## Turbo 21 Boxjet

### **Electric Pressure Washer**

#### **FEATURES**

This lightweight, portable high-pressure washer makes the toughest clean-up tasks faster and easier. Weighing only 43 pounds, you can take it virtually anywhere. Ideal for light industrial applications and for home owners to wash the car, the boat, the pool and patio. Use it to clean rain gutters, driveways, lawn equipment and recreational vehicles.

Each unit comes complete with a 26-foot high-pressure hose, gun and lance with variable spray nozzle (up to 45°), adjustable pressure regulator and low-pressure soap injection system.

Easy to carry - easy to use. Just remove the travel plug, attach to a garden hose, and plug into a standard 110V-15 amp circuit. Then you're ready to wash your troubles away.



#### **SPECIFICATIONS**

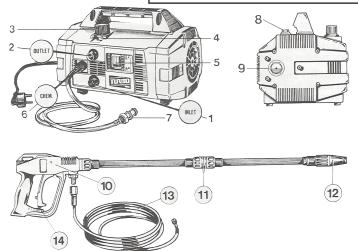
Pressure Washer Model	PU1021 (Turbo 21 Boxjet with Multireg)			
Maximum Volume	2.1 GPM			
Maximum Pressure	1000 PSI			
Single Phase Motor Power	1.5 HP			
Motor Protector	Current Thermal Overload			
Motor Protection Grade	ISO IP55			
Maximum Inlet Temperature	140 <sup>o</sup> F			
Maximum Suction Depth	3.3 ft.			
Hose Length	26 ft.			
Cord Length	7 ft. (35 ft. GFCI Cord U.L. Approved)			
Weight	42.8 lbs.			
Oil Capacity	12 oz.			
Oil Type	General Pump Oil #100214 (6-pack) or #100216 (24-pack)			
Dimensions	14.2" x 9.7" x 9.4"			





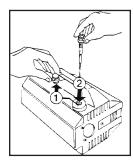


## Installation and Operating Instructions

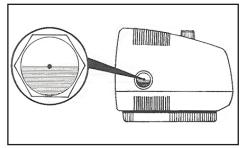


- 1. Inlet
- 2. Outlet
- 3. Pressure Adjustment Knob
- 4. Pressure Indicator
- 5. On/Off switch
- 6. Chemical Regulator
- 7. Chemical Filterr
- 8. Oil Dipstick
- 9. Oil Level Indicator
- 10. Automatic Gun
- 11. Quick-Lance
- 12. Multireg Nozzle
- 13. High Pressure Hose

#### THE MACHINE MUST BE PLACED IN A HORIZONTAL POSITION, ON A LEVEL SURFACE.



Replace the red oil travel plug (1) with the black and yellow dipstick (2).



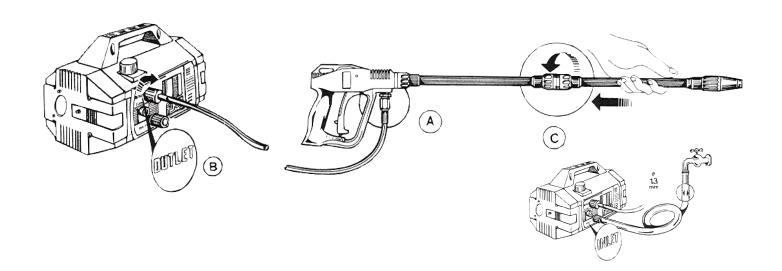
Check that the oil in the sight glass is at the halfway level.

#### Connection of high pressure line:

- 1. Connect one end of the high pressure hose to the gun (A) and the other to the outlet connection (B).
- 2. Assemble the lance by pushing the two halves together and then fix by turning the connector (C).

#### Connection to water supply:

- 1. The maximum temperature of the inlet water must not exceed 140°F.
- 2. Connect the water supply to the INLET port by means of a reinforced hose (200 PSI) with internal diameter of no less than 13 mm (1/2").
- 3 Considering that the water flow decreases in accordance with the length of the hose, make sure that the quantity of water reaching the machine is at least 2.7 GPM.



#### GENERAL PUMP A member of the Interpump Group

## **Turbo 21 Boxjet** Electric Pressure Washer

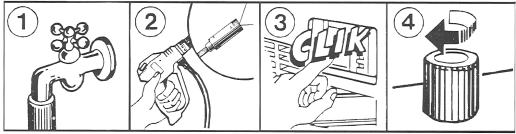
#### Connection to electrical supply:

- 1. Make sure that the main voltage is the same as shown on the identification label on the machine.
- 2. Make sure that the plug complies with your local regulations, and that it is provided with ground connection.
- 3. The power outlet must be protected by a residual circuit breaker having a sensitivity of less than 30 amp.
- 4. Do not connect other appliances to the same outlet.
- 5. Insert the plug after making sure that the switch on the machine is in the OFF position.

WARNING: In case of power failure during operation, turn the machine OFF for safety reasons.

#### Starting the machine:

- 1. Turn on the water.
- 2. Set the pressure to zero by turning the know counter-clickwise.
- 3. Switch on the unit.
- 4. Hold the gun in the open position for a few seconds to allow the air to excape from the hoses.
- 4. At this point adjust the machine to your pressure requirement and you are ready to begin.



#### CHECKING AND CHANGING THE OIL

- The level of the oil must be checked periodically.
- The first important oil change must be carried out after the first 20 hours of work and successively every 150 hours.
- In any case we suggest an oil change at least once a year.
- Oil type: Series 100 GP-oil (30 wt. non-detergent)
- Capacity: 11 oz.

#### **GENERAL PRECAUTIONS FOR USE**

- 1. Keep the machine out of the reach of children.
- 2. High pressure water jets are potentially dangerous if used incorrectly. In particular, the jet must not be directed against persons or animals, electrical equipment or the machine itself.
  - **DO NOT USE** the machine when persons and/or animals are within the reach of the jet.
- 3. The user must operate the machine in safe conditions and situations avoiding any situations of potential danger to himself or other persons. In particular the user will have to:
  - Avoid operating in unstable balance conditions.
  - Remember that the high pressure jet generates a recoil when the gun is opened. The force of this recoil is less than 4.5 pound-force.
  - Use adequate protective clothing.
  - Wear protective goggles and anti-slip rubber shoes.
  - Avoid contaminating the environment with polluting, toxic or harmful substances.
- 4. This machine is build in compliance with the requirements of the current safety regulations. The use of electrical appliances involves the respect of some basic rules:
  - Do not touch electrical parts or components.
  - All operations of inspection, maintenance or repair must be made by qualified personnel only. ALWAYS disconnect the plug before proceeding to any of the above mentioned operations.
- 5. Do not pull power cord to unplug. Do not pull high pressure hose to move unit.
- 6. Before using the machine, inspect power cord to make sure it is not damaged. If it is damaged, have it replaced by qualified personnel. Replace power cord only with a cable of the same type as the original, this can be identified by the marking on the outer sleeve. Do not damage or effect risky repair on power cord.
- 7. Before using the machine, inspect high pressure hose to make sure it is not damaged. In case of replacement make sure the new hose has at least the same specifications as the original. Technical specifications (maximum working pressure, date of manufacture, name of manufacturer) must be marked on the outer sleeve of hose.

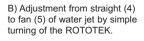
## Turbo 21 Boxjet Electric Pressure Washer

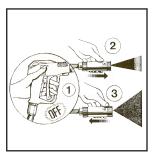
#### **GENERAL PRECAUTIONS FOR USE (continued)**

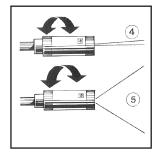
- 8. While the machine is running, do not cover it and do not place it in an enclosed space with insufficient ventilation.
- 9. Do not leave the machine running for more than 5 minutes with the gun closed. Should it run for a longer period, the temperature of the recirculating water will increase rapidly and could risk damaging the pump and pump seals.
- 10. When the machine is not in use, lock gun trigger in safe position to prevent it from being opened by accident.
- 11. For the sake of safety use only approved spare parts and accessories.

#### HOW TO USE THE "ROTOTEK" (OR "MULTIREG")

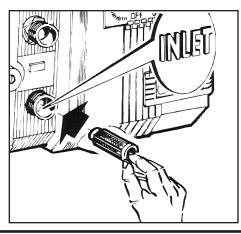
A) Selection of high or low pressure by push-pull action. The selection of the pressure must be carried out with the gun in closed position (1).







#### CHECKING THE WATER FILTER

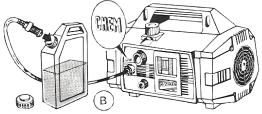


It is important to check the filter before using the machine. Remember that a well-cleaned filter means good performance and long life for your machine.

#### HOW TO USE THE DETERGENT KIT

The unit can suck and mix detergents and other liquid chemicals thanks to an automatic device incorporated in the unit itself, which is remote-controlled by operating the Rototek. The unit is equipped with a chemical suction kit (Fig A).

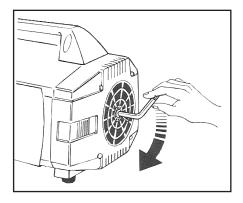








- Fit the brass connector into the chemical control knob and filter into chemical container (Fig. B).
- Select low pressure with the Rototek (Fig. C)
- At this point the suction and mixing of the chemical will start automatically.
- You can regulate the quantity of chemicals by adjusting the chemical control knob (Fig. D).
- When you wish to stop using chemicals in order to clean or rinse, simply release the gun trigger and adjust the Rototek to high pressure.
- At this point the chemical injection automatically stops.
- If you foresee not using the unit for a long period of time, we suggest to clean the chemical suction kit with clear water to avoid chemical deposit build-up.



# PRECAUTIONS IN THE CASE OF STORING or FREEZING

If the unit is to be stored in a place where there is risk of freezing, or it is to remain unused for more than 3 months, we recommend placing some anti-freeze solution into the pump (a normal anti-freeze as used in your vehicle). If in doubt at low temperatures or any long length of storage time, we suggest you turn the motor with the key provided before starting, to release any possibilities of blockages from freezing or a build-up of line scale deposits.

Taking these precautions before starting will avoid damage to the unit

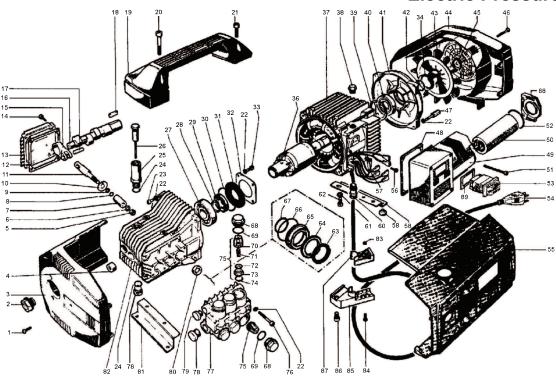
Remember to remove the key before switching on.

# **Turbo 21 Boxjet** Electric Pressure Washer

TROUBLESHOOTING			
PROBLEM	CAUSE	SOLUTION	
Pump running normally but pressure does not achieve rated values	Pump sucking air	Check that hoses and fittings are air tight	
Tated Values	Valves worn or dirty Unloader packing worn Nozzle incorrect or worn Worn piston packing Dirty filter	Check, clean or replace Check and replace Check and replace Check and replace Check and clean	
Fluctuating pressure	Valves worn or stuck Pump sucking air	Check, clean or replace Check that hoses and fittings are air tight	
	Worn piston packing Dirty filter	Check and replace Check and clean	
Pressure drops after period of normal use	Nozzle worn Valves worn, dirty or stuck Unloader packing worn Worn piston packing Dirty filter	Check and replace Check, clean or replace Check, clean or replace Check and replace Check and clean	
Pump noisy	Pump sucking air	Check that hoses and fittings are air tight	
	Valves dirty or worn Worn bearings Water top hot Dirty filter	Check, clean or replace Check and replace if necessary Reduce temperature Check and clean	
Presence of water in oil	High humidity in air	Check and change oil twice as often	
	Piston packing and oil seal worn	Check and replace	
Water dripping from under pump	Piston packing worn The o-rings of piston guide or retainer worn	Check and replace Check and replace	
Oil dripping	Oil seal worn	Check and replace	
The motor does not start when switched on	The plug not well connected or lack of power supply	Check plug, cable and switch	
When switching on the unit, the motor hums but does not turn on	The main voltage is insufficient, lower than the minimum required	Check that the main power supply is adequate	
not turn on	The pump is stuck or frozen	Check by turning the motor manually as described in instructions (page 4)	
	Incorrect extension cord	Check and replace	
The motor stops	Tripped thermal overload due to overheating	Check that the main voltage corresponds to the specifications: F-122, F-124, X-220, X230, X240 switch off the motor and let it cool a few minutes	
		X117 & X161: wait a few minutes before turning on the unit again	

### GENERAL PUMP A member of the Interpump Group

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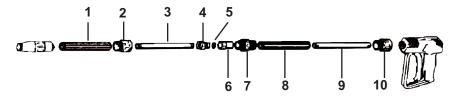


PAR	RTS LIS	T									
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1.	99157000	Screw, M5 x 16	6	31.	50211551	Spacer, Crankcase	1	61.	96701400	Washer, M8.4, Schnorr	4
2.	97596800	Indicator, Oil	1	32.	50150074	Cover, Crankcase	1	62.	99303700	Screw, M8 x 16	4
3.	51230151	Cover	1	33.	99180700	Screw, M6 x 10	4	63.	51100051	Ring, Head	3
4.	91801400	Bearing, Needle	1	34.	90165200	Seal, Oil	1	64.	90261800	Packing	3
5.	92221600	Nut, M8, SS	3	36.	41340702	Rotor	1_	65.	51080070	Retainer, Packing	3_
6.	96700800	Washer, M8	3	37.	41328602	Housing	1	66.	90360400	O-ring, .989 x .070	3
7.	51040009	Piston, dia. 15mm	3	38.	98209300	Plug, 3/8-19 BSPP	1	67.	90383500	O-ring, .593 x .103	3
8.	90357200	O-ring,.208 x .070	3	39.	90079500	Ring, Dia. 52mm	1	68.	96221800	Plug, Valve, M24	6
9.	90502200	Ring, Back-up, 6.2x9x1.5	3	40.	91832300	Bearing, Ball	1	69.	90384700	O-ring	6
10.	96707000	Washer, M9	3	41.	41070022	Cover, Rear Motor	1_	70.	36200251	Guide, Valve	6_
11.	51050056	Guide, Piston	3	42.	90385700	O-ring, .937 x .103	1	71.	94737600	Spring	6
12.	51210184	Cover, Gasket	1	43.	41030051	Fan, Motor	1	72.	36200176	Plate, Valve	6
13.	51160322	Cover, Crankcase	1	44.	51230051	Cover, Motor	1	73.	36200366	Seat, Valve	6
14.	99186700	Screw, M6 x 18	4	45.	90062800	Clip, Retainer	1	74.	90384100	O-ring, .674 x .103	6
15.	51030022	Rod, Connecting	3	46.	99165800	Screw, M5 x 45	4_	75.	36703201	Unit, Valve	6_
16.	51020435	Crankshaft	1	47.	41210465	Screw	4	76.	99194300	Screw, M6 x 40	6
17.	97731000	Pin, Connecting Rod	3	48.	41210147	Gasket	1	77.	51120022	Manifold, Aluminum	1
18.	91487800	Key	1	49.	41212451	Cover, Switchplate	1		51120041	Manifold, Brass	1
19.	51240051	Handle	1	50.	93568800	Capacitor	1	78.	98210000	Cap, 3/8-19 BSPP	2 .
20.	99314400	Screw, M8 x 50	2	<u>51.</u>	99170600	Screw	4	79.	98204100	Cap, 1/4-14 BSPP	1_
21.	99306900	Screw, M8 x 25	2	52.	90388600	O-ring, 1.799 x .103	1	80.	90156500	Seal, Oil	3
22.	96693800	Washer, M6, 4, Schnoor	20	53.	93503100	Switch	1	81.	51200274	Rail, Mounting	1
23.	99189700	Screw, M6 x 25	4	54.	10710801	Cable	1	82.	51010322	Crankcase	1
24.	90383300	O-ring, .549 x .103	2	55.	51230751	Caver	1	83	92192600	Nut, M4	2
25.	51210051	Spacer, Oil Dipstick	1_	56.	99151500	Screw, M5 x 12	1_	84.	99130600	Screw, M4 x 16	2
26.	98209700	Oil Dipstick	1	57.	96691300	Washer, M5.3x9x.6	1	85.	41211851	Holder, Cable	1
27.	91832800	Bearing, Ball	1	58.	51200374	Rail, Mounting	1	86.	99303900	Screw, M8 x 16	1
28.	90063500	Circlip	1	59.	98192400	Plug	4	87.	41211951	Clamp	1
29.	90163400	Ring, Oil Seal	1	60.	93521000	Nut, Cable Fitting	1	88.	41212051	Cover, Swichbox	1
30.	90409700	O-ring, 2.187 x .139	1					89.	41212684	Gasket	1

REPAIR KIT	[ <b>S</b>					
KIT NO.	1	83	84	85	86	87
ITEM NO'S INCLUDED IN KIT	70, 71, 72, 73, 74, (75)	80	68, 69	63, 64, 65, 66, 67	65, 66, 67	63, 64, 66, 67
NUMBER OF ASSY'S IN KIT	6	3	6	1	3	3

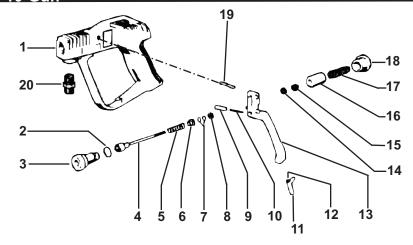
## Turbo 21 Boxjet Electric Pressure Washer

#### **QUICK LANCE**



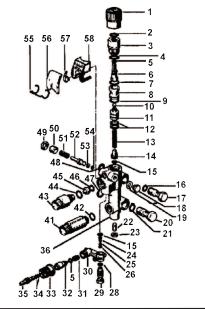
ITEM	PART NO.	DESCRIPTION	QTY
1.	18010698	Hand Grip	1
2.	10029551	Ring Nut	1
3.	18203389	Tube	1
4.	10029770	Male Coupling	1
5.	90382000	O-ring	1
6.	1002870	Female Coupling	1
7.	10029651	Coupler	1
8.	18010498	Hand Grip	1
9.	18203389	Tube	1
10.	10029451	Ring Nut	1

#### P10 Gun



ITEM	PART NO.	DESCRIPTION	QTY
1.	18205802	Gun Body	1
2.	90384100	O-ring	1
3.	18205902	Valve Seat	1
4.	18207102	Rod	1
5.	94737800	Spring	1
6.	18204270	Guide Spring	1
7.	90356800	O-ring	2
8.	90500700	Anti-ext. Ring	1
9.	18205370	Shaft	1
10.	94730500	Spring	1
11.	18205051	Latch	1
12.	94730300	Spring	1
13.	18204851	Trigger	1
14.	96684000	Washer	1
15.	92193500	Nut	1
16.	18205270	Spring Guide	1
17.	94741400	Spring	1
18.	98219200	Cap	1
19.	97615500	Pin	1
20.	95284000	Inlet Fitting	1

#### **ZOKR1 UNLOADER**



ITEM	DA DT NO	DECODIDATION	OTV	ITEM	PART NO.	DESCRIPTION	QTY
1.	36258351	DESCRIPTION  Knob. Adjusting	QTY_	28.	90358500	O-ring, .426 x .070	1
2.	90383500	O-ring, .594 x 103	1	29.	36256370	Seat. Valve	1
			1	29. 30.	36256251	Body. Chem Ini.	1
3.	36255670	Screw, Press. Adjust.	1	31.	94738300		1
4.	90384700	O-ring, .797 x 103	1	31. 32.		Spring, .384 x .394	1
5.	90358000	O-ring, .344 x .070	2		36256470	Needle, Valve	1
6.	36257402	Piston, Unloader	1	33.	36356551	Knob, Adjusting	1
7.	90359800	O-ring, .801 x .070	1	34.	90357000	O-ring, .176 x .070	2
8.	36255466	Seat, Valve	1	35.	36256670	Hose Barb	1
9.	90359600	O-ring, .739 x .070	1	36.	36258241	Body, Valve	1
10.	97480200	Ball, 9/32"	1	41.	36258470	Nipple, Inlet, 1/2 NPT	1
11.	36257270	Piston, .089	1	42.	90359100	O-ring, .551 x .070	1
12.	90508000	Ring, Back-up	2	43.	10031870	Nipple, Outlet, 3/8 NPT	1
13.	94734400	Spring, .295 x1.575	1	44.	90383200	O-ring, .549 x .103	1
14.	36255270	Support, Spring	1	45.	10030751	Nozzle, .071	1
15.	90358200	O-ring, .364 x .070	2	46.	90382200	O-ring, .391 x .103	1
16.	90382000	O-ring, .369 x .103	1	47.	90383900	O-ring, .625 x .103	1
17.	36256770	Fitting, Banjo	1	48.	90383300	O-ring, .549 x .103	1
18.	98196600	Plug. Hex Head	1	49.	92259200	Nut, Jam, M14	1
19.	96710000	Washer, Flat	1	50.	36258070	Screw, Adjusting	1
20.	36256870	Fitting, Banjo	1	51.	94733800	Spring, .283 x .709	1
21.	90382700	O-ring, .469 x .103	1	52.	36257970	Piston, Gauge	1
22.	99305400	Screw, Set	1	53.	90500700	Ring, Back-up	1
23.	99221800	Nut, Jam, M8	1	54.	90356800	O-ring, .145 x .070	1
24.	94821700	Spring, Conical	1	55.	94871800	Clip, Spring	1
25.	97478200	Ball, 7/32"	1	56.	36257751	Cover, Gauge	1
26.	90357200	O-ring, .208 x .070	1	57.	36257851	Needle, Gauge	1
				- 50	20250004	F 0	1

#### REPAIR KITS

KIT NO.	94	95
ITEM NO'S INCLUDED IN KIT	5, 15, 24, 25, 26 28, 31, 34, 44, 46	2, 4, 5, 7, 8, 9, 10, 11, 12, 13, 15, 16, 21, 42, 47, 48, 53, 54
NUMBER OF ASSY'S IN KIT	1	1

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