

SPRAY PUMP SPARE PARTS NAME LIST

Every part on a battery, manual, power and HTP sprayer — what it does, what it is called at the parts counter, and the sign that tells you it needs replacing. With a labelled diagram for each machine.

Battery sprayer

Manual & knapsack

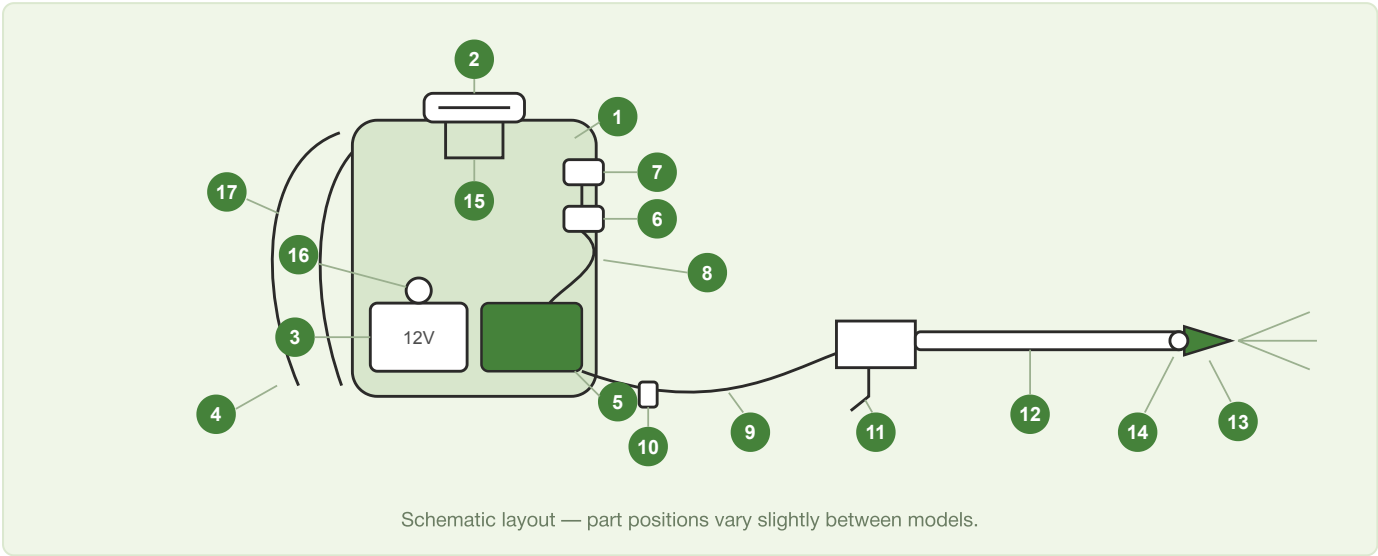
Power sprayer

HTP sprayer

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A battery sprayer is a tank, a 12V battery, a small motor pump and the spray line. Most faults trace back to the pump, the pressure switch or a worn nozzle — not the battery.

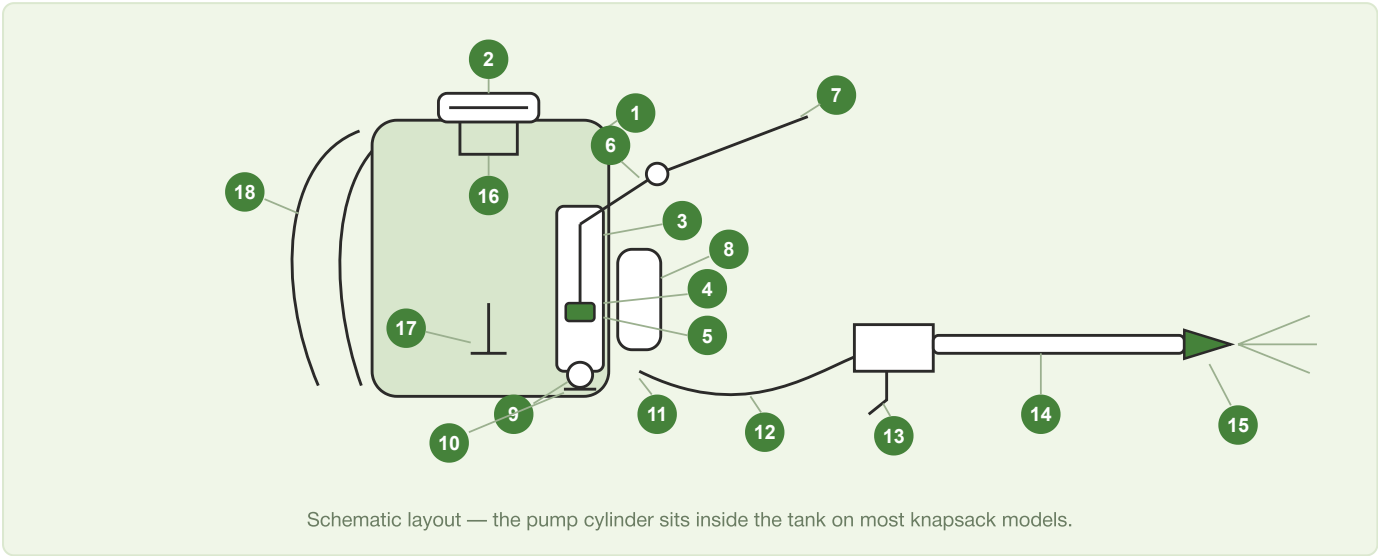


#	PART NAME	WHAT IT DOES	REPLACE WHEN
1	Tank (16L HDPE)	Holds the spray solution	Cracks, hairline leaks near the base
2	Tank lid with washer	Seals the tank opening	Liquid seeps out when you bend forward
3	12V battery	Powers the motor	Backup drops well below a full day of work
4	Battery charger	Recharges the battery	Charging light does not turn on or hold
5	Motor pump (single or double)	Builds spray pressure	Runs but pressure stays weak, or gets very hot
6	Pressure switch	Cuts the motor when the trigger closes	Motor keeps running with trigger released
7	On/off switch	Main power control	Loose, sparks, or does not hold position
8	Wiring harness	Connects battery, switch and motor	Burnt smell, exposed copper, melted insulation
9	Delivery hose pipe	Carries liquid to the lance	Cracks, hardening, leaks at bends
10	Hose clamp	Grips the hose at each joint	Rusted or unable to tighten
11	Trigger cut off valve	Starts and stops the spray	Drips after release, stiff trigger
12	Lance or spray rod	Extends your reach into the crop	Bent, leaking at the joint
13	Nozzle set	Shapes the spray pattern	Uneven pattern, wider droplets than before
14	Nozzle washer and O ring	Seals the nozzle to the lance	Dripping at the nozzle head
15	Tank strainer or filter	Stops dirt entering the pump	Torn mesh, or you find grit inside the tank
16	Suction filter	Protects the pump inlet	Pressure drops even with a full tank
17	Shoulder straps	Carry the load on your back	Fraying, broken buckle

MANUAL & KNAPSACK PARTS

LEVER OPERATED

On a lever sprayer the pressure comes from your arm, through a piston inside the pump cylinder. The piston washer is the single most replaced part on this machine.

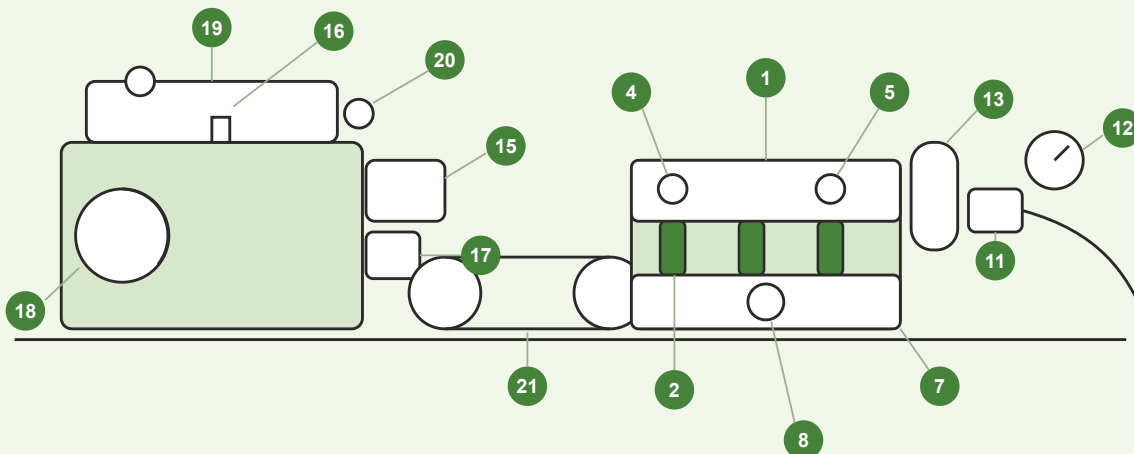


#	PART NAME	WHAT IT DOES	REPLACE WHEN
1	Tank	Holds the solution	Cracks or leaks at the seam
2	Tank lid and gasket	Seals the top	Spillage while walking
3	Pump cylinder	Houses the piston	Scored inside wall, pressure loss
4	Piston or plunger	Pushes liquid under pressure	Pumping feels loose and easy
5	Piston washer or cup seal	Creates the pressure seal	Most common failure part on this machine
6	Connecting rod	Links handle to piston	Bent or has play at the joints
7	Handle or lever	You pump with this	Cracked weld, loose pivot pin
8	PVC pressure chamber	Smooths pressure between strokes	Spray pulses instead of running steady
9	Non return valve ball	Stops backflow	Liquid pushes back into the tank
10	Valve seat	Seats the ball tightly	Ball no longer seals, weak pressure
11	O rings and gasket kit	Seal every joint	Leaks anywhere along the pump body
12	Delivery hose	Carries liquid to the lance	Cracks, splits at the clamp
13	Trigger cut off valve	Controls the spray	Continuous drip
14	Lance or extension rod	Reach into the crop	Bent, threads worn
15	Nozzle	Forms the spray pattern	Coarse droplets, uneven fan
16	Strainer	Filters the solution	Torn mesh
17	Agitator	Keeps the mix even	Broken paddle
18	Shoulder straps	Carry the tank	Fraying, broken hook

POWER SPRAYER PARTS

ENGINE DRIVEN · 3 PLUNGER

A power sprayer is two machines bolted together: a petrol engine and a three plunger pump, joined by a V belt. Diagnose the side that is actually failing before ordering parts.



Engine side on the left, pump side on the right, joined by the V belt.

Pump side parts

#	PART NAME	WHAT IT DOES	REPLACE WHEN
1	Pump head or body	Houses the pumping assembly	Cracks, persistent seepage
2	Plunger set (3 piston)	Creates the pressure	Scoring or scratches on the surface
3	Plunger seal and packing	Seals each plunger	Water dripping from under the pump head
4	Suction valve assembly	Draws liquid in	Pump struggles to prime
5	Delivery valve assembly	Pushes liquid out	Pressure gauge swings up and down
6	Valve spring	Returns the valve	Weak or broken spring, unstable pressure
7	Crankcase	Holds the drive assembly	Oil leaks, cracked casing
8	Crankshaft	Converts rotation to stroke	Play or knocking noise
9	Connecting rod	Drives the plungers	Noise under load
10	Oil seal	Keeps pump oil in	Oil on the outside of the crankcase
11	Pressure regulator or unloader	Sets your working pressure	Pressure cannot be adjusted
12	Pressure gauge	Shows the pressure	Needle stuck or reads zero under load
13	Air chamber	Steadies the flow	Spray pulses badly
14	Gasket kit	Seals every joint	Any joint that seeps after tightening

Numbers continue from the diagram on the previous page. Work out which side has failed before you order anything — an engine that will not hold speed is not a pump problem.

Engine side parts

#	PART NAME	WHAT IT DOES	REPLACE WHEN
15	Air filter	Keeps dust out of the engine	Visibly clogged, engine loses power
16	Spark plug	Ignites the fuel	Hard starting, black or oily tip
17	Carburettor	Mixes air and fuel	Rough idle, will not hold speed
18	Recoil starter	Starts the engine	Rope frayed, spring will not return
19	Fuel tank and cap	Holds petrol	Cracks, leaking cap seal
20	Fuel filter	Cleans the fuel	Fuel starvation under load
21	V belt and pulley	Transfers engine power to pump	Slipping, glazing, cracks

Hose and spray parts: suction hose with strainer, high pressure delivery hose, hose clamps, spray gun, brass lance, nozzle set and nozzle washers. On long hose runs, check the clamps at both ends first when pressure drops — it is a faster fix than opening the pump.

Which side has failed? If the engine runs steadily but pressure is weak or the gauge swings, the fault is in the pump — plunger packing first, then the valves. If pressure is fine until the engine bogs down or will not hold speed, start with the air filter, spark plug and fuel filter. A slipping V belt mimics a pump fault: check it before opening anything.

Symptom → the part to check first

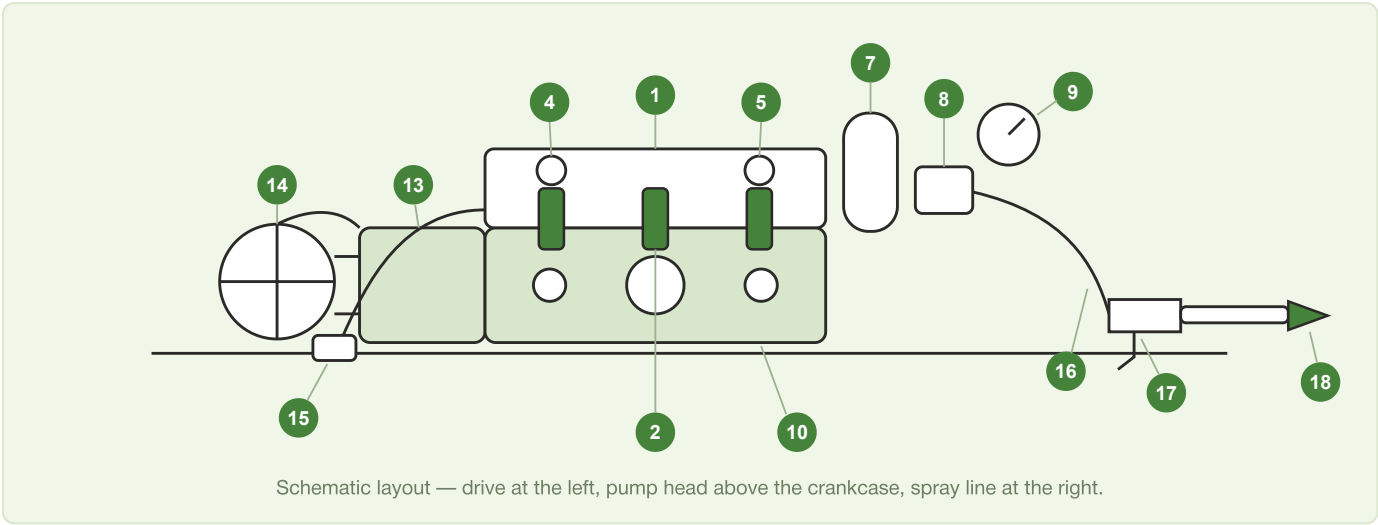
Works across all four machine types. Check the part on the right before stripping anything down.

WHAT YOU NOTICE	CHECK THIS FIRST
Pressure is weak even with a full tank	Suction filter and tank strainer, before the pump
Motor keeps running after you release the trigger	Pressure switch (battery sprayer)
It drips after you let go of the trigger	Trigger cut off valve
Pumping suddenly feels loose and easy	Piston washer or cup seal (manual sprayer)
Spray pulses instead of running steady	Pressure chamber on a manual, air chamber on power and HTP
Water weeping out below the pump head	Plunger packing — the usual fault on power and HTP pumps
Pump will not prime, or primes slowly	Suction valve; on HTP also the foot valve strainer
Pressure gauge needle swings up and down	Delivery valve assembly and valve spring
Fan is uneven, droplets look coarser than before	Nozzle set and nozzle washers
Engine bogs down or will not hold speed	Air filter, then fuel filter, then carburettor
Oil showing on the outside of the crankcase	Oil seal
Pressure cannot be adjusted at all	Pressure regulator or unloader

HTP SPRAYER PARTS

HORIZONTAL TRIPLEX PLUNGER

HTP stands for horizontal triplex plunger — the high pressure pumps used for orchards, cotton and any tall crop where the spray must reach the top canopy. Driven by an electric motor, an engine or a tractor PTO. Common sizes are 22 and 30.



#	PART NAME	WHAT IT DOES	REPLACE WHEN
1	HTP pump head	Main pumping body	Cracks, seepage that tightening will not stop
2	Ceramic plunger set	Builds high pressure	Chipped, scored or dull surface
3	Plunger packing or seal	Seals each plunger	Water weeping below the head — the classic HTP fault
4	Suction valve	Draws solution in	Slow or failed priming
5	Delivery valve	Sends solution out	Pressure fluctuation
6	Valve seat and spring	Seats and returns the valve	Pitted seat, weak spring
7	Air chamber or pressure vessel	Absorbs pressure shock	Heavy pulsing at the gun
8	Pressure regulator	Sets the working pressure	Pressure will not hold steady
9	Pressure gauge	Displays pressure	Needle stuck or damaged glass
10	Crankcase and crankshaft	Drive assembly	Knocking, excess play
11	Bearing set	Supports the crankshaft	Noise, heat, roughness when turned by hand
12	Oil seal	Retains crankcase oil	Oil traces outside the case
13	Gear box	Steps down the drive speed	Noise, oil leak
14	V belt and pulley	Power transfer	Slipping, cracked belt
15	Suction pipe with foot valve	Draws from tank or drum	Loses prime, torn strainer
16	High pressure delivery hose	Carries the spray	Bulges, cracks, leaking at the ferrule
17	Spray gun and brass lance	Directs the spray	Leaks at the trigger, worn threads
18	Nozzle set	Shapes the pattern	Coarse droplets, poor top canopy reach

Across every sprayer type, the same short list accounts for most breakdowns. Stock these before spraying starts, not after the machine stops.

1 Nozzle set and nozzle washers

2 Piston washer or cup seal on manual sprayers

3 Plunger packing on power and HTP pumps

4 O rings and the full gasket kit

5 Delivery hose and hose clamps

6 Trigger cut off valve

7 Strainer and suction filter

8 Battery and charger on battery sprayers

9 Air filter and spark plug on engine driven sprayers

Nozzles wear invisibly. The orifice widens slowly with use and the sprayer keeps working, so nothing looks wrong — but a worn nozzle puts out more liquid than it should, over the same area. Check your nozzles against a new one at the start of every season.

How to order the right part

1. Identify the machine category: battery, manual, power or HTP sprayer.
2. Find the exact model number on the machine plate — parts are not interchangeable across all models in a category.
3. Use the part name from this list, and the number beside it on the diagram.
4. Confirm fitment for your model before ordering, especially for pumps, plungers and valve assemblies.

NEED HELP IDENTIFYING A PART?

Send us your machine model and what it is doing wrong. Our team will tell you which part you need and where to get it, whether you bought from us or not.

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