

chemical solutions to concrete problems

IDEAL FORM & CONCRETE SPRAYER

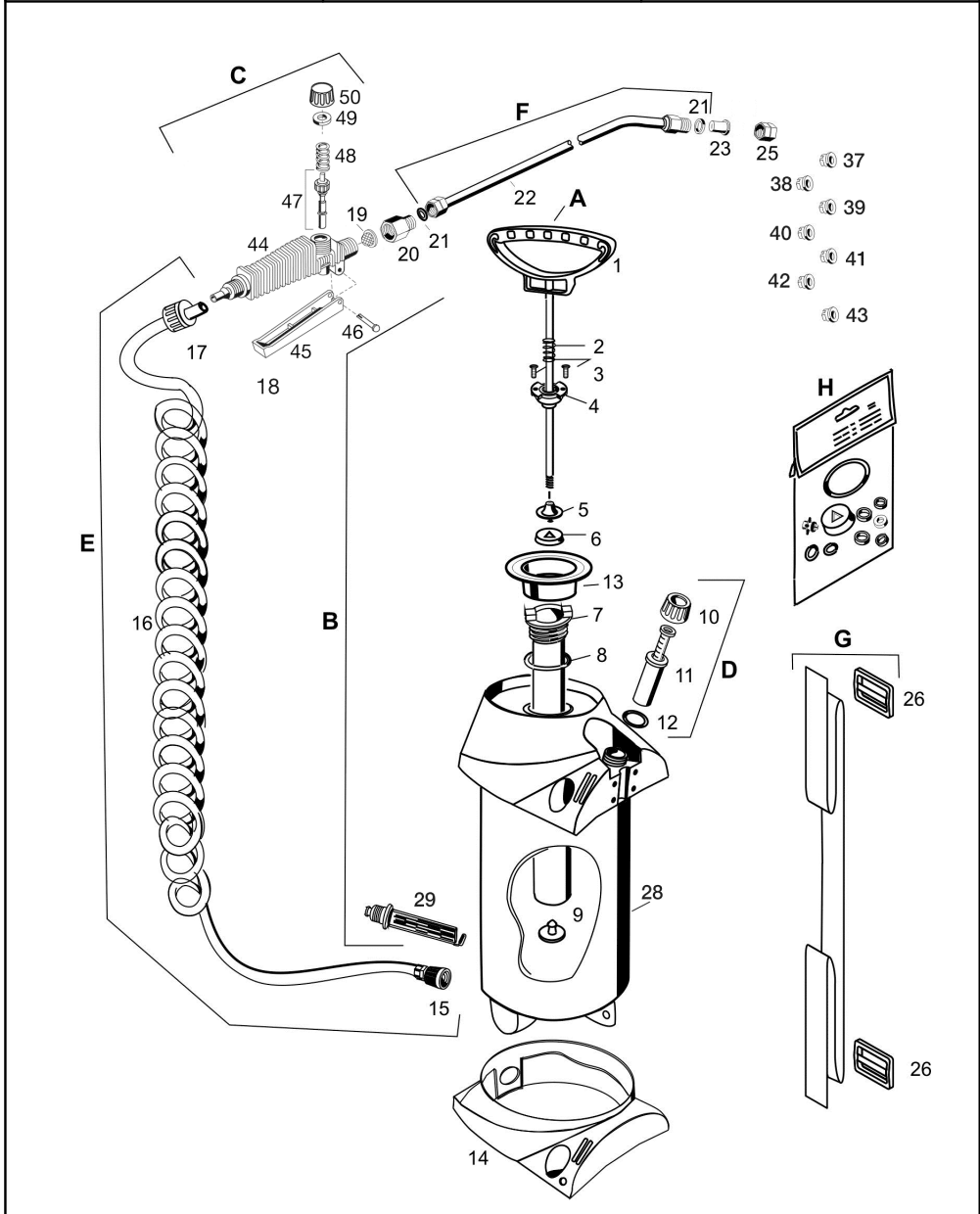
IFCS 3270 NC
IDEAL SPRAYER

2.7 GAL
(10 L)

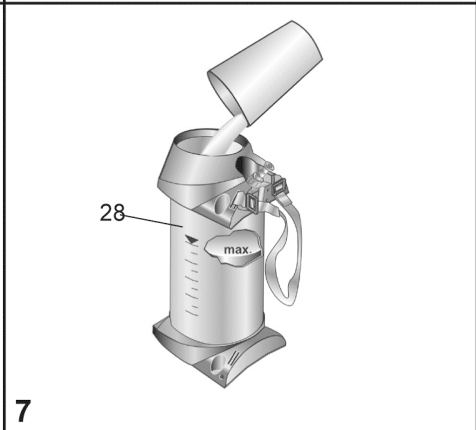
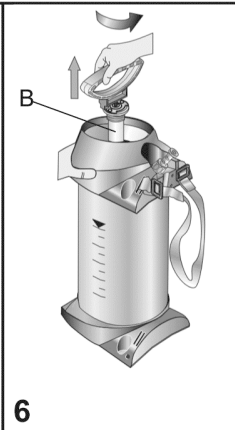
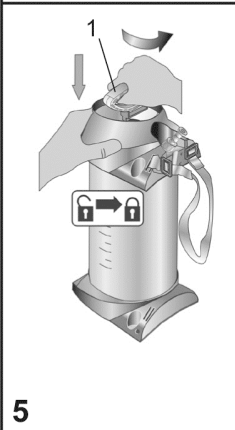
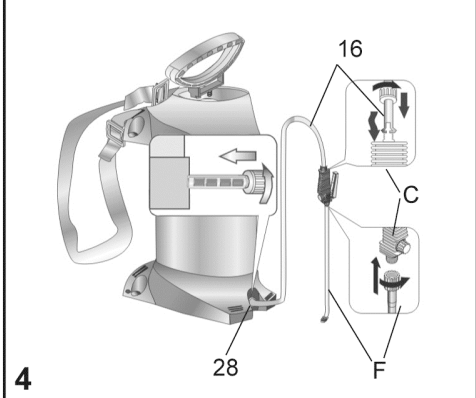
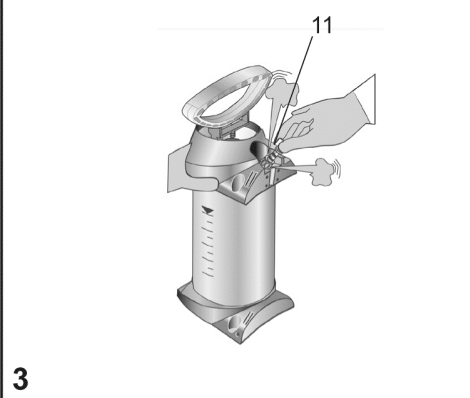
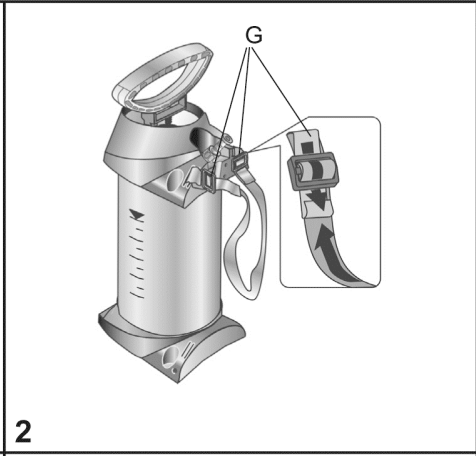
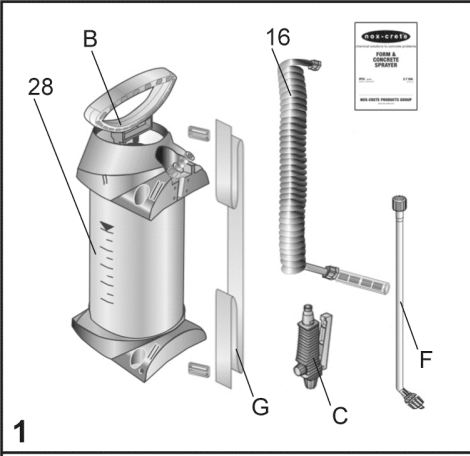
NOX-CRETE PRODUCTS GROUP

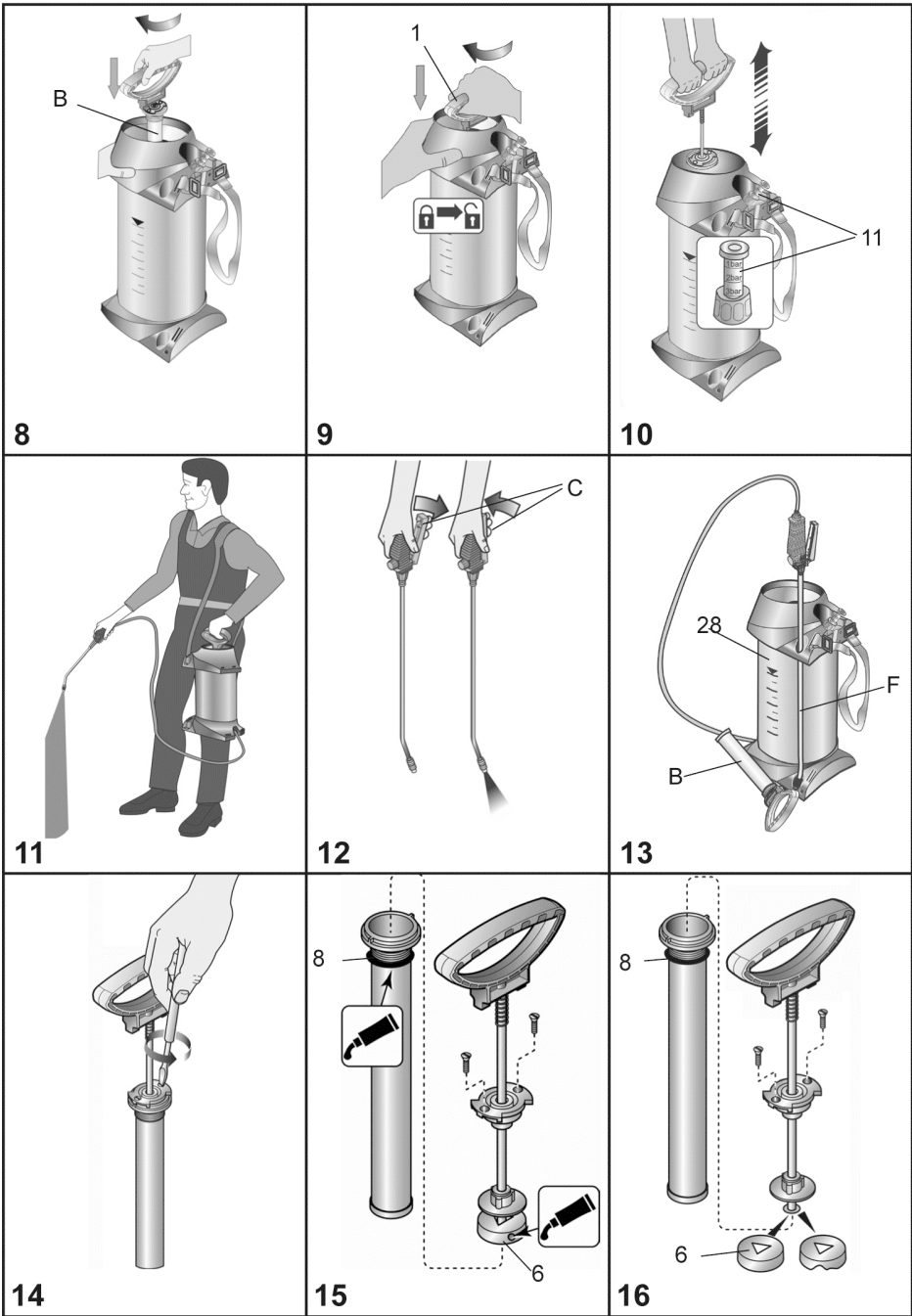
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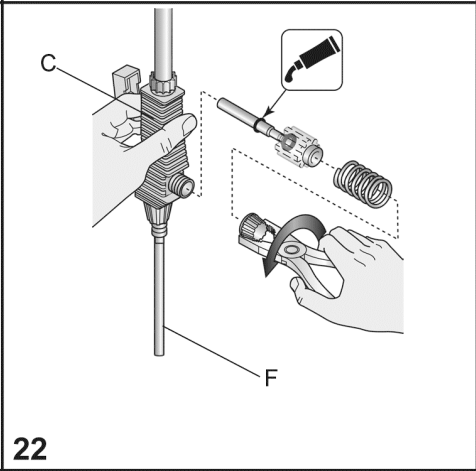
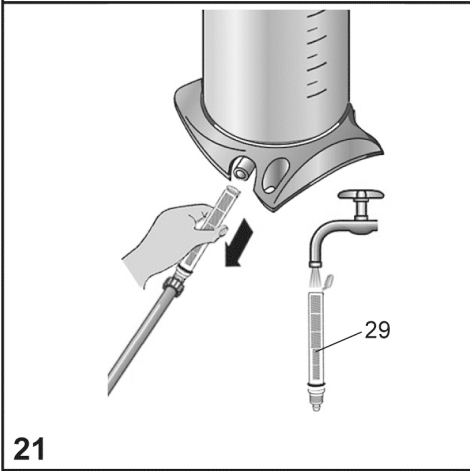
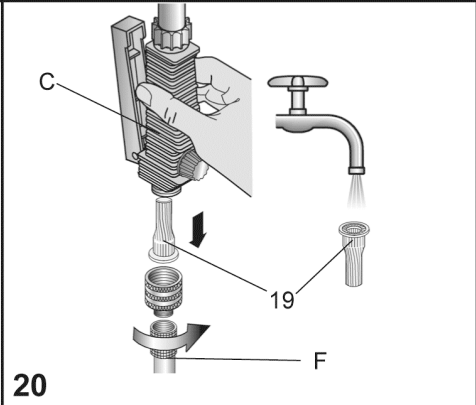
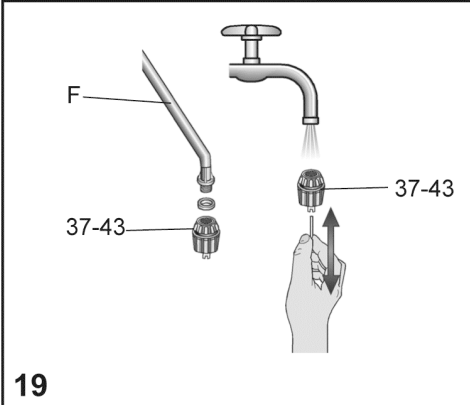
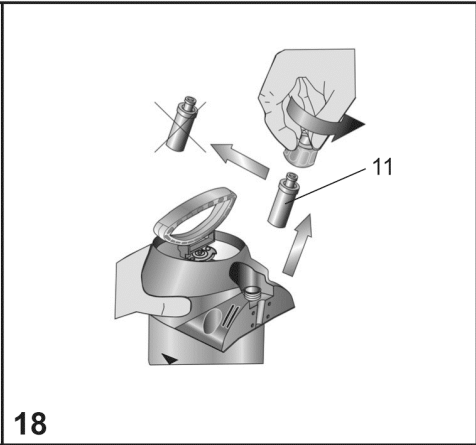
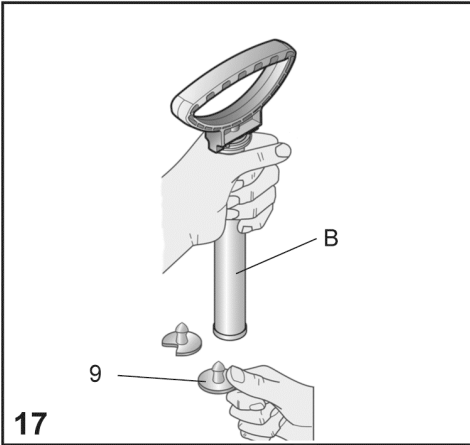
Spare Parts	Piezas de repuesto	Pièces de Rechange
	Ersatzteile	



Ref Part #		Ref Part #	
A	Piston rod assymlby	18	Service kit for trigger valve
B	Air pump	19	100 Mesh Filter
C	Trigger valve	20	Adapter
D	Pressure relief valve	21	Gasket
E	Spiral hose 2.5 m (PUR) with adapter	22	Spray wand
F	Spray wand	23	200 mesh anti-siphon filter
G	Carrying strap		
H	Service kit	25	Cap nut, brass
1	Piston rod with handle	26	Buckle
2	Bumper spring	28	Poly Spray Tank
3	Screw D3.5 x 16 mm	29	Discharge Strainer
4	Cylinder cap	37	80005 Spray Tip
5	Piston 38 mm	38	800067 Spray Tip
6	Piston cup washer 38 mm	39	8001LP Spray Tip
7	Cylinder tube with gasket and valve disk	40	8002LP Spray Tip
8	O-ring D47 x 5.33 mm	41	8003LP Spray Tip
9	Foot valve disk with stud	42	8004LP Spray Tip
10	Cap nut 3/4"	43	8005LP Spray Tip
11	Piston Pressure gauge 3 bar	44	Valve Body
12	O-ring D17 x 2,5 mm	45	Trigger
13	Funnel cover	46	Swivel Pin
14	Foot ring, black	47	Pressure bolt with o-ring
15	O-Ring and cap nut	48	Spring
16	Spiral hose 2.5 m (PUR)	49	Gasket D17 x D8 x 2.3 mm
17	Cap nut M12 x 1	50	Screw cap







Welcome and congratulations

Congratulations for purchasing your new IDEAL Form and Concrete Sprayer. Your satisfaction with NOX-CRETE products and services is very important for us. If you are not satisfied or have questions and concerns not covered in these instructions, please contact Nox-Crete at:

Nox-Crete Products Group

(800) 669-2738 | 1444 S 20th St. | Omaha, NE | 68108 | customerservice@nox-crete.com



Make certain to read the instructions before using this sprayer.
Keep the usage instructions in a safe place where they can be easily found.

Usage

This sprayer is designed for NOX-CRETE products and other construction chemicals that can be applied with a sprayer.

Read Nox-Crete's sprayer usage instructions before each application. This sprayer is designed only for use in exterior applications.



Improper use may result in personal injury.

Not suitable for

- Flammable liquids with a flashpoint below 100°F (38°C)
- Corrosive substances (acids and bases)
- Products containing acetone
- Extremely viscous liquids
- Products containing ammonia
- Use with food

Under no circumstances should you use

- With flammable liquids
- For storage of hazardous substances

Safety



Read sprayer instruction manual thoroughly prior to use.



Keep sprayer out of reach of children.



Never spray on people, animals, electrical devices and lines, into the wind, or into bodies of water.



Repairs and modifications to the sprayer tank can result in serious injury.

Do not bypass or disable the sprayer safety valve



Avoid ignition sources when spraying combustible liquids.



Do not allow the device to remain under pressure and/or exposed directly to sunlight for extended periods of time. Make certain the sprayer is not heated beyond the maximum operating temperature (*Table 1*).



Never blow through the spray tip or valves with your mouth.



Use only Nox-Crete replacement and accessory parts.




Wear suitable protective equipment when working with hazardous substances.



When hand pumping, always observe the pressure gauge to ensure the maximum spraying pressure is not exceeded (*Table 1 below*).

Before filling, after use and before maintenance work, allow the residual pressure in the tank to dissipate completely (*Section "After Use", Section 1*).

Scope of delivery

 You will find the illustrations referred to above on pages 3 – 5 of these instructions for use.

Technical data

Table 1


Device Name	IDEAL Form and Concrete Sprayer
Type	Pressurized Tank
Max. usable volume	2.7 gal (10.2 l)
Total contents	3.4 gal (12.9 l)
Max. spraying pressure	43.5 psi (3 bar)
Max. operating temperature	122 °F (54 °C)
Weight when empty	7.2 lb (3.3 kg)
Material of tank	Polyethylene
Where device is carried	Shoulder
Technical residual quantity	0.02 gal (0.07 l)

Assembly

1. Attach the carrying strap [G] to the tank. (*Fig. 2*)
2. Push the hose [16] into the tank [28] and secure it with the cap nut. (*Fig. 4*)
1. Push the hose [16] onto the trigger valve [C] and secure it with the cap nut. (*Fig. 4*)
2. Screw the spray wand [F] onto the trigger valve [C] (*Fig. 4*)

Checks

Visual inspection: Check that tank [28], pump [B], hose [16], trigger valve [C] and spray wand [F] with spray tip are undamaged. (*Fig. 1*)

 Pay special attention to the connections between the tank – hose and the hose – trigger valve and to the condition of the pump threading and spray wand.

No leaks: Pump up the empty device to approximately 30 PSI (2.1 Bar) (*Fig. 10*).
▶ The pressure must not decrease significantly within 30 minutes.

Function: Pull up the piston pressure gauge [11] (*Fig. 3*)
▶ The pressure must dissipate.
Activate the trigger valve [C] (*Fig. 12*)

- ▶ The trigger valve must open and close.

Sprayer preparations



Observe the instructions in the section entitled "Safety".

1. Pull up the red button on the piston pressure gauge [11] until all excess pressure is released from the tank (Fig. 3)
2. Press the piston rod with handle [1] down and turn it counterclockwise
 - ▶ The piston rod with handle [1] is locked. (Fig. 5)
3. Unscrew the pump [B] from the tank. (Fig. 6)
4. Pour the liquid to be sprayed into the tank [28] (Fig. 7)
5. Check the level with the scale on the tank. (Fig. 7)
6. Screw the pump [B] into the tank. (Fig. 8)
7. Press the piston rod with handle [1] down and turn it clockwise.
 - ▶ The piston rod with handle is unlocked. (Fig. 9)
8. Generate the desired pressure (→ Table 2) in the tank (Fig. 10).
 - 👉 *The maximum pressure should not exceed 43,5 psi (red line on the piston pressure gauge, Fig. 10). If the maximum pressure is exceeded, the safety valve will engage and release the excess pressure.*
9. Press the piston rod with handle [1] down and turn it counterclockwise (Fig. 5)
 - ▶ The piston rod with handle is locked.

Spraying



Observe the instructions in the section entitled "Safety".

Operate the device only while it is vertical or suspended upright and nearly vertical.

Avoid allowing drops of spray to drift onto areas that are not being treated.

Review the liquid manufacturer's health and safety warnings.

1. Carry the sprayer in your hand or over your shoulder. (Fig. 11)
 - 👉 *To prevent dripping, purge the sprayer by holding the spray wand in the air before spraying and open the discharge valve until no liquid mixed with air is released.*
 - ▶ Begin spraying.
 - ▶ Monitor piston pressure gauge [11] to stay within optimum pressure range. (Fig. 10)
2. If the spraying pressure decreases more than 7 PSI (.5 Bar) from the optimum level, pump some more.
 - 👉 *If liquid mixed with air emerges from the nozzle, the tank is empty.*

Table 2

Spray Tip Recommendation Guide

Products	Recommended Spray Tip
Cures and Sealers	8003LP, 8004LP or 8005LP
Water Repellant Sealers	8003LP, 8004LP or 8005LP
Form Release Agents	
Chembeton & Pro Release	8003LP
All other release agents	80005, 800067 or 8001LP
Liquid Floor Hardeners	8004LP or 8005LP
Tilt-Up Cures and Bondbreakers	8003LP, 8004LP or 8005LP

After Usage



Observe the instructions in the section entitled "Safety".

1. Pull up the red button on the piston pressure gauge [11] until all excess pressure is released from the tank (Fig. 3)
10. Lock the piston rod with handle [1]. (Fig. 5)
11. Unscrew the pump [B] from the tank. (Fig. 6)
12. Rinse the sprayer with water or the appropriate solvent.



Collect and dispose of the residual liquid according to all applicable laws, requirements and regulations. Review the liquid manufacturer's health, safety and disposal warnings.

13. Wipe off all solvent or water residue.
14. For drying and storing the device, keep the tank [28] and pump [B] separate in a dry place protected from sunlight and freezing temperatures (Fig. 13).

Care and maintenance



Observe the instructions in the section entitled "Safety".

After using the device 50 times or at least once a year:

- Unscrew the pump [B] from the tank. (Fig. 6)
- Dismantle the pump [B]. (Fig. 14)
- Grease the piston cup washer [6]. (Fig. 15)
- Assemble the pump.
- Lock the piston rod with handle [1] and screw the pump [B] into the tank [28].
- Clean the spray tip [37-43] with the appropriate cleaning solvent or water. If required use a needle. (Fig. 19)
- Remove the filter [19] between the trigger valve [C] and spray wand [22], and clean it with the appropriate cleaning solvent or water. (Fig. 20)
- Take the hose [16] with the discharge strainer [29] out of the tank and clean the discharge strainer. (Fig. 21)
- Grease the O-rings (Fig. 15 and 22)



Visually check the sprayer before each use for signs of leakage. Replace all worn parts. Replace the tank if any holes are observed.

Troubleshooting



Use only NOX-CRETE spare parts and accessories.

Fault	Cause	Remedy
No pressure builds up in the device	The pump is not screwed on tightly.	Screw the pump on tightly.
	O-ring [8] on the pump is faulty. (Fig. 15)	Replace the O-ring.
	Piston Cup washer [6] is defective. (Fig. 16)	Replace the piston cup washer.

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Fault	Cause	Remedy
Liquid flows out of the pump	Foot valve disc [9] dirty or defective. (Fig. 17)	Clean or replace the foot valve disc.
No tank pressure indication on the piston pressure gauge, Safety valves blow off too early.	Piston pressure gauge [11] is defective (Fig. 18)	Replace the piston pressure gauge.
The sprayer does not spray even though pressure is present	Filter [19] (Fig. 20) and/or 200 mesh anti-siphon filter [23] (Fig. 19) is clogged.	Clean both filters.
	Discharge strainer [29] blocked. (Fig. 21)	Clean discharge strainer.
The trigger valve does not close.	O-ring on the pressure bolt is not greased / lubricated. (Fig. 22)	Grease the O-ring of the pressure bolt.
Liquid emerges without the lever being activated.	Defective pressure bolt or O-ring. (Fig. 22)	Replace the pressure bolt, O-ring or trigger valve.

Contact address for additional information see *title page*.

Warranty

We guarantee that from the time it is first purchased for a period of the legally valid required warranty period (maximum 3 years) this sprayer will not exhibit any material or processing errors. If defects are discovered during the warranty period, Nox-Crete, Inc. or the distributor in your area will repair the device without charging for the labor or material or (at the discretion of Nox-Crete, Inc.) replace the device itself or its defective parts.

If such defects are discovered, please contact us immediately. We require a copy of the invoice or purchase receipt.

The warranty does not include wearing parts (seals, O-rings, diaphragm, etc.) or defects, which have occurred due to improper use or unforeseeable circumstances.

CE Declaration of Conformity

Products of series IDEAL (3270) meet the requirements of Pressure Equipment Directive 97/23/EC and bear the CE marking.