4 x 1 Gallon Bottles)
	PRO-TT	Spray Max Turf Tip Nozzle
	PRO-MC	Mobile Cart
	PRO-EXH	25"Extension Hose
	PDS-6111-13	Trigger Gun Repair Kit
	SKU-2-112EWS	Wand Seal Replacement Kit

Maintenance

Daily

Check your sprayer for any leaks, complete repairs immediately before spraying.

Clean your system at the end of everyday, use properly labeled containers to empty the sprayer chemicals into prior to cleaning. Inspect sprayer tank lid seals and lubricate as required.

Your sprayer has 3 screen filters to maintain:

1 - Screen Filter under Tank Lid. Pour your chemicals through this filter. Any unmixed chemical particles will be captured here and not allowed to enter into the pump causing blockages.

2 - On the inside and at the bottom of the tank, is the pump siphon tube. This tube can be rotated up to inspect the screen filter for debris. Any debris located here can cause the pump to lose prime and cavitate.

3 - The sprayer also comes with an inline screen and check valve filter. This filter is installed in the output nozzle of the Trigger Gun or at the end of the telescopic wand. Clean filter as required

Store battery inside a clean and dry environment, charge battery as required. At the end of your days work and overnight is traditionally the most convenient. This provides a full charge before starting your next days work. Disconnect trigger gun and wand assembly throughout the day as required. Disconnecting the trigger gun and wand allows for easy storage of the tank and trigger gun assembly.

Monthly

Use WD-40 lubricant and spray the brass quick disconnect fittings. This will keep them functioning smoothly. Remove the telescopic wand and spray into the trigger gun adaptor nozzle while holding the trigger in the open position. This allows lubricate to flow back into the trigger valve.

Remove the trigger gun nut by turning counter clockwise, once removed spray WD40 into the spring area. Thread nut back onto trigger gun. Open and close the trigger several times, you will feel a difference in how the trigger moves more freely.

Trouble Shooting

De-pressurize and empty the sprayer before completing any repairs. Failure to complete this can cause unexpected chemical escape and a hazardous condition.

Condition	Cause	Remedy
Charge light indicator has no light. Green or Red	Faulty circuit board	Replace circuit board
Pump will not run, good indicator light, showing green	Brass Quick Disconnects	Brass disconnectors are not completely snapped together. Pull back coupler collar, push together firmly release collar
No lights working, will not run	Faulty or uncharged battery	Be sure battery snaps into the locking position when installed. Charge battery,
Pump runs but will not pump chemical	Check siphon tube pump supply	Remove chemical Rotate siphon tube screen filter and check for debris. Fill sprayer with water only when testing for correct operation
Pump cavitates	Check for debris and clogging	Remove all chemical, inspect siphon filter, ensure there are no leaks.
Trigger gun will not shut off	Inspect trigger gun spring assembly	Flush with WD40, Replace O ring seals in trigger assembly
Telescopic wand is leaking	Dry or Damaged Seals	Spray all fittings and O rings using WD40, move shafts back and forward to lubricate; tighten fittings. Replace O rings when necessary

PERSONAL SAFETY, OPERATION AND LIMITED WARRANTY INFORMATION

Personal safety

1. Use eye, face, breathing and ear protection as required. Always wear ANSI approved impact safety goggles, which must provide both frontal and side protection. Protect your hands with suitable gloves. Wear an ANSI approved dust mask or respirator. Wear ANSI approved earplugs.
2. Do not over reach; keep proper footing and balance at all times. Proper footing and balance enables better control of the applicator in unexpected situations. Applicator must remain upright during all operations.
3. Dress properly, wear protective equipment. Do not wear loose clothing or jewelry as they can be caught in moving parts. Tie back long hair. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working.
4. Stay alert, watch what you are doing and use your common sense. Do not operate any machine or tool when you are tired, under the influence of drugs, alcohol or medications.
5. Use clamps or other practical ways to secure and support the equipment when in use when required. Avoid **SERIOUS INJURY** or **PROPERTY DAMAGE** from discharge of spray material.
6. Do not allow spray to strike you and do not spray toward people or animals. Do not spray the tool itself on any electrical source.

Other Operation Details

1. Get familiar with your equipment applicator first by operating in a non contaminated environment; water only, this allows for basic understanding of operation and use of the various spray tips. Check for any leaks or malfunctioning parts in a water only environment.
2. Read and understand all chemical manufacturers label instructions before filling or using this equipment. Follow their regulations, some chemicals are restricted.
3. **DO NOT USE ANY FLAMMABLES OR BOILING LIQUIDS IN THIS SPRAYER** as it is not designed nor intended for such use.
4. **INSPECT** both inside and outside of the sprayer as a daily routine, clean as required to ensure all devices are functioning correctly.
5. Observe the Max Fill line located on Tank. **DO NOT FILL PAST THIS LINE.**
6. Store your applicator depressurized and in a safe place. Keep out of reach from children and pets.

Limited Warranty

1. **DURATION:** From the date of purchase by the original purchaser as follows: Manufacturer defects 3 months, no warranty on battery or seals.
2. **WHO GIVES THIS WARRANTY (WARRANTOR):** NPD (NPD Products Ltd.) 2325 Old Second South Midhurst, Ontario, Canada L9X 1P3 877-734-0932
3. **WHO RECEIVES THIS WARRANTY (PURCHASER):** The original purchaser (other than for purposes of resale) of the NPD product.
4. **WHAT PRODUCTS ARE COVERED BY THIS WARRANTY:** Any NPD product, accessory supplied or manufactured by Warrantor.
5. **WHAT IS COVERED UNDER THIS WARRANTY:** Substantial defects in material and workmanship which occur within the duration of the warranty period. Battery and seals excluded.
6. **WHAT IS NOT COVERED UNDER THIS WARRANTY:**
 - A. Implied warranties, including those of merchantability and FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED FROM THE DATE OF ORIGINAL PURCHASE AS STATED IN THE DURATION. Some States do not allow limitation on how long the implied warranty lasts, so the above limitation or exclusion may not apply to you.
 - B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE NPD PRODUCT. Some States do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
 - C. Any failure that results from an accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with product. Accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions shall also include the removal or alteration of any devices, if such safety devices are removed or altered, this warranty is VOID.
 - D. Normal adjustments which are explained in the owner's manual(s) provided with this product.

RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY:

Repair or replace at Warrantor's option, products or components which are defective, have malfunctioned and/or failed to conform within duration of the warranty period.

7. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:

- A. Provide dated proof of purchase and maintenance records.
- B. Deliver or ship the NPD products to the address above. Freight costs, if any, must be borne by the purchaser.
- C. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s)

8. WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:

- A. Repair or replacement will be scheduled and services according to the normal work flow at the servicing location, and depending on the availability of replacement parts. This Limited Warranty is applied only and gives you specific legal rights. You may also have other rights which vary from state to state or country to country.

IMPORTANT SAFETY PRECAUTIONS

WARNING! Read and understand all chemical manufacturers label instructions before using this equipment. Failure to follow all instructions may result in electric shock, fire and /or personal injury. Keep this information for the safety warnings and precautions, operating, inspection and maintenance instructions. When using this equipment, basic precautions should always be followed to reduce the risk of personal injury and/or damage to the equipment. Note that when this manual refers to a part number, it refers to the parts list included.

Spray Max PRO-100, PRO-400.

PLEASE MAINTAIN THIS DOCUMENT FOR YOUR RECORDS.

Picture and Contents List Sheet

Applicator Content List:

- Spray Max Pro Applicator (Tank) PRO-100, PRO-400.
- Fast Battery Charger
- 18v Rechargeable Battery
- Telescoping Extension Wand
- 1 - High Flow Tip set Pin/Cone, Fan Spray
- 1 - Low Flow Tip set Pin/Cone, Fan Spray (nickel plated nut)
- Screen Filter w/ Built-in Check Valve
- Trigger Gun with Hose



ATTENTION

Applicators are equipped with “**Soft Flow Technology**” which uses the **Low Flow Output Spray Tips only**. The Low Flow Tips are easily identified with the chrome 11/16 inch nuts.

Do not use Low Flow Spray Tips: 03, 8001 when using the High Flow Output setting of your sprayer.

Pump and circuit board damage will occur.

Applicators are sold in various configurations, check your picture sheet to see what accessories come with your model.



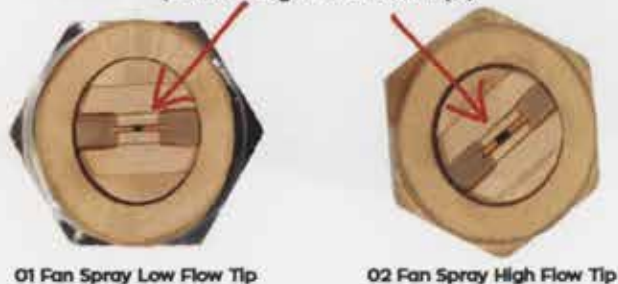
Low Flow Tip Set



High Flow Tip Set



Different Orifice Size & 11/16th Nut Color (Between High & Low Flow Tips)



01 Fan Spray Low Flow Tip

02 Fan Spray High Flow Tip