

Operator's Handbook

Multisprayer Unit
MODEL STU08H54
MODEL STU10H54



ASK YOUR DEALER ABOUT THE FULL RAPIDSpray RANGE AND OUR 48 PAGE CATALOGUE

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RSP0008 OH

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READ YOUR OPERATOR'S HANDBOOK CAREFULLY BEFORE MOUNTING AND USING YOUR SPRAYER. KEEP YOUR HANDBOOK IN A SAFE PLACE.

Introduction

Congratulations on your purchase of a Rapid Spray Motorised Multi Spray Unit, which is complete and ready for use. The unit is ideally suited to farmers or spray contractors for weed spraying, fence line spraying, spraying of drainage channels and around buildings etc.

Warnings

- ! **1.** When mounting to any vehicle ensure that you have read the Vehicle Owner's Manual and that you comply with all the weight restrictions as specified by the vehicle manufacturer, as overloading can cause injury or death. Remember that 1 litre of water weighs 1 kilogram.
- ! **2.** To ensure your own safety and that of your employees if applicable you must comply with all relevant environmental, work place health and safety legislation and codes of practice.
- ! **3.** Select and wear appropriate Personal protection Equipment in accordance with the label of the product you intend using and your own safe work practices.
- ! **4.** Care should be taken when spraying in windy conditions as spray drift may contaminate the air and may affect the operator or damage adjacent non-target vegetation.
- ! **5.** Once the spraying operation has been completed, decontaminate the spray tank and spray accessories. Dispose of tank rinsings in compliance with current environmental, work place health and safety regulations.
- ! **6.** Personal Protection Equipment must still be worn while decontaminating your sprayer as per warning at 3 above.
- ! **7.** Improper or careless use of this sprayer can cause serious injury. Minors should never be allowed to use this sprayer. This sprayer should not be used when bystanders or animals are in the area. This sprayer should never be used while children are in the area.
- ! **8.** Never leave the sprayer unattended without turning off the engine and relieving the line pressure, and flushing the sprayer of any harmful chemicals.
- ! **9.** You must be in good mental health to operate this sprayer and not be under the influence of alcohol or any drugs that could impair your vision, physical strength, dexterity, judgment, or other mental capacity

PRODUCT INFORMATION RISK ASSESSMENT SHEET MULTI SPRAYERS

Task	Hazards	Risk	Control Measures
1. Partially fill the tank with water, start the motor & test the spray unit	Manual handling; slips, trips or falls; petrol; fumes; fingers jammed	med	Concentrate on task; follow safe manual handling techniques:- don't lift on your own if > 20kg, bend knees & keep back straight; keep fingers clear; keep unit at least 8m away from overhead powerlines; fire extinguisher nearby; follow warning stickers on tanks; wear PPE for petrol & fumes-mask & gloves.
2. Check weather conditions & select the appropriate PPE to suit the chemicals to be used	Manual handling; slips, trips or falls	Low	Put on PPE as per the chemical requirements in the Material Safety Data Sheet-coveralls, gloves, safety footwear, glasses & respirator; follow safe manual handling techniques:-don't lift on your own if >20kg, bend knees & keep back straight.
3. Mix chemicals (if applicable) & fill spray tank	As above; spray drift, chemical spillage, emission of vapors or flammability; weather; untrained visitors	Med	As above; user trained in the state's chemical mixing & administration course eg Chem. Cert; follow the relevant Environment Protection Authority requirements; fire extinguisher present; keep visitors away from the job unless wearing full PPE.
4. Use spray unit	As above; loss of load; heat & cold; noise; exceed load limit of vehicle; hose entanglement; exhaust fumes; terrain & slopes; run over by unit	High	As above; wear clothes to suit heat & cold; wear hearing protection if noise > 85 dBa; follow the manufacturer's safe operation instruction for the vehicle and the spray unit; don't overload - water weighs 1kg for every 1 litre; secure load to vehicle; keep hose tidy; put unit brakes on.
5. Clean up, maintenance & storage	As above	Low	As above; continue to wear PPE for clean up: store unit in a dry, well ventilated area.

Operating Instructions

Before Use

1. Check all hoses, connections and hose clamps to ensure that the unit has been delivered to you without transportation loss or damage.
2. Before attempting any spraying with your new unit, operate it with water only to familiarize yourself with its features and capabilities and to ensure that your sprayer has arrived in a safe working condition. Please contact your dealer immediately should anything appear to have been damaged.
3. Load the Multi Spray unit onto the back of a vehicle and fasten the unit securely to the vehicle by strapping or bolting it down. Ensure that the straps do not interfere with any hoses or connections. Do not place the straps over the pump or engine. Keep hoses and straps away from hot engine, exhaust and exhaust fumes.
4. Prepare the engine for use as per the engine manual supplies with your sprayer. Ensure that the correct quantity and type of oil is used when filling the engine.
5. Before spraying, check that the filter screen is clear and free from foreign particles and chemical residues. This can be done when the tank is full or empty. Unscrew the black filter retaining ring and remove filter and clean as necessary. A clean filter will maintain pump performance and extend pump life.

Start Up Procedure

Prepare the engine for start up as per the engine manual and pump manual.

Add the spray solution to the tank (See "Mixing and Filling").

Ensure that the pressure regulator lever is in the 'BY PASS' position and the pressure adjusting knob is screwed out (anti-clockwise). Failure to do so will invalidate pump warranty.

Start the engine and allow it to warm up. Run the pump with the regulator lever in the BY PASS position in order to discharge entrapped air from the system for at least two minutes before changing the regulator to the PRESSURE position.

To set the correct spraying pressure, open the flow through the hand gun (discharge solution back to tank) and turn the pressure regulator knob in a clockwise direction until the required pressure is achieved. Spray nozzle pressure will vary according to hose length, nozzle size, etc. When the hand gun is released the increased pressure in the system will be automatically adjusted by the pressure regulator valve and excess flow will be returned to the spray tank.



Mixing and Filling

Sites for mixing and filling the sprayer should be carefully chosen to be away from any risk of spillages draining into water courses or into environmentally sensitive areas. Children and animals must always be kept away from mixing and filling operations.

The following steps are given as a guide for mixing and filling the sprayer.

- Read the product label and follow the instructions carefully, taking special note with regard to the order in which the products are added to the tank.
- Measure out the correct quantities of pesticides, using clean measuring jugs used only for this purpose.
- Rinse out the measuring vessel and empty containers. Pour all rinsings into the spraying tank, and top up the tank with water to the required level. Ensure thorough by stirring with a suitable round edged paddle or start the pump with the pressure regulator lever in the BY PASS position.
- Wash off any spillage from the outside of the tank. Return part empty containers to a place of safety. Empty containers must be correctly rinsed and collected for safe disposal in compliance with current environmental legislation and codes of practice.

Calibration

Accurate calibration is an essential element of any spraying function as it ensures that the pesticide is applied at the rate on the product label. Application in excess of the recommended rate is prohibited, can damage crops and is uneconomical.

Calibration must always be carried out:

- When spraying for the first time with new spray equipment
- At the beginning of each season
- After changes of nozzle tips, spraying pressure or speed
- After every 100 hectares of spraying

When calibrating a sprayer, a minimum of coverall, gloves and boots must be worn. A face shield and PVC apron may be included depending on the task and the cleanliness of the sprayer.

Spraying

The following steps are given as a guide for spraying with your Multi Spray unit.

- Before commencing spraying, plan the work effectively to reduce potential contamination to a minimum.
- Wind Direction and speed must be taken into account when spraying.
- Do not spray if the operator, bystanders, watercourses or any not targeted vegetation appears to be in danger from spray drift contamination.
- Drift can be reduced by lower nozzle height, lower pressures or by fitting larger nozzles.
- To commence spraying, squeeze trigger. Release the trigger to stop the spray – the regulator will automatically allow spray solution to bypass through the return line and back to the tank.
- Spray at a constant speed (as used during calibration) and shut off the hand lance trigger at the end of each swath or before changing direction.

Work in parallel lines at the correct spacing when spraying large area – this is better than moving the hand lance from side to side in a swinging movement which causes damage by overdosing

Decontamination and Maintenance

After use, the sprayer must be thoroughly decontaminated, inside and outside – including pump, hoses, boom and hand lance – to avoid damage to crops from harmful spray residues. Decontamination prevents sprayer corrosion and abrasion. As a guide follow the decontamination procedure below.

- After spraying, rinse out the tank with several changes of water plus a recommended cleaning fluid, brushing the inside of the tank.
- The suction filter mounted on the sprayer frame must be cleaned regularly. Unscrew the filter cover and remove the filter screen and gasket. Soak in clean water, brushing with a nozzle brush. Ensure gasket is in position when re-assembling.
- Ensure that the filter basket strainer is free from chemical residue or debris.
- Nozzles, nozzle filters, nozzle caps and gaskets should be cleaned by soaking in water, brushing with a nozzle brush and allowed to dry. Never blow through the nozzles with your mouth nor use wire or pins to clear any blockages.

When storing the unit ensure that it is clean and dry and store in a well ventilated area.

Accessories

Quick Fill Unit

Bertolini diaphragm pumps are not designed for sucking water directly out of dams or rivers. The quick fill unit is a quick, environmentally safe way of sucking up water to fill the spray tank.

The hydro injector makes use of a venturi system inside the tanks which provides a strong suction to draw up water through the floating filter to a height of 2 metres. A shut off valve prevents any backflow from the injector.

When using the quick fill unit, ensure that there is sufficient liquid remaining in the tank to allow the pump to operate the venturi. Remove the blanking cap and connect the suction hose to the injector. Drop the filter into a water source and run the pump with only the tap to the injector in the ON position. This will allow a quantity of air to be sucked into the tank causing aeration.

Hydraulic Agitator

A hydraulic agitator can be fitted near the base of most tanks which is useful for keeping the contents of the tank well mixed. A separate tap at the regulator is needed to allow the agitator to be switched on and off as required.

Calibration Procedures

The following table gives a step-by-step guidance on the standard method of sprayer calibration

BOOM SPRAYERS HYDRAULIC NOZZLES		EXAMPLE
Read the LABEL	Spray VOLUME Product Dose Spray QUALITY	200 Litres / hectare 50 Litres / hectare Medium
Measure TIME per 100 Metres	Measure time in seconds over land similar to that to be sprayed	41.9 seconds
Calculate SPEED	SPEED = 360 divided by TIME km/h seconds	360/41.9 = 8.6km/h
Measure nozzle SPACING	Normally .5 metres (50cm)	.5 metre
Measure TIME per 100 Metres	OUTPUT = VOLUME X SPEED X SPACE / 600 litres/min litres/hectare km/h metre	200 X 8.6 X 0.5 / 600
Select NOZZLE	Refer to nozzle manufactures data charts or other sources and select the size and type of nozzle that will produce the calculated OUTPUT and required spray QUALITY	41.9 seconds

Now, check the calibration on the sprayer

Check Nozzle OUTPUT	With water, check outputs of 4 or more nozzles using a calibrated jug or flow meter. Check all nozzles are aligned correctly and spray patterns	Average output = 41.9 litres/minute
Calibrate SPRAYER	SPEED = 360 divided by TIME km/h seconds	1.4 x 600 / 0.5 / 8.6

As the nozzle output and therefore the spray volume are less than target figures, increase the pressure to, say 2.5 bar and repeat the calibration to achieve 200 litres / hectare

Now, record the details as calculated

Nozzle fitted	11004 - RED
Spray Volume	200 litres/hectare
Spray Pressure	2.5 bar
Spray Quality	Medium
Forward Speed	8.6 km/h

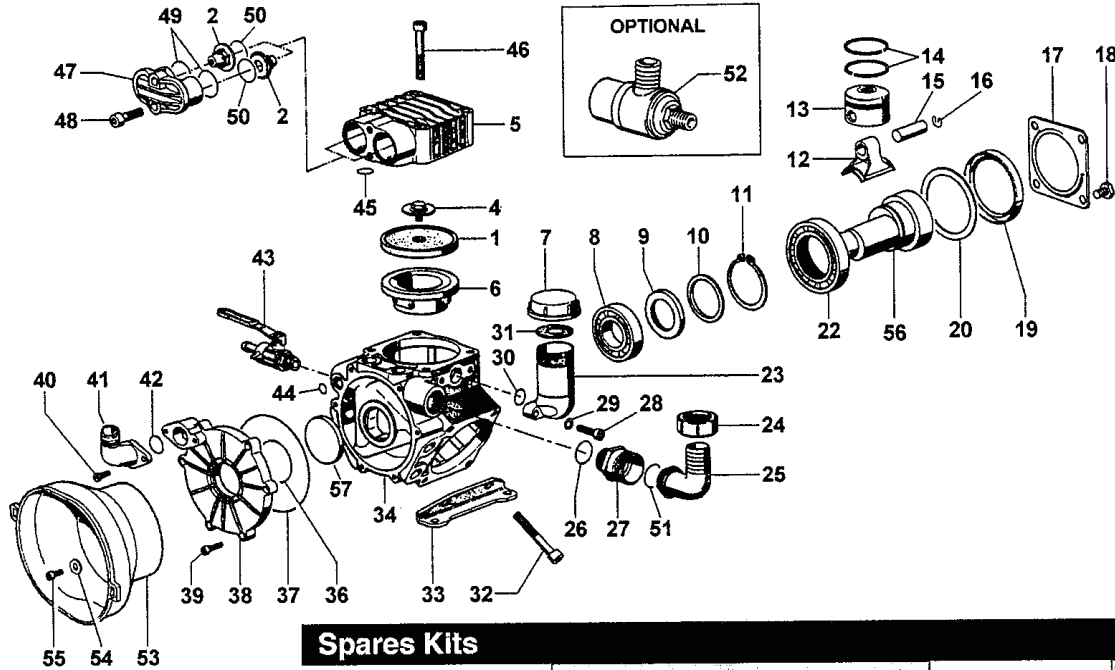
All Field Spray Units

Item		Code	Description
1,2,5	a	STA40	Φ455mm Lid Assy Complete for 800l & 1000l Tanks
	b	STA42	Φ255mm Lid Assy Complete for 400l & 600l Tanks
3	a	STA41	Φ455MM Basket Filter for 800l & 1,000l Tanks
	b	STA44	Φ255mm Basket Filter for 400l & 600l Tanks
4			6 - #10ga x 25 SS Screw
6	a	ST0400LP	400l Low Profile Spray Tank
	b	ST0600LP	600l Low Profile Spray Tank
	c	ST0800LP	800l Low Profile Spray Tank
	d	ST1000LP	1,000 Low Profile Spray Tank
7	a	AR1132320	90° Elbow ¾ BSP to 25mm Hose Tail for STU H75 only
8	a	STAHS19	19mm Suction Hose - Return Line
	b	STAHS25	25mm Suction Hose - Return Line for STU H75 only
9		STA80	Galvanised Mounting Pins (4 in kit)
10	a	STUSK0406	Steel Skid only for 400 & 600l
	b	STUSK0810	Steel Skid only for 800 & 1,000l
22		STAR030	30 Metre Hose, Reel and Frame
23		STAH10	30m x 10mm Spray Hose
24		STAL15	Hose Swivel Connector (Max pressure 50 bar)
25		STAL16	Heavy Duty Spray Gun - see page 17 for parts breakdown

STU H54 Models Only - 54 Litre/min Pump

Item		Code	Description
11		STA32	1 ½" MBSP Poly Tank Fitting with Gasket
12		STAHS32	32mm Suction Hose
13		STAB032	1 ½" Suction Filter Complete
14			6.5HP Honda Motor GX200
15		PA530	Bertolini Pump & Gearbox 54l/min, 40bAR, - pa530 - See diagram
16	i)	BE 80.3219.00.2	O'Ring 3.0 x 25mm
	ii)	BE 84.0565.00.2	Elbow Connector 32mm
	iii)	BE 82.0067.50.2	Nut 1 ¼"
17		STAHS32	32mm Suction Hose
18	i)	AR116633	1 ½" x 32mm Elbow
	ii)	ARG10061	1 ½" O'Ring
	iii)	AR2002060	1 ½" Fly Nut
19		AIBFP30606	¾" MBSP x 10mm Hose Barb - Brass
20		STAH10	10mm Spray Hose
21		STAP80	Sting 3 Way Regulator 90l/m - see parts breakdown diagram
26	i)	AR106633	1 ½" x 25mm Straight
	ii)	ARG10061	1 ½" O'Ring
	iii)	AR2002060	1 ½" Fly Nut

Spare Parts List (PA530 - STAP39) - 54 Litre/min

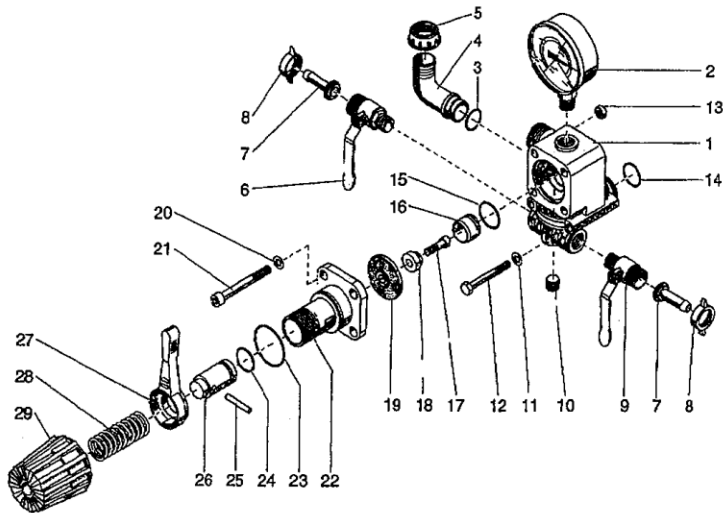


Spares Kits

Rapid Spray Part No.	STAP116	STAP117	STAP118
Kit Part No.	23.9880.97.3	23.9829.97.3	23.9828.97.3
Kit Description	Pump Seals Kit	Valves Assy	BUNA-N Diaphragms
Position No.	35 19 44 45 49 50 36 37	2 50 49	1 45
Quantity Incl.	1 1 1 6 6 6 1 1	6 6 6	3 6

Pos.	Part No.	Qty	Description	Pos.	Part No.	Qty	Description
1	23.0011.31.2	3	Piston Diaphragm	28	86.2730.00.2	2	Screw M8 x 30 UNI5931
1	23.0011.33.2	3	Viton Piston Diaphragm	29	84.3685.00.2	2	Washer Dia. 8.4 x 15 x 1.5
1	23.0011.36.2	3	HPS Piston Diaphragm	30	80.3180.00.2	1	O-Ring 2.62 x 15.08
1	23.0011.00.2	3	Desmopan Piston Diaphragm	31	82.4120.00.2	1	Gasket Dia. 45 x 19 x 1.5
2	23.9805.97.3	6	Valve Assy	32	86.3562.00.2	4	Screw M10 x 70 UNI5931
4	23.0043.98.3	3	Kit Diaphragm Washer / Screw AISI 316	33	23.0018.61.2	2	Mounting Brackets
5	23.0002.09.2	3	Head	34	23.0001.09.2	1	Crankcase
6	23.0020.01.2	3	Piston Sleeve D.55	36	80.3209.80.2	1	O-Ring 2.62 x 50.47
7	85.2750.00.2	1	Oil Filler Cap	37	80.3210.68.2	1	O-Ring 2.62 x 120.32
8	81.2846.00.2	1	Ball Bearing Dia. 35 x 72 x 17	38	23.0046.09.2	1	Crankcase Cover
9	23.0019.76.2	1	Ring	39	86.2216.00.2	6	Screw M6 x 25 UNI5931
10	26.0047.76.2	1	Ring	40	86.2168.00.2	2	Screw M6 x 22 UNI5931
11	80.1377.00.2	1	Ring Dia. 55 ("VM" - "VC")	41	31.1003.09.2	1	90° Elbow G.1/2 Fitting
12	23.0005.09.2	3	Light Alloy Conrod	42	80.3218.00.2	1	O-Ring 3.0 x 22
12	23.0045.11.2	3	Bronze Conrod	43	84.5544.10.2	1	Left Tap G.3/8 - F.1/2
13	23.0007.09.2	3	Piston D. 55	44	80.3176.00.2	1	O-Ring 2.62 x 11.91
14	81.8504.50.2	6	Piston Ring	45	80.3189.00.2	6	O-Ring 2.62 x 18.72
15	85.2006.70.2	3	Piston Pin Dia. 15	46	86.3560.00.2	8	Screw M10 x 65 UNI5931
16	80.0021.00.2	6	Ring Dia. 15	47	23.0003.09.2	3	Valve Cover
17	17.0013.61.2	1	Cover	48	86.3300.00.2	6	Screw M10 x 30 UNI5931
18	86.3185.00.2	4	Screw M10 x 16 UNI5739	49	80.3219.20.2	6	O-Ring 3.0 x 35
19	80.2264.10.2	1	Oil Seal Dia. 68 x 90 x 10	50	80.3207.00.2	6	O-Ring 2.62 x 29.82
20	17.0024.76.2	1	Spacer	51	80.3219.00.2	1	O-Ring 3.0 x 25
22	81.2972.00.2	1	Ball Bearing Dia. 55 x 90 x 18 ("VM" - "VD")	52	24.3040.97.3	1	Safety Valve 40 Bar (Optional)
23	23.0008.32.2	1	Oil Filler	53	31.1467.32.2	1	Safety Cone (Optional)
24	82.0067.50.2	1	Wing Nut G.1"1/4	54	84.3618.00.2	3	Washer Dia. 6.4 x 18 x 1.5 (Optional)
25	84.0560.00.2	1	90° Elbow Connector Dia. 30	55	86.2086.00.2	3	Screw M6 x 14 UNI5931 (Optional)
25	84.0565.00.2	1	90° Elbow Connector Dia. 32 (Optional)	56	23.0028.26.2	1	Crankshaft Version "VF"
26	80.3207.00.2	1	O-Ring 2.62 x 29.82	57	80.2099.50.2	1	Cover "VF"
27	83.5089.00.2	1	Nipples G.1" - G.1"1/4				

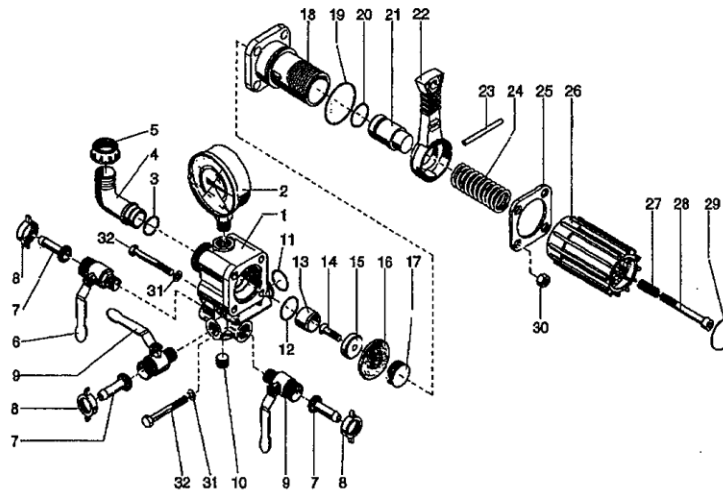
Spare Parts List KARIN STAP77 (15 Bar) + STAP78 (40 Bar)



Spares Kits	
Rapid Spray Part No.	STAP133
Kit Part No.	25.9963.97.3
Kit Description	Karin Kit
Position No.	3 14 15 16 18 19 23 24
Quantity Incl.	1 1 1 1 1 1 1 1

Pos.	Part No.	Qty	Description
1	24.0310.32.2	1	Valve Housing
2	83.0080.00.2	1	Pressure Gauge 0-100 Bar
2	83.0010.00.2	1	Pressure Gauge 0-24 Bar
3	80.3060.00.2	1	O-Ring 1.78 x 12.42
4	84.0521.00.2	1	90° Elbow Connector Dia. 20
5	82.0042.10.2	1	Wing Nut G.3/4
6	84.5544.10.2	1	Left Tap G.3/8 - G.1/2
7	84.1544.00.2	2	Outlet Straight Port D.10
8	82.0010.00.2	2	Wing Nut G.1/2
9	84.5544.00.2	1	Right Tap G.3/8 - G.1/2
10	85.2585.00.2	1	Cap G.3/8
11	84.3585.00.2	2	Washer Dia. 6.4 x 12.5 x 1.6
12	86.2426.00.2	2	Screw M6 x 60 UNI5737
13	84.4525.00.2	4	Nut M5 UNI5588
14	80.3218.00.2	1	O-Ring 3.0 x 22
15	80.3059.00.2	1	O-Ring D.1.78 x 11.11
16	24.0320.51.2	1	Valve Seat
17	86.1841.50.2	1	Screw M4 x 12
18	24.0319.51.2	1	Poppet
19	24.0313.36.2	1	HPS Diaphragm
20	84.3539.00.2	4	Washer Dia. 5.3 x 10 x 1
21	86.1944.20.2	4	Screw M5 x 50
22	24.0311.32.2	1	Flange
23	80.3075.00.2	1	O-Ring
24	80.3175.00.2	1	O-Ring 2.62 x 10.78
25	85.1148.00.2	1	Pin
26	24.0314.53.2	1	Guiding Piston
27	24.0312.32.2	1	Lever
28	24.0316.48.2	1	Spring 40 Bar
28	24.0550.48.2	1	Spring 15 Bar
29	24.0321.32.2	1	Knob

Spare Parts List STING - STAP79 (15 Bar) + STAP80 (40 Bar)

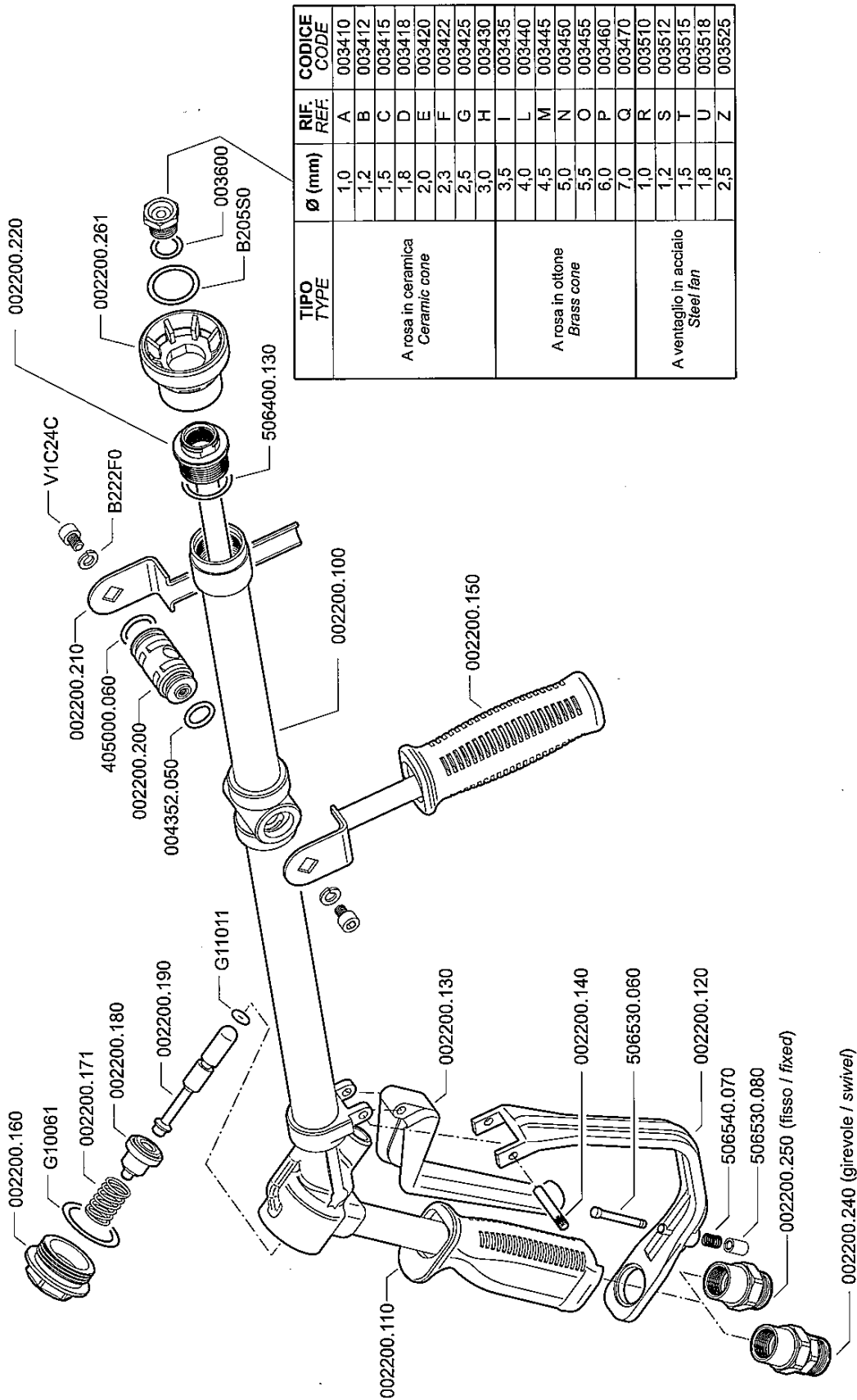


Spares Kits	
Rapid Spray Part No.	STAP134
Kit Part No.	25.9964.97.3
Kit Description	Sting Kit
Position No.	3 11 12 13 15 16 19 20
Quantity Incl.	1 1 1 1 1 1 1 1

Pos.	Part No.	Qty	Description
1	24.0300.32.2	1	Valve Housing
2	83.0080.00.2	1	Pressure Gauge (0-100 Bar)
2	83.0010.00.2	1	Pressure Gauge (0-24 Bar)
3	80.3060.00.2	1	O-Ring 1.78 x 12.42
4	84.0521.00.2	1	90° Elbow Connector Dia. 20
5	82.0042.10.2	1	Wing Nut G.3/4
6	82.5544.10.2	1	Left Cap G.3/8 - G. 1/2
7	84.1544.00.2	2,3	Outlet Straight Port D. 10
8	82.0010.00.2	2,3	Wing Nut G.1/2
9	84.5544.00.2	1,2	Right Tap G.3/8 - G.1/2
10	85.2585.00.2	1,2	Cap G.3/8
11	80.3213.00.2	1	C-Ring 3.0 x 22
12	80.3182.00.2	1	C-Ring 2.62 x 17.13
13	26.0220.18.2	1	Valve Seat
14	86.1934.80.2	1	Screw M5 x 16 UNI5933 Inox
15	26.0201.18.2	1	Ceramic Poppet
16	26.0189.36.2	1	HPS Diaphragm
17	26.0203.32.2	1	Diaphragm Holder Piston
18	24.0301.32.2	1	Flange
19	80.3208.20.2	1	O-Ring 2.62 x 34.6
20	80.3181.20.2	1	O-Ring 2.62 x 15.88
21	24.0302.53.2	1	Guiding Piston
22	24.0303.32.2	1	Lever
23	85.1161.00.2	1	Pin Dia. 4 x 45.5
24	26.0217.48.2	1	Spring (15 Bar)
24	26.0212.48.2	1	Spring (40 Bar)
25	24.0304.61.2	1	Shim
26	24.0304.32.2	1	Knob
27	24.0306.49.2	1	Spring
28	86.2428.00.2	1	Screw T.C.E.I. M6 x 65 UNI5931
29	24.0307.32.2	1	Cap
30	81.4542.00.2	4	Nut M6 UNI5588
31	84.3585.00.2	6	Washer Dia. 6.4 x 12.5 x 1.6
32	86.2426.00.2	6	Screw M6 x 60 UNI5737

Topgun Diagram & Parts

002200x-m01



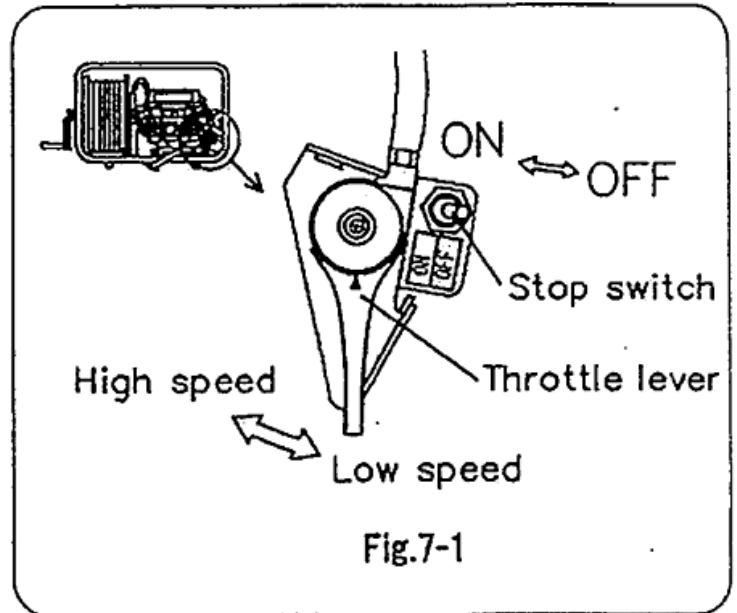
TIPO TYPE	Ø (mm)	RIF. REF.	CODICE CODE
A rosa in ceramica Ceramic cone	1,0	A	003410
	1,2	B	003412
	1,5	C	003415
	1,8	D	003418
	2,0	E	003420
	2,3	F	003422
A rosa in ottone Brass cone	2,5	G	003425
	3,0	H	003430
	3,5	I	003435
	4,0	L	003440
	4,5	M	003445
	5,0	N	003450
A ventaglio in acciaio Steel fan	5,5	O	003455
	6,0	P	003460
	7,0	Q	003470
	1,0	R	003510
	1,2	S	003512
	1,5	T	003515
	1,8	U	003518
	2,5	Z	003525



Operation Procedure

Start-up

1. Confirm that the chemical tank contains chemical.
2. Set the stop switch to the ON position. (Fig 7-1)
3. Push the priming pump on the carburettor several times until fuel begins to flow.
4. Set the throttle lever to the LOW position.
Set the choke lever in the CLOSE position when the engine is cold.
5. Turn the pressure regulating handle to the START position. (Fig 7-2)
6. While holding the sprayer steady, grip the recoil starter handle and yank it quickly.
7. While checking the engine status after start-up, return the choke lever gradually to the OPEN position.
8. For 2 to 3 minutes after start-up, perform warming up.



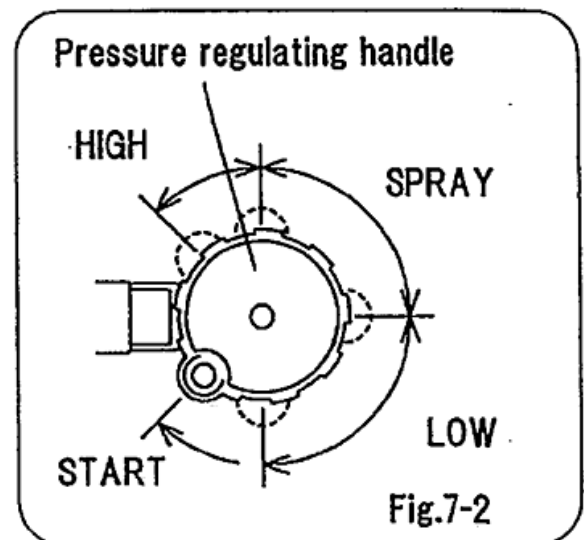
Operation— Manipulating the Pressure Regulating Valve

Turn the pressure regulating handle in the range "LOW ~ SPRAY ~ HIGH" to a position suitable to the work condition while referring to the round protruding portions as the reference. Because fine steps are provided, Fine adjustment is available.

(Fig 7-2)

Use the LOW pressure for spraying the herbicide, use the SPRAY for spraying normal agricultural chemical, and use HIGH pressure for places requiring high pressure (for washing, etc.).

The sprayer requires less power when the regulating valve is set at low pressure. Running the engine with the throttle lever fully open will result in too many revolutions and it is thus recommended to operate with the throttle lever at a medium setting.



Pump & Engine Maintenance

Maintenance should be carried out once a year.

Pump Maintenance

- Check to make sure that all screws are tightened and that no parts are missing.
- Check to make sure there are no loose connections on hoses, nozzle, lance or cock. Also check that no packing has been cut or torn.
- Thoroughly clean the nozzle and filter (for suction) is easily removable. Occasionally inspect and clean the filter.

Inspect the Engine

- Check to make sure there are no loose or missing screws in any part of the engine.
- Clean the air cleaner.
- Clean and adjust the spark plug
- Clean the cooling fan, air intake opening and parts around the muffler.
- Check the engine oil and change it. Check for oil leaks.
- Inspect the fuel line. Also check if there are any fuel leaks.
- Inspect the fuel filter. Clean the fuel tank.

Cleaning and Storing

When storing the sprayer ensure that it is clean and dry and kept in a ventilated place where there is no chance of freezing.

- Completely remove any water from the pump.
- Pull the recoil starter handle on the engine until there is resistance.
- After removing fuel from the tank, push the priming pump until fuel in the gas line runs out. Remove fuel from the tank once more.
- Check the engine oil and change it. Check for oil leaks.
- Set the throttle lever in the low speed position.
- Wipe away any dirt or dust.

Warranty

This Sprayer has been guaranteed free from defect in materials, workmanship or manufacture for 12 months from the date of purchase. Any parts which appear to us to be defective either in material or workmanship will be replaced or repaired at no cost to the purchaser, subject to the following conditions:

1. The registration card enclosed in this handbook must be returned to us within 7 days of purchase
2. The guidelines in this handbook have been adhered to in every respect.
3. In unlikely event of sprayer failure, this should be reported to your dealer who will act on your behalf to resolve the issue to your satisfaction.
4. Any defective parts will be returned by your dealer within 7 days of failure, together with a report describing the failure and conditions in which the failure occurred.
5. The following are specifically excluded from the terms of warranty –
 - Fair wear and tear to pump moving parts and diaphragms
 - Fair wear and tear to nozzles and nozzle bodies
 - Damage caused by neglect or lack of lubrication
 - Damage caused by misuse or abuse
 - Damage caused while the sprayer is in transit



Manufactured by:
Rapid Spray Southern
Murray Valley Hwy
Nathalia VIC 3638
AUSTRALIA
FREECALL: 1800 816 277

Whilst every care has been taken in the preparation of these instructions, no liabilities can be accepted with regard to errors or omissions. Product specifications are subject to change in line with our commitment to continuous improvement.

WARRANTY REGISTRATION CARD

To validate your warranty, please complete all the details below and post this card.
I have read and understood these instructions.

Sprayer Model _____ Date purchased ____/____/____

Serial No: _____

Purchased from _____
(Dealer Name and Town)

Purchaser's Name _____

Purchaser's Address _____
_____ p/c _____

Purchaser's Signature _____

To help us help you further please complete the following –

Purchaser's Age

- Up to 25
- 25 – 40
- 41-55
- Over 55

Principle Usage

- Commercial Farm
- Hobby Farm
- Industrial
- Home
- Town Council
- Hire Company
- Other

What influenced you to purchase a Rapid Spray product?

- Catalogue received
- Newspaper Advertisement
- Dealer recommendation
- Friend's recommendation
- Better features than other sprayers
- Quality and reliability
- Price
- Past experience with Rapid Spray products

What other Rapid Spray/Rapid Plas products do you use?

- Animal Feeders/Waterers
- RainWater Tanks
- Spray Tanks
- Diesel Tanks
- Inter Knapsacks
- Boom Sprayers
- Bertolini Pumps and Controllers
- Fire Fighters



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