DEMON TORNADO MINI BOWSER RANGE

Tornado P1 Mini Bowser
Tornado P2 Mini Bowser
Tornado P4 Mini Bowser
Tornado D1ES Mini Bowser
Tornado Electron Mini Bowser
Tornado Storm 1 Mini Bowser
Tornado P2 LPG Mini Bowser

Including electric start variants and bowser washers

Declaration of Conformity (E.H.S.R.)

We, Demon International Limited of Abbots Close, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9GA, declare that this machine must be operated in accordance with the operation and safety instructions as supplied with this machine.

This machine is manufactured in accordance with the following standards and recommendations.

HSE PVB PM29 - BS5415 Part - BS5415 Section 2.4 1986

This instruction manual is relevant only to the following machine and will not be kept updated unless specifically requested by the customer. However, any changes to the operating procedure or changes which might affect the safety of this machine will be notified to the registered owner

Machine Type	
Serial Number	
Working Pressure	
Date of Supply	

Technical Specifications

Tornado P1 Mini Bowser Tornado P4 Mini Bowser

Engine	Honda GX160	Engine	Honda GX340
Pump	RSV3G25	Pump	RK15-20H

Pressure 1500 PSI Pressure 2900 PSI / 200 Bar

Flow 11 lpm Flow 15 lpm Nozzle 25045 Nozzle 2505

Gearbox None Gearbox 2:1 Reduction Unloader Integrated Unloader Gymatic3B Pump Oil 10W/40 Pump Oil 10W/40 **EP90** Gearbox Oil N/A Gearbox Oil

Tornado P2 Mini Bowser Tornado D1ES Mini Bowser

Engine	Honda GX200	Engine	Yanmar L70
Pump	XT13-15	Pump	XT13-15
Pressure	2200 PSI	Pressure	2200 PSI
Flow	13 lpm	Flow	13 lpm
Nozzle	25045	Nozzle	2505

Gearbox 2:1 Reduction Gearbox 2:1 Reduction Unloader ARMM4B Unloader ARMM4B Pump Oil 10W/40 Pump Oil 10W/40 Gearbox Oil **EP90** Gearbox **EP90**

Tornado Storm 1 Mini Bowser

Pump	XT11-14	Motor	MTR00100
Pressure	1500 PSI / 100 Bar	Motor output	P1 2.2KW
Flow Rate	11 lpm	Motor input	P2 3.0KW
Max by pass setting	120 bar /1750 psi	Max current	12.5 amps
Nozzle	25045	Voltage	230v + or—10V
Pump oil	10W/40	Insulation	Class F
	A DA 4A 4 A D 10	D . C .	4.000/

Unloader valve ARMM4B/C Duty Cycle 100%
Noise Protection IP54

Tornado Electron Mini Bowser

Motor	24DC	Nozzle	25045
Pump	XT11-14	Unloader	ARMM4B/C
Pressure	1200 PSI	Flow	11 lpm

Pump oil 10W/40

Battery 2 x 100amp/hour lithium ion batteries

Smart battery charger 24V

WE RECOMMEND ONLY USING A 15 MTR HOSE WITH THE P1 MINI BOWSER

Important—New P2 Machines

Each new P2 machine will be set at 2000psi as opposed to 2200psi until the machine has been run for approx 2-3 hours continuously. Once the machine has been run then the pressure can be adjusted to achieve the maximum 2200psi by turning the pressure regulating valve until its fully open.

Technical Specifications

Tornado P2 Mini Bowser LPG

Engine Honda GX200 LPG

Pump XT13-15
Pressure 2200 PSI
Flow 13 lpm
Nozzle 25045

Gearbox 2:1 Reduction
Unloader ARMM4B
Pump Oil 10W/40
Gearbox Oil EP90

Kits for the Tornado Mini Bowser Range

Machine	P1	P2 & LPG	P4	D1ES	Electron	Storm 1
Valve Kit	2186	1864	1828	1864	1864	1864
Seal Kit	2189	1874	1857	1874	1874	1874
Piston Kit	2187	2629	2757	2629	2629	2629
Oil Kit	2188	1872	1855	1872	1872	1872
Support Ring Kit	2191		1829			
O Rings	2190	2812				

FAULT FINDER

FAULT	CAUSE	REMEDY
Machine stops suddenly Or will not start.	Low oil	Check and top up oil
	Out of gas (LPG)	Change gas bottle
	Flat Battery (Electron)	Re-charge
Sudden pressure loss.	Water supply failed. No chemical	Check water supply. Check chemical drum, close valve
Low pressure	HP nozzle worn or unloader set Incorrectly.	Replace HP nozzle. Set unloader to correct setting.
Low pressure with noise and vibration.	Valves worn or blocked. Piston seals worn. Pump sucking air.	Clean/replace as required. Replace. Check water supply pipe and unions.
Pump will not by-pass.	Non return valve dirty or jammed.	Clean or replace.
Water drips from pump box.	Pump seals worn.	Replace.
Oil drips from pump bottom.	Oil seal worn.	Replace.
Oil is milky in colour.	Water ingress through oil filter plug.	Rinse pump out and replace oil.

IF IN DOUBT ASK—OUR ADVICE IS FREE AND CAN SAVE YOU MONEY



MINIMUM SERVICE SCHEDULES

DAILY CHECK THE FOLLOWING

- a. Oil level top up as required.
- b. Fuel tank top up as required.
- c. All hose unions for leaks- replace O rings if leaking.
- d. Hose condition cuts etc.

EVERY 500 HOURS OR SIX MONTHS (WHICHEVER COMES FIRST)

- a. Drain and replace pump oil.
- b. Drain and refill fuel tank.
- c. Replace fuel filter.
- d. Clean water filter.
- e. Replace high pressure nozzle.

EVERY 1000 HOURS OR 12 MONTHS (WHICHEVER COMES FIRST)

- a. Complete 500 hour service.
- b. Replace pump seals.
- c. Replace oil seals.
- d. Check unloading pressure and safety valve pressure and adjust.

The above service schedules are intended as a guide only, actual service times and replacements parts required will vary according to the area and the usage of the machine.

OPERATING INSTRUCTIONS ENGINE DRIVEN

SAFETY

- I Water at high pressure is dangerous and can cause serious injury. This machine is to be used with great caution.
- II Petrol is extremely flammable and explosive under certain conditions.
 - EXHAUST FUMES CONTAIN CARBON MONOXIDE Inhalation of such fumes can KILL.
- III Diesel is flammable and harmful if swallowed.
- A Always refuel in an area which is adequately ventilated.
- B DO NOT smoke when refuelling.
- C Avoid overfilling.
- D Should fuel be spilt, wipe off any fuel spilt on machine or engine.
- E Move the equipment away from the area where fuel has been spilt.
- F DO NOT refuel when the engine is running.
- G DO NOT run the engine in an area which has a hazardous or explosive atmosphere.
- H Always ensure that the fuel cap is secure after refuelling.
- I Keep the engine at least 3 metres or more away from any other equipment or Building.
- J Take care not to get fuel on your clothing. If this happens CHANGE your clothing IMMEDIATELY.

 DO NOT start an engine when clothing has been contaminated with fuel.
 - bo Not start an engine when clothing has been containinated with racis
- K Use only approved type containers for fuel. DO NOT stand them out in strong sunlight, keep them in the shade.
- L ALWAYS ensure that there is a suitable type fire extinguisher available and is within easy access.
- M DO NOT leave an engine running unattended, ALWAYS STOP it before leaving the area.
- N NEVER point the high pressure spray jet at any person, animal, glass or other material which may shatter.
- O PREVENT any over spray from injuring other people or damaging property.

- P DO NOT even try to use a pressure washer on machinery or electrical equipment that is connected in any way to the mains supply (ALL switches in the OFF position, pull out plugs, if possible remove fuses). Cover or seal electric motors and fittings to prevent entry of water. Before reconnecting electric mains supply check for water penetration.
- Q DO ALL you can to keep plugs and sockets in a dry place or covered to prevent entry of water.
- R ALWAYS when using this machine:-
 - wear safety goggles and helmet or helmet with a visor.
 - Wear waterproof clothing and gloves.
 - Take particular care with detergents and chemicals.
- S NEVER attempt to disconnect any hose with pressure in it or allow the hose to be flattened or kinked.
- T DO NOT use a high pressure hose from a ladder. Use a platform tower or proper scaffolding.
- U Should the equipment fail to operate, DO NOT attempt to rectify or repair, but contact the nearest Service Centre for advice.
- V ALWAYS rinse your pump out after using sea water.

OPERATING INSTRUCTION LPG ENGINE

- A. Connect gas regulator to gas bottle.
- B Turn on gas.
- C Purge gas valve once on top of the engine.
- D Turn engine switch to on.
- E Pull re-coil to start.

TO STOP LPG ENGINE

- F Switch engine to stop.
- G Close gas valve on bottle
- H Release pressure by operating trigger.

PREPARATION

Water Supply:

- A Ensure there is an adequate water supply either from the mains or a reservoir.
- B Attach water supply hoses to suitable tap or immerse the suction hose with approved suction filter into the reservoir.

NOTE: ONLY CLEAN WATER SHOULD BE USED. THE PUMP MAY BE DAMAGED IF DIRTY OR CONTAMINATED WATER IS ALLOWED TO PASS THROUGH THE PUMP.

Hoses: Low pressure inlet.

For models up to 13 litres per minute use ½ "bore suction hose or feed pipe. For models from 13 litres to 24 litres per minute use ¾" bore suction hose or feed pipe.

Hoses:High pressure outlet.

For all models use 3/8" RIT or 3/8" R2T hoses.

- A Check the condition of the "O" rings in the ends of the hose.
- B Attach the high pressure hose to the pump connection.
- C Attach the spray gun to opposite ends of the high pressure hose.

OPERATION

- A Turn on the water supply.
- B Start the engine
- C Direct lance on to surface to be cleaned. Press the lance trigger.
- D Leaving the pressure washer on by-pass for prolonged periods without operating the lance Will cause the water in the pump to heat up. This heat build up may damage the seals and Valves in the pump.

ELECTRON

- A Fully charge battery.
- B To start DC Motor turn key and pull switch up.
- C Adjust pressure regulator as required to obtain working pressure if required.
- D NOTE: The high pressure water will cause the gun to "kick" make sure you have a firm grip of the gun and lance.

- E On completion of operation stop the DC motor.
- F Operate lance trigger
- G Release residual pressure in gun and lance by operating trigger.

Electron

The Electron is fitted with a battery monitor which will indicate the condition of the batteries. The battery indicator will show the current condition of the battery by way of a gauge and percentage level. Batteries **MUST NOT** be fully discharged before re-charging to maximise life Cycles of the batteries.

When using Cleaning Agents:

- A. Set machine up as for water.
- B. Connect detergent hose to machine and place filter end into detergent.
- C. On completion of work, flush through hose and gun with clean water to remove any residual detergent.

NOTE: CHEMICAL PICKUP ONLY OPERATES AT PRESSURES BELOW 250PSI.

OPEN LANCE VALVE FULLY TO OBTAIN THIS PRESSUR

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PREPARATION TORNADO STORM 1

Water Supply:

- a. Ensure there is an adequate water supply either from the mains or a reservoir.
- b. Attach water supply hoses to suitable tap or immerse end of hose into reservoir

NOTE: ONLY CLEAN FILTERED WATER SHOULD BE USED

Hoses:

- a. Attach the high pressure hose to the pump connection.
- b. Attach the spray gun to opposite end of the high pressure hose.
- c. Ensure that the regulator nozzle on the end of the spray lance is **CLOSED**

OPERATION

(Check that electric motor is switched 'OFF')

- a. Plug into a suitable electrical source. (Not an extension lead)
- b. Turn on water supply.
- c. Ensure that the trigger is 'OPEN' to vent air from the pump.
- d. Switch 'ON' electric motor.
- e. Open regulator nozzle slightly and direct lance on surface to be cleaned. Press operating trigger.
- f. Adjust pressure regulator as required to obtain working pressure.
- g. NOTE: The high pressure water will cause the gun to 'kick'. Make sure you have a firm grip of the gun and lance.
- h. On completion of the operation switch 'OFF' electric motor and unplug from power supply.
- i. Turn 'OFF' water supply.
- j. Release residual pressure in gun and lance by operating trigger.

OPERATING HINTS TORNADO STORM 1

- During very cold weather it is most important to protect the machine against freezing. DO NOT operate machine should it become frozen. Move it to a warm area and allow to thaw naturally.
- b. Check all hoses and couplings for leaks, tighten where necessary.

WHEN USING CLEANING AGENTS

- a. Set machine up for water only.
- b. Connect detergent hose to machine and place filter end into detergent reservoir. Unscrew the adjustable nozzle on the end of the lance to reduce the pressure to 500psi. The chemical will now be automatically injected into the water.
- c. On completion of work, flush through hose and gun with clean water to remove any residual detergent.

SERVICING

The Storm range require little maintenance apart from checking the oil level at least every week and changing the oil should it turn white or it is six mouths old. If the oil turns white it is due only to water entering the pump via the dipstick, which has a breather hole drilled through. The design of the pump does not allow water from the pump to gain access to the gearbox drive.

Should the performance be reduced to a level where the jet is ineffective contact the service department to ascertain the correct remedial repair work.

If using sea water flush after use with fresh water and spray any 3 way valves with silicone spray to lubricate valve.

OPERATING INSTRUCTIONS STORM 1

SAFETY

- i. A Residual Current Device (R.C.D.) or Earth Leakage Trip must be used with this machine.
- ii. Water at high pressure is dangerous and can cause serious injury. This machine is to be used with great caution.
- a. **NEVER** point the high pressure spray jet at any person, animal, glass or any other material which may shatter.
- b. **PREVENT** any over-spray from injuring other people or damaging property.
- c. **DO NOT** even try to use a pressure washer on machinery or electrical equipment that is connected in any way to the mains supply. (all switches in the off position, pull out all plugs and if possible remove fuses). Cover or seal electric motors and fittings to prevent entry of water.
- d. **ALWAYS** when using machine:-
 - wear safety goggles and helmet or helmet with a visor.
 - wear waterproof clothing and gloves.
 - take particular care with detergents and chemicals.
- e. **NEVER** attempt to disconnect any hose with pressure in it or allow the hose to be flattened or kinked.
- f. **DO NOT** use a high pressure hose from a ladder. Use a platform tower or proper scaffolding.
- g. **CHECK** that your supply voltage agrees with that shown on the machine.
- h. Demon do not recommend the use of an extension lead using an extension lead will result in switch failure or motor damage. Demon strongly recommend the use of extension hoses as opposed to extension leads. Warranty claims for damaged switches and motors used on extension leads will not be allowed. Ask the service department if in doubt.
- I. **DO ALL** you can to keep plugs and sockets in a dry place or covered to prevent entry of water.
- j. Where a cable is found to be damaged, the power must be switched off and the plug removed before attempting to remove the equipment.

Step by Step Operating Manual Demon Mini-Bowser

How to start the Mini-Bowser



Check gearbox oil and replenish as required.



Check pump oil and replenish as required

3



Check engine oil and replenish as required.

(4)



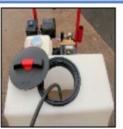
Check petrol and replenish as required.

-



Check filter inside tank is not blocked. Clean as required.

6



Fill the tank with water.

10

Attach trigger to high pressure hose.

.01



Turn engine switch to 'on' position.

9



Turn fuel to 'on' position

E[4]



If this is first use of the day then switch the choke to the 'on' position

56



Pull the recoil to start.

Step by Step Operating Manual Demon Mini-Bowser

17



Once the machine is running gently turn the choke to 'off' position

CEY



To switch off turn the engine button to the 'off' position.

97



Release any pressure in hose by squeezing trigger and disconnect hoses from machine.

16

To transport – ensure fuel is to the 'off' position

Model	Max operating Pressure	Operating Range	Nozzle
P1	1500 psi	1000-1500 psi	045
P2	2200 psi	1500-2200 psi	045

Important - New P2 machines

Each new P2 machine will be set at 2000psi as opposed to 2200psi until the machine has been run for approx 2-3 hours continuously.

Once the machine has been run then the pressure can be adjusted to achieve the maximum 2200psi by turning the pressure regulating valve until its fully open.

Step by Step Operating Manual Demon Storm 1 & 2

How to start the Storm 1 & 2





Check oil using sight glass or dipstick. Replenish as required.



Connect to mains water supply or a suction hose and filter.

3



Connect high pressure hose to machine.



Attach trigger to high pressure hose.



Unwind power lead and plug into mains. NB not an extension lead

- 6



Switch the machine on and begin operating.



When finished press switch too off.

8



Unplug and rewind power lead.

...



Disconnect high pressure hose from machine

FU



Disconnect from mains water supply.

Step by Step Operating Manual Demon LPG Mini Bowser

How to start the **LPG Mini-Bowser**





Connect gas regulator to gas bottle.





Turn on gas



Purge gas valve once on top of the engine



Turn engine switch to



Pull the recoil to start.



Fill the tank with water.



Attach trigger to high pressure hose.



Release any pressure in hose by squeezing trigger and disconnect hoses from machine

Step by Step Operating Manual Demon LPG Mini-Bowser

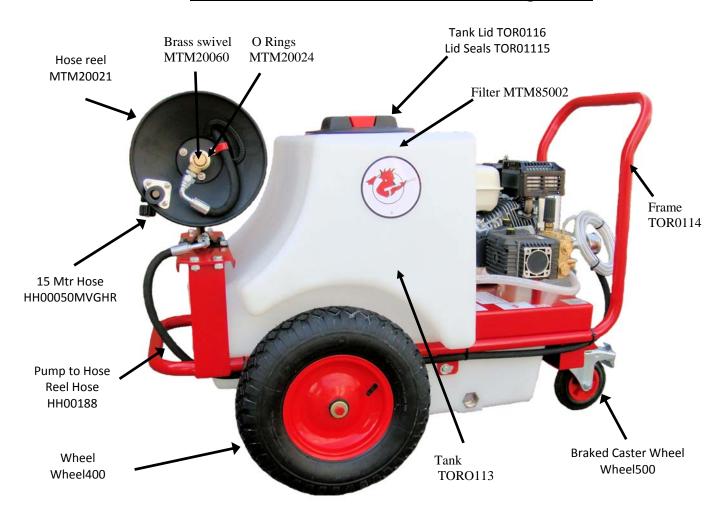
Model	Max Operating Pressure	Operating Range	Nozzle
P2	2200 psi	1500-2200 psi	045

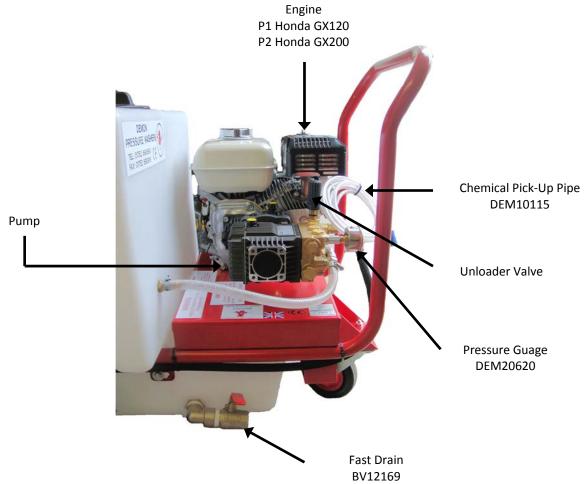
Important - New P2 machines

Each new P2 machine will be set at 2000psi as opposed to 2200psi until the machine has been run for approx 2-3 hours continuously.

Once the machine has been run then the pressure can be adjusted to achieve the maximum 2200psi by turning the pressure regulating valve until its fully open.

Tornado Mini-Bowser - General Arrangement





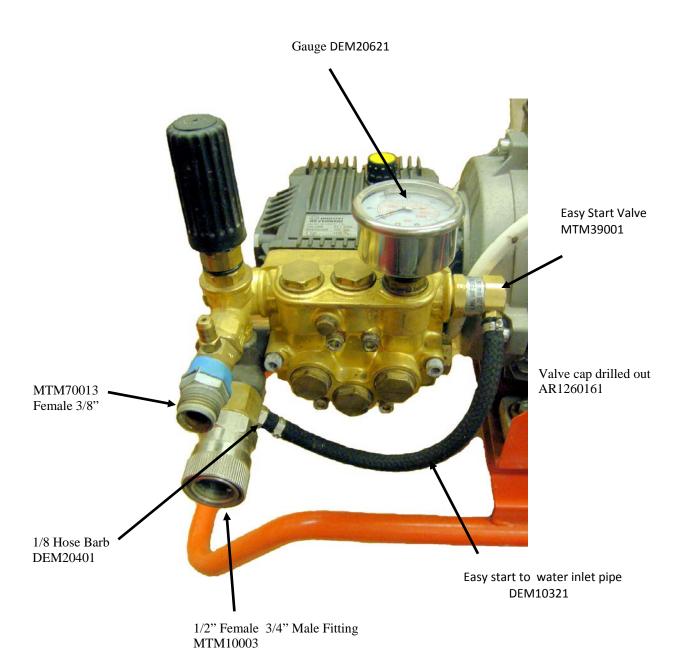
Demon Storm 1 Cold Water Range—General Arrangement





Inlet Fittings DEM20441 3/8 X 1/2" Hose tail MTM0012FF03 Brass elbow 1/2FF

Demon Storm 1—Easy Start Valve



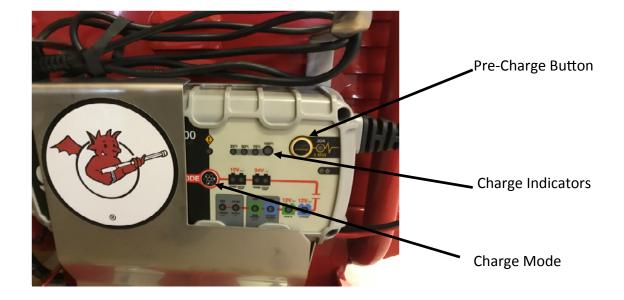
Tornado LPG P2 Mini Bowser General Arrangement

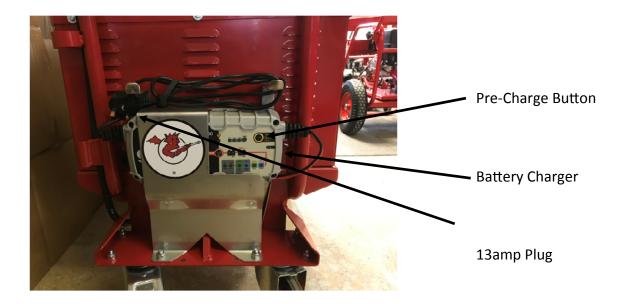


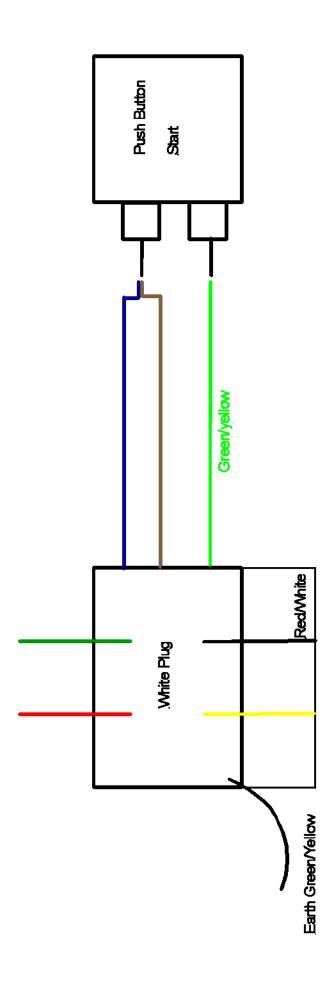
Tornado Electron Charging

When the Tornado Electron requires charging please follow the instructions below.

- 1. Switch off the pressure washer.
- 2. Release the pressure in the lance.
- 3. Plug in the mains lead to 13 amp supply.
- 4. Charger should start on 24V Cold setting (if not set with the charge mode button)
- 5. If the charger does not start as the batteries are totally discharged push the Pre-charge button. Then complete charging as instruction 4.



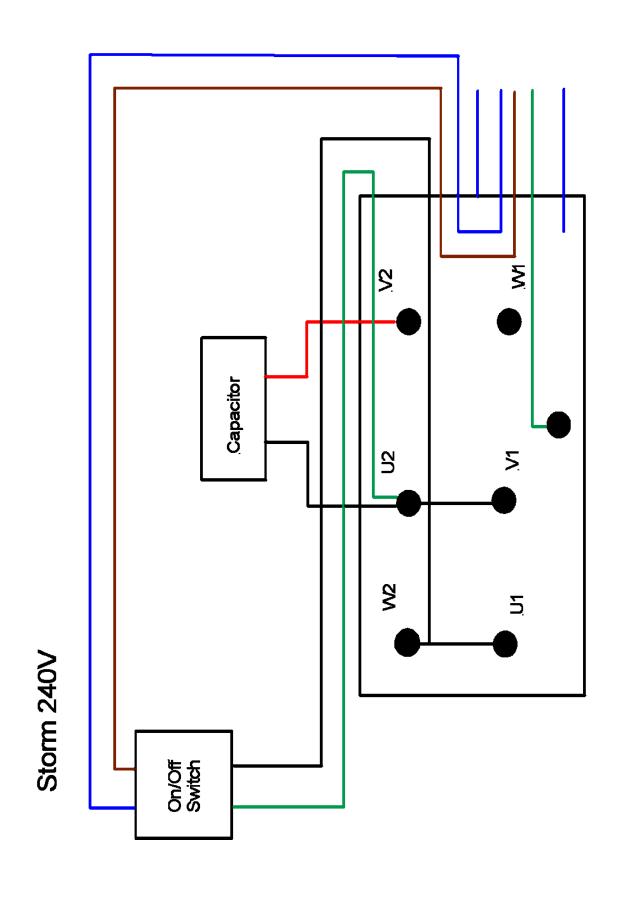


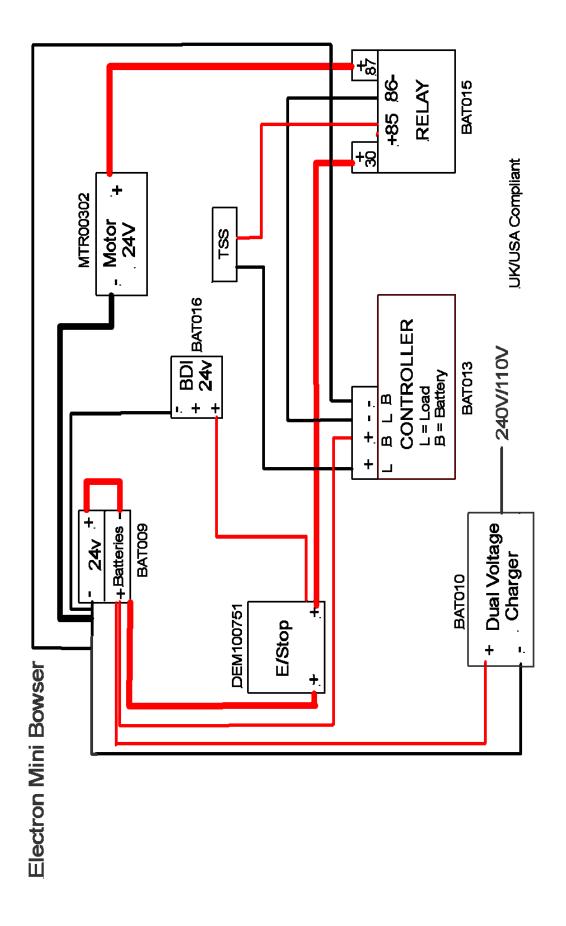


Join Brown and Blue to Switch and Green/Yellow to Switch

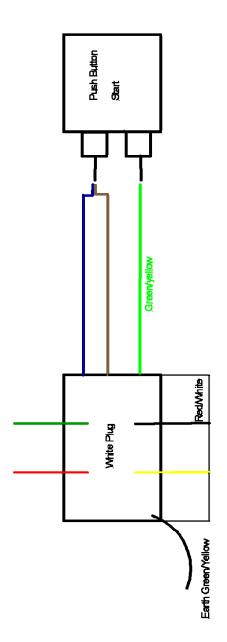
Single Earth

Blue to Green Brown to Red/Mrite Green/Yellow - Red Green/Yellow - Yellow





Push Button Start Electrical Wiring for Diesel Machines



Join Brown and Blue to Switch and Green/Yellow to Switch

Single Earth

Blue to Green Brown to Red/Mrite Green/Yellow - Red Green/Yellow - Yellow

WARRANTY

This warranty covers the cost of all replacement parts and labour charges incurred, but does not cover the cost of transport or carriage. It is the owners responsibility to return the machine to a service depot or pay the travelling expenses of a engineer to attend. Demon Internationals decision in warranty matters is final and binding.

Demon International Ltd, undertake to repair or replace at their discretion, any component which may fail due to a manufacturing fault within a period of 12months from the date of purchase, provided that any fault or damage was not sustained by;

- A Lack of regular and proper maintenance, user negligence, misuse, or damage caused by ice or frost.
- B The effects of contaminated fuel or water, the use of non-approved chemicals, or an in sufficient or unsuitable electrical supply.
- C The effects of un-authorised modification and use.
- D Compression damage to high pressure hose. (Hoses are warranted for one month only)
- E Worn out items considered wear and tear.

<u>Parts which may or may not wear out during the first year and which are considered service items which will need replacing from time to time:</u> High pressure nozzle, lance, trigger, hoses, fuel nozzle, fuel filter, piston seals, valves, unloader seats and seals, water filter, non-return valve, chemical barbs, chemical pipes, and pump oil seals.

It is the owners responsibility to ensure the pressure washer is kept in a safe and suitable environment and any faults reported by operatives to be rectified at the earliest possible date.

It is the operators responsibility to check the pressure washer for any faults and report them immediately, and to use the pressure washer in accordance with the manufacturers specifications and guidelines.

Demon International Ltd, undertake to use the highest quality components available during manufacture, but can not be held responsible for any undue consequence arising from the use of their pressure washers.

This warranty is given the original purchaser only and is not transferable without the fully authorized and written consent of Demon International Ltd.

The 3 Year Structural Warranty refers to all Demon fabricated structural parts, but this does exclude the Boiler coil.

Warranty Procedure

End Users

If your machine develops a problem:

- 1. Phone Demon for advice with the model and serial number to hand.
- 2. Describe fully the problem as best you can.
- 3. If the problem cannot be resolved over the phone then the machine can be booked in for repair and if the faults are covered by the warranty the repair will be carried out free of charge.
- 4. If you cannot bring the machine in for repair then we will despatch an engineer. If the fault is covered by the warranty then we will not charge for labour or spares used, however the transport charge will be payable weather or not the repair is warranty.

Hire Centres and Dealers

If your machine develops a problem:

- 1. Phone Demon for advice with the model and serial number to hand.
- 2. Describe fully the problem.
- 3. We will advise you on the best course of action, however if parts are required you must raise a purchase order number to cover the parts. When the parts are fitted they must be returned for examination before a credit note is issued.
- 4. If you are unable to repair the machine then we will despatch an engineer to carry out the repair. We will need a purchase order to cover the cost of transport to and from the site and for parts and labour if the repair is not covered under the warranty.
- 5. If required Demon will arrange for a carrier to collect a damaged machine, if the warranty claim is valid we will pay this cost, if not it will be charged to the customer.

For parts warranty ring Demon and request a warranty claim form faxed to you. This form must accompany any returned parts.

Notes:

You will not invalidate the warranty by investigating faults and repairing them yourself providing you follow our advice. Hire Centres and Dealers are expected to carry out all repairs themselves with Demon crediting faulty parts upon receipt and inspection.

Spare parts fitted to machines are guaranteed for 1 month only or the remainder of the warranty period whichever is longer.



Nozzles - you can't get pressure without one!

How do I know which nozzle I have?

Look at this part of the nozzle and it will have a four or five digit number which gives the angle of spray as the first two digits. The next two or three numbers are the size. (i.e. 25045 is 25° spray angle with 045 size aperture.)









Pressure starts and ends at the nozzle. The volume of water pushed down the hose and forced through the small hole determines the pressure on the gauge. Try taking the nozzle out and then pulling the trigger. You get virtually no pressure registering on the gauge.

The golden rule when diagnosing a loss of pressure is **to start at the nozzle** and work back to the pump. Example: a new Typhoon is delivered to your branch and is left in the workshop for a few days until a hire comes up. The lance gets pinched to go out with one of your other pressure washers so you search around for something to use and find a lance that will do. Unfortunately it came from a petrol pressure washer and now the Typhoon will only do 1500psi. It must be Demon's fault. Get them to dash out and sort it out, must be warranty! No its the nozzle. An 055 fitted to a petrol pressure washer will only give 1500psi when used on a Typhoon. (This has happened!)

Example: I can't check that the right nozzle is fitted because the numbers are worn away. If you can't read the number then the nozzle is old a probably worn out. Fit a new one and see what pressure you get. (All the lances are now colour coded)

Model	Flow	Pressure	Nozzle	Colour
Storm 1 & 2	11 litres	1500 psi	25045	Blue
Storm Freestanding/ Wallmounted 1	11 litres	1500 psi	25045	Blue
Storm Freestanding/ Wallmounted 4	15 litres	2900 psi	2505	Red
Storm 500	15 litres	7000 psi	2505	Red
Tempest 1 & 3 Auto inc Cabinet	11 litres	1500 psi	25045	Blue
Tempest 4 Auto inc Cabinet	15 litres	2900 psi	2505	Red
Hurricane P1	11 litres	1500 psi	25045	Blue
Tornado & Hurricane P2	13 litres	2200 psi	25045	Blue
Tornado & Hurricane P4 & D1ES	15 litres	2900 psi	2505	Red
Mini-Bowser P1	11 Litres	1500 psi	25045	Blue
Mini-Bowser P2	13 Litres	2200 psi	25045	Blue
Typhoon 1, 2, P4 & Evolution Models	15 litres	2900 psi	2505	Red

Demon Technical Support 01752 - 690690

Lance and Machine Colour Codes

Part Number	Description	Storm	Wall	Hurricane	Tempest Inc Cabinet	Typhoon	Evolution	Tornado & Mini-Bowser
DEM10031B	Cold Water Lance 045 Blue	Storm 1 & 2, FS1	WM1	P1 & P2	N/A	W/A	N/A	P1 & P2
DEM10031R	Cold Water Lance 05 Red	FS4	WM4	P4 & D1	N/A	N/A	W/N	P4 & D1
DEM10032B	Hot Water Lance 045 Blue	N/A	N/A	N/A	Tempest 1, 3 & 4 (13.17 pump)	N/A	N/A	N/A
DEM10032R	Hot Water Lance 05 Red	N/A	N/A	N/A	Tempest 4 (15.20 Pump)	Typhoon 1, 2 & P4	Evo 2	N/A



I can't get the pressure to where it used to be – where do I start?



Well by now you should know to check the nozzle - assuming that is correct and you still have no or low pressure the golden rule is to connect the pump to the mains water supply - whichever machine you are testing start with a good mains feed.

- 1. With the gun and lance connected turn the tap on can you see a leak? If so there is your problem, if water can leak out air can get in and the pump won't produce pressure simple as that. (Leaks from underneath the pump are either worn seals or a cracked piston strip to find out which.)

 Remedy: Fix leak or replace seals or piston.
- **2.** Check enough flow of water can get into the pump. Make sure all the filters are clean. The new Tempest hot water machines have a fine filter which will remove most solids. All Demon machines are now double filtered. Have you checked both of them?

 Remedy: Strip and inspect filters.
- 3. There are no leak's what next? With the pump switched off pull the trigger, water will spray out. Keeping the trigger pulled switch the pump on, if the water spray does not improve the valves are the fault. Either worn out or dirty. Strip and inspect. (The high pressure hose will also vibrate on the ground.)

 Remedy: Replace or clean valves.
- **4.** The valves are OK there are no leaks but it still won't get up to pressure what next? The unloader valve piston and seat are damaged or worn allowing some of the water to circulate around the cylinder head strip and inspect, you will see any damage.

Remedy: Strip unloader and inspect - replace damaged parts.

- 5. My cold water pressure washer does not feel as powerful as it used to be but the pressure gauge shows the correct pressure. What causes this? The chemical pick-up has a nozzle of 1.8mm or 2.0mm size and can get partially blocked. This will allow some but not all of the water to flow to the lance. Remedy: Strip and remove the blockage.
- **6.** The pressure remains high even when I let go of the trigger and the engine or motor is struggling or stalling. The non- return valve in the unloader is damaged or jammed.

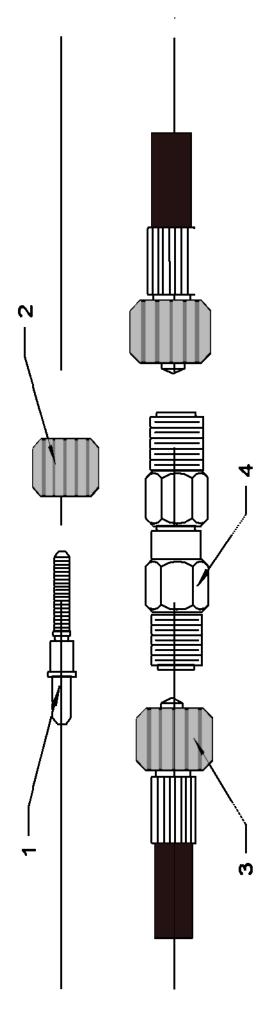
 Remedy: Strip and clean or replace.

Demon Technical Support 01752 - 690690

Cold Water Lance

	100	COLD WATER LANCES	
Pos	Part No	Description	Qty
1	N26001/1504	Nozzle P1	1
1	N26001/15045	Nozzle P2	1
1	N26001/1505	Nozzle P4 & D1ES	1
2	MTM90040	Adjustable Nozzle	1
8	DEM10031B	QR Lamce P2	1
3	DEM10031Y	QR Lance P1	1
3	DEM10031R	QR Lance P4 & D1ES	1
4	DEM10030	QR Trigger	1
5	MTM70012	MVG Coupling	1

High Pressure Hoses

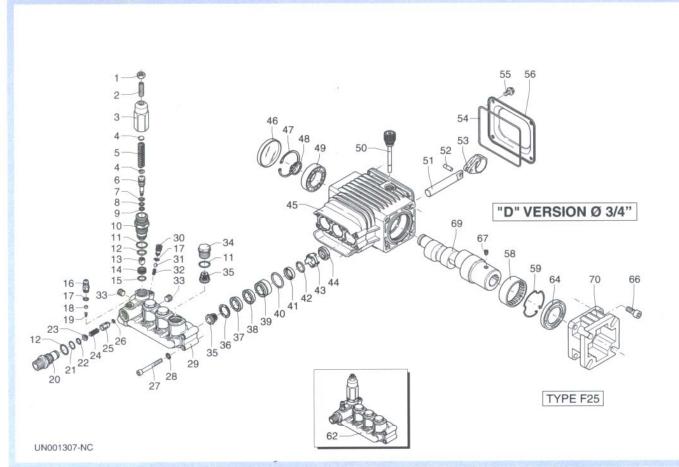


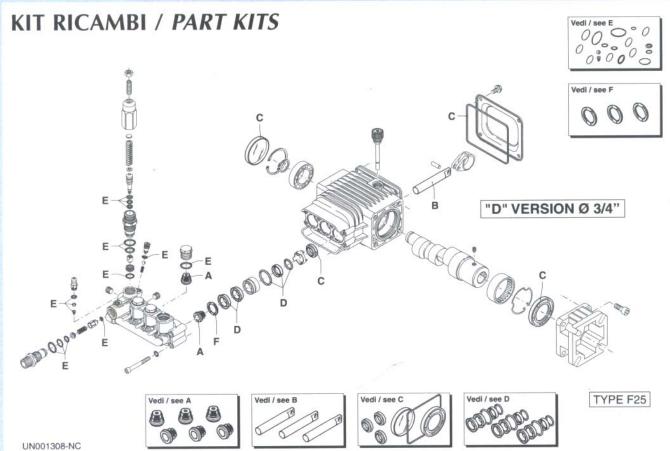
1.	Hose Insert	MV00490 (items 1 & 2)
2.	Nut	
3.	High Pressure Hose	ннооозому6
4.	Hose Joiner	MV00500
	Alternative Hose Lengths	ngths
	15 Metre	ннооозомус
	30 Metre	НН00100МVG

RSV

 $3400_{\text{\tiny RPM}}$ Ø 3/4''







RSV §D 3400_{RM} Ø 3/4"



Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / <i>See</i>	Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See
1	1980300	Dado M 6	Nut	1		43	2760310	Distanziale	Spacer	3	
2	2760420	Grano M 6X12	Grub screw	1		44	1260460	Anello tenuta	Seal	3	
3	1980540	Inserto manopola	Handle insert	1		45	2760010	Corpo pompa	Pump body	1	
4	1980220	Piattello molla	Plate spring	2		46	1266740	Cappellotto chiusura	Cap	1	
5	2760410		Spring	1		47	1260790	Anello seeger Øi 52	Circlip	1	
6	2760400	Pistone valvola	Valve piston	1		48	1780550	Anello elastico	Snap ring	1	
7	2260100	OR Ø 6,02x2,62	0-Ring	1		49	2760340	Cuscinetto	Bearing	1	
8	660190	OR Ø 6,07x1,78	0-Ring	1		50		Tappo olio	Oil cap	1	
9		Anello antiestrusione	Ring	1		51	2760040		Piston	3	
10	2760050	Guida pistone	Piston guide	1		52		Spinotto	Piston pin	3	
11		OR Ø 15,6x1,78	0-Ring	4		53		Biella alluminio	Alluminium con rod	3	
12		OR Ø 12,42x1,78	0-Ring	2		54		OR Ø 101,27x2,62	0-Ring	1	
13		Otturatore by pass	By-pass jet	1		55	802190	Vite TE M 6x12	Screw	4	
14	2760090		Seat	1		56		Coperchio posteriore	Rear cover	1	
15		OR Ø 11,11x1,78	0-Ring	1		58		Cuscinetto	Bearing	1	
16		Portagomma	Hose tail	1		59		Anello elastico	Snap ring	1	
17		OR Ø 4,48x1,78	0-Ring	2		62		Prem. testa pompa	Pump head pre-ass.	1	
18	1250280		Ball	1		64		Anello tenuta	Seal	1	
19	1560520	12-4 State (12-14)	Spring	1		66		Vite TCEI M 8x20	Screw	4	
20		Iniettore detergente	Detergent injector	1		67		Grano M 6	Grub screw	1	
21		OR Ø 12x1	0-Ring	1		69		Albero ecc. cavo	Hollow shaft	1	0
22		OR Ø 9x1	0-Ring	1				Albero ecc. cavo	Hollow shaft	1	•
23		Inserto iniettore	Injector insert	1		70	1780580	Flangia mot.scoppio	Gas engine flange	1	Type F 25
24	2760200		Spring	1							
25		Otturatore	Jet	1							
26		OR Ø 4x2,5	0-Ring	1							
27		Vite TCEI M 6x50	Screw	8							
28		Rondella	Washer	8							
29	2760020	71.5172/107417	Head	1							
30		Tappo ez-start	Ez-start plug	1							
31	1982240	29/328/Jev	Ball	1							
32	1981800		Spring	1							
33		Tappo 1/4" G conico	Plug	2							
34		Tappo valvola	Plug	3							
35		Valvola completa	Complete valve	6							
36		Anello appoggio	Support ring	3							
37		Guarnizione	Gasket	3							
38		Anello antiestrusione	-	1							
39		Guida pistone	Piston guide	3							
40		OR Ø 23,52x1,78	0-Ring	3							
41		Guarnizione	Gasket	3							
42	640070	OR Ø 13,95x2,62	0-Ring	3							

KIT RICAMBI **PART KITS**

LEGENDA:

val	「2186 vole <i>lves</i>	pis	187 ø 15 toni <i>tons</i>	tenut	Γ 2188 te olio seals	tenute	189 ø 15 acqua r <i>seals</i>
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty
35	6	51	3	44	3	37	3
				46	1	38	3 3 3
				54	1	40	
				64	1	41	3
						42	3 3

Ø	15	Ø	1	5

O Per / For

• Per / For RSV 2.5 G25 RSV 3 G25

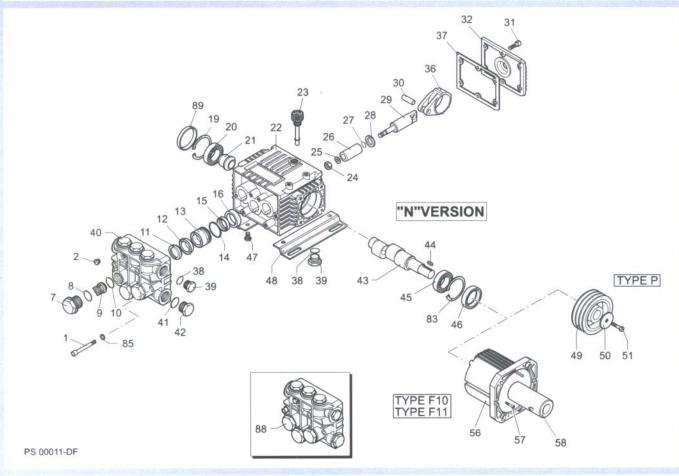
	7 1 17 8 1 18 9 1 19 11 4 21 12 2 22			anelli a	191 ø 15 ppoggio <i>rt rings</i>						
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty				
7	1	17	2	36	3						
8	1	18	1	MONTH.							
9	1	19	1								
11	4	21	1								
12	2	22	1								
15	1	26	1								

	C	2190 R Rings		anelli a	191 ø 15 ppoggio rt rings		
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty
7	1	17	2	36	3		
8 9	1	17 18 19	1	ACTION.			
9	1	19	1				
11	4	21	1				
12	2	22	1				
15	1	26	1				

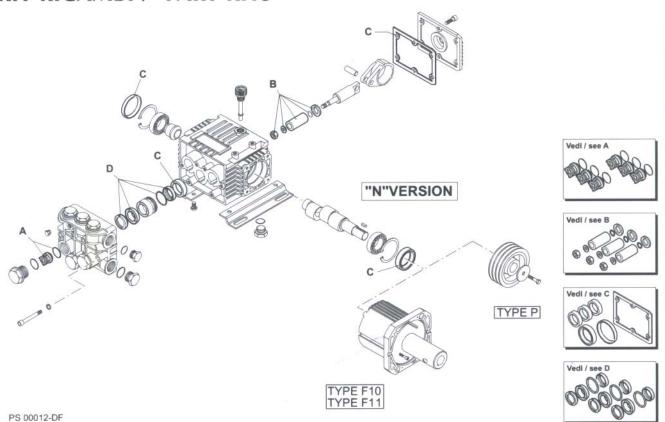
XT

N 1450 RPM





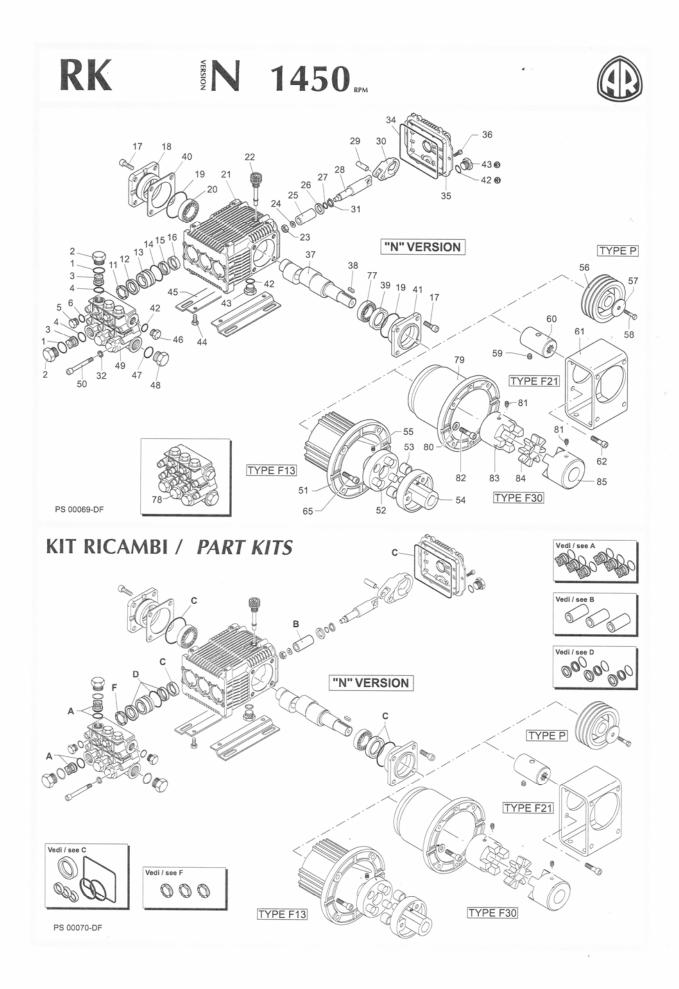
KIT RICAMBI / PART KITS



			XT	1	450		
Pos	Code No	Description	Qty	Pos	Code No	Description	Qty
1	AR1322730	Screw	6	40	AR1320020	Pump Head	1
2	AR620301	Plug	1	41	AR180101	O Ring	1
7	AR1260162	Plug	6	42	AR820361	Plug	1
8	AR960160	O Ring	6	43	AR1260200	Crankshaft	1
9	AR1269050	Complete Valve	6	43	AR1320260	Crankshaft	1
10	AR880830	O Ring	6	44	AR1380520	Key	1
11	AR1320340	Support Ring	3	45	AR1320370	Bearing	1
12	AR1260220	Gasket	3	46	AR1260750	Seal	1
13	AR1320351	Piston Guide	3	47	AR1260470	Screw	4
14	AR1260420	O Ring	3	48	AR1263890	Base	2
15	AR1260450	Gasket	3	83	AR1260790	Circlip	1
16	AR1260460	Seal	3	85	AR1381550	Washer	6
19	AR1260790	Circlip	1	88	AR1269222	Pump Head pre-ass	1
20	AR1320370	Bearing	1	89	AR1266740	Сар	1
21	AR1320330	Bushing	1				
22	AR1320010	Pump Housing	1				
23	AR880130	Oil Plug	1				
24	AR1260110	Nut	3				
25	AR1260100	Washer	3				
26	AR1260210	Piston	3				
27	AR480480	O Ring	3				
28	AR1260091	Spacer	3				
29	AR1260070	Guiding Piston	3				
30	AR1260080	Piston Pin	3				
31	AR1260760	Screw	6				
32	AR1269101	Complete Cover	1				
32	AR1320910	Complete Cover	1				
36	AR1260060	Con Road	3				
36	AR1320140	Con Road	3				
37	AR1260040	Gasket	1				
38	AR740290	O Ring	2				
39	AR1980740	Plug	2				

ARKIT	Γ1864	ARKIT	2629	ARKIT1872		
Valve	e Kit	Pisto	n Kit	Oil Seal Kit		
Pos	Qty	Pos	Qty	Pos	Qty	
9	6	24	3	16	3	
10	6	25	3	37	1	
		26 3		46	1	
		27	3	89	1	
			3			

ARKIT	ARKIT1874									
Water Seals										
11	3									
12	3									
14	3									
15	3									



os.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See	Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / Se
1	960160	OR Ø 17,86x2,62	0-Ring	6		10	1380120	Spessore 0,10 mm	0,10 mm shim	1÷3	
Λ	960090	Тарро	Plug	6	RK	AIN		Spessore 0,20 mm	0.20 mm shim	1÷3	
7		Tappo Inox	Plug	6	RK H⇔	ΔШ		Spessore 0,25 mm	0,25 mm shim	1÷3	-
4		Tappo Nikel	Plug	6	RK H	ŤV		Spessore 0,05 mm	0,05 mm shim	1÷3	
3	1389051		Complete valve	6		41		Supp. cusc. aperto	Open bearing sup.	1 1	
4	880830	OR Ø 15,54x2,62	0-Ring	6		42		OR Ø 14x1,78	0-Ring	3	
E		Tappo 1/4"G	Plug	2	RK	43		Tappo 3/8"G Ottone	3/8"G plug	2	8
5		Tappo 1/4"G Nikel	Plug	2	RK H - H	44		Vite TE M 8x10	Screw		8
6		OR Ø 10,82x1,78	0-Ring	2	TIK II - II -	45	1380141		Base	4 2	
44		Anello appoggio	Support ring	3	Ø18 ○□●■			Tappo 3/8"G Ottone	3/8"G plug		DIV
111		Anello appoggio	Support ring	3	Ø20 ★	46		Tappo 3/8"G Nikel		1	RK
Ш		Anello appoggio	Support ring	3	Ø20 × Ø22 ★	47			3/8"G plug	1	RK H - H⊲
iA		Guarnizione	Gasket	3	Ø18 ○□ ●■			OR Ø 17,5x2	0-Ring	1	DI
19		Guarnizione	Gasket	3	020 ☆	48		Tappo 1/2"G Ottone	Plug	1	RK -
14		Guarnizione	Gasket	3		10		Tappo 1/2"G Nikel	Plug	1	RK H - H⊲
IA		Guida pistone	Piston guide	3	Ø22 ★ Ø18 ○□●■	M		Testa pompa	Pump head	1	Ø18 RK
13		Guida pistone				/IU		Testa pompa	Pump head	1	Ø18 RK H-I
IJ		Guida pistone	Piston guide	3	Ø20 ☆ Ø22 ★	٩V		Testa pompa	Pump head	1	Ø20-22 R
14		OR Ø 31,47x1,78	Piston guide		022 🛪	-		Testa pompa	Pump head	1	Ø20-22 RK
		Guarnizione	0-Ring	3	a40 0 = 0 =	50		Vite TCEI M 8x70	Screw	8	
15		Guarnizione	Gasket	3	Ø18 ○□●■	51		Flangia motore el.	El. motor flange	1	B3/B14
Ü		Guarnizione	Gasket	3	Ø20 ☆	52		Semigiunto pompa	Pump coupling	1	
			Gasket	3	Ø22 ★	53	1321670		Bushing	6	
16		Anello tenuta	Seal	3		54		Semigiunto motore	Motor coupling	1	Ø 28 mm
17		Vite TCEI M 8x16	Screw	8		55		Grano M 6x10	Grub screw	1	
18		Supp. cusc. chiuso	Closed bearing sup.	1		56	1320270		Pulley	1	2A Øe 120mr
19		OR Ø 59,99x2,62	0-Ring	2		วท	1380890		Pulley	1	3A Øe 120mr
20		Cuscinetto	Bearing	1			1380900		Pulley	1	4A Øe 138mr
21		Corpo pompa	Pump housing	1		57	780230		Washer	1	
22		Tappo carico olio	Oil cap	1		58		Vite TE M 6x18	Screw	4	
23		Dado M 8	Nut	3		59	800750		Grub screw	1	
24		Rosetta Ø 8,1	Washer	3		60	1380410	Giunto	Coupling	1	
05		Pistone in ceramica	Ceramic piston	3	Ø18 🔾 🗆 🗪 🔣	61	1380420	Flangia motore	Motor flange	1	
/:)		Pistone in ceramica	Ceramic piston	3	Ø20 ☆	62		Vite TCEI M 8x25	Screw	4	
4		Pistone in ceramica	Ceramic piston	3	022 ★	65		Vite TCEI M 8x30	Screw	4	
26		Disco separatore	Spacer	3		77	840370	Cuscinetto	Bearing	1	
27		OR Ø 7,66x1,78	0-Ring	3				Prem. testa pompa	Pump head assembly	1	Ø18 RK
28		Pistone di guida	Guiding piston	3		70		Prem. testa pompa	Pump head assembly	1	Ø18 RK H
29	1380060		Piston pin	3		W	1389271	Prem. testa pompa	Pump head assembly	1	Ø18 RK H
30		Biella alluminio	Alluminium con-rod	3		IX	1389208	Prem. testa pompa	Pump head assembly	1	Ø20 RK
	1383020	Biella bronzo	Bronze con-rod	3		IIX	1389212	Prem. testa pompa	Pump head assembly	1	Ø20 RK H
31	1080401	Anello	Ring	3		III		Prem. testa pompa	Pump head assembly	1	Ø22 RK
32	1381850	Rondella	Washer	8		IV		Prem. testa pompa	Pump head assembly	1	Ø22 RK H
34	1780510	OR Ø 106x3	0-Ring	1		79		Flangia motori B3/B14	El. motor flange	1	B3/B14
35	1789010	Coperchio completo	Complete cover	1		80		Rondella Øi 8.5	Washer	1	23/014
36	1343510	Vite TCEI M 6x14	Screw	6		81		Grano M 6x10	Grub screw	2	
19	2280100	Albero eccentrico	Crankshaft	1	0	82		Vite TCEI M 8x25	Screw	4	
11	2280080	Albero eccentrico	Crankshaft	1	o .	83		Semigiunto pompa	Pump coupling	1	
M		Albero eccentrico	Crankshaft	1	• *	84		Anello elastico	Ring	1	
11		Albero eccentrico	Crankshaft	1	■ ☆	85		Semigiunto motore	Motor coupling	1	
38	1380520		Key	1		00					
39		Anello tenuta	Seal	1			Cor	npreso nel cod. 1789	010 / Part of part nº 17	789010	0

KIT RICAMBI - PART KITS

A=KIT 2864 valvole valves		valvole pistoni			B=KIT 27	758 ø 20	T 1855 te olio seals
Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	
6	25	3			16 19 34 39	3 2 1 1	
	Q.ty	vole pis pis pis Q.ty pos. Q.ty pos. 6 25	vole ves pistoni pistoni pistoni pistoni postani Q.ty pos. Q.ty 6 25 3	Description Description	Description Description	Description Distant Distant	

	e acqua r seals	D=KIT 18 D=KIT 18 D=KIT 18	887 ø 20		ppoggio rt rings	F=KIT 1829 ø 18 F=KIT 1815 ø 20 F=KIT 1816 ø 22		
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	
12	3			11	3			
14	3							
15	3							

LEGENDA:

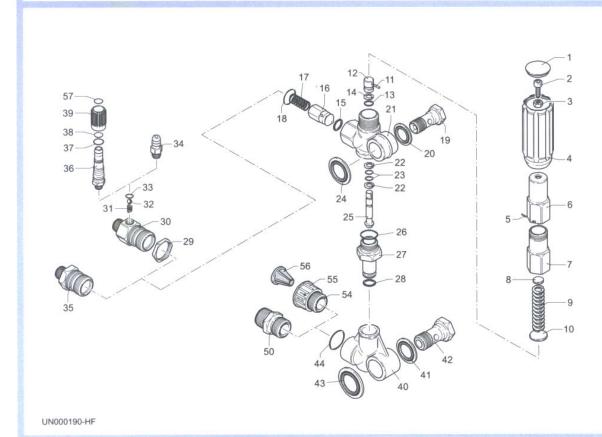
Ø 18	Ø 18	Ø 20	Ø 22
O Per / For	□ Per / For	☆ Per / For	* Per / For
RK 11.14	RK 13.12	RK 18.12	RK 21.10
RK 11.20 H	RK 13.17	RK 18.16 H	RK 21.15 H
RK 11.25 H∞	RK 13.20 H	RK 18.20 H	RK 21.20 H
Per / For	Per / For		
RK 15.15	RK 14.16		
RK 15.20 H			
RK 15.25 H∞	OLTRE 250 bar		
RK 15.28 H∞	OVER 3600 psi		

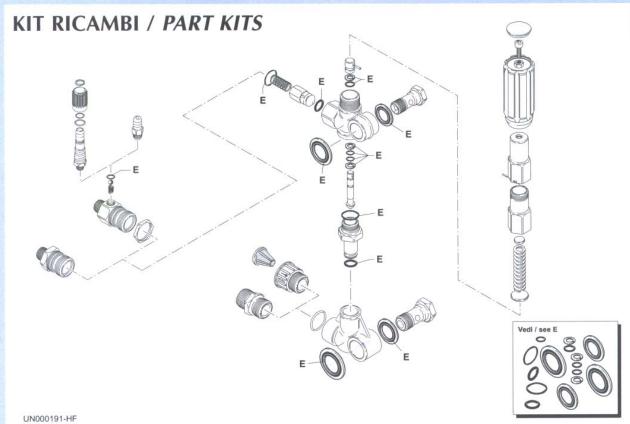
PARTI SPECIALI IN **VITON** SPECIAL PARTS

000000	Cod.	Denominazione	Q.tà
	Part n°	Description	Q.ty
0,0000	2809	Tenute acqua / Water seals ø18	1
	2810	Tenute acqua / Water seals ø20	1
	2811	Tenute acqua / Water seals ø22	1

GYMATIC 3/B







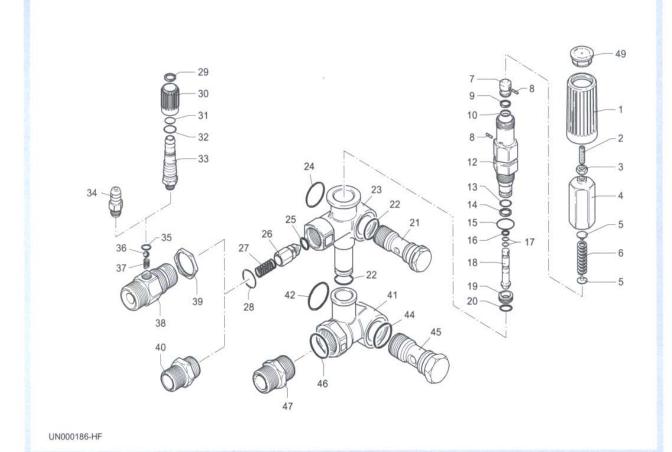
		GYMATIC	3B				
Pos	Part No	Description	Qty	Pos	Part No	Description	Qty
1	AR1560580	Knob Plug	1	40	AR1540020	Suction Fitting	1
2	AR540290	Screw	1	41	AR1540120	Washer	1
3	AR1660210	Nut	1	42	AR1540090	1/2"G Fitting	1
4	AR1560400	Handle	1	42	AR1540200	Fitting ½" NPT	1
5	AR1080070	Pin	1	43	AR1560290	Washer	1
6	AR1560420	Adjusting Screw	1	44	AR480440	O Ring	1
7	AR1560410	Spring Guide	1	50	AR1540050	1/3" Gas Fitting	1
8	AR1560440	Plate	1	54	AR1560310	Fitting	1
9	AR1560350	Spring	1	55	AR1560300	Ring Nut	1
10	AR1080610	Spring Plate	1	56	AR1266330	Filter	1
11	AR1080660	Pin	1				
12	AR1080540	Upper Piston	1				
13	AR391000	O Ring	1				
14	AR1080640	Back up Ring					
15	AR1560150	O Ring					
16	AR1560100	Jet					
17	AR1560140						
18	AR180101	O Ring					
19		Fitting 3/8" NPT	1				
21	AR1560010	Valve Housing	1				
22	AR1080550		2				
23	AR480480	O Ring	2				
24	AR1560280		1				
25	AR1560320	Lower Piston	1				
26	AR880270	O Ring	1				
27	AR1560051	By pass adaptor	1				
28	AR390080	O Ring	1				
29	AR1560510	Nut	1				
30	AR1560530		1				10
30	AR1560500	Fitting F	1				
31	AR1560520	Spring	1				
32	AR1250280	Ball	1				
33	AR480480	O Ring	1				
34	AR1560490	Hose Tail	1				
35	AR1560110	~	1				
35	AR1560111	Fitting ½"G 3/8"G	1				

F = ARKIT 2611

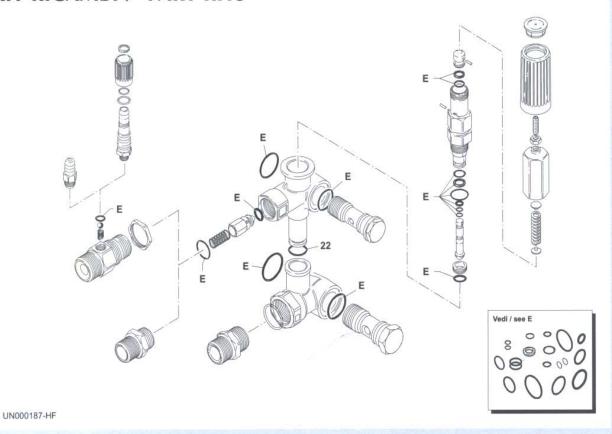
Pos	Qty	Pos	Qty
13	1	24	1
14	1	26	1
15	1	28	2
18	1	33	1
22 23	2	41	1
23	2	43	1

MINIMATIC 4/B





KIT RICAMBI / PART KITS



MINIMATIC 4/B



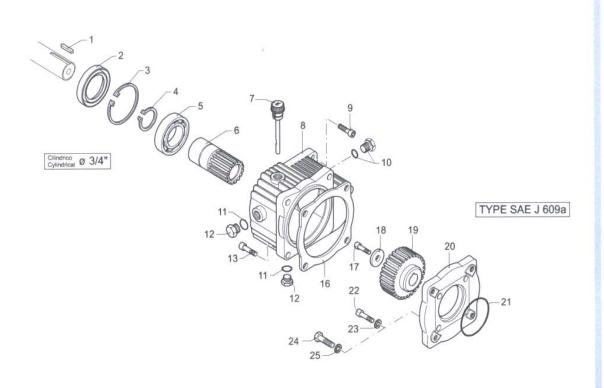
Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See	Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See
1	1981780	Manopola	Handle	1		40		Niples 3/8" G	Adaptor 3/8" G	1	•
2	1540560	Grano M6x20	Grub	1				Niples 3/8" NPT	Adaptor 3/8" NPT	1	•
3		Dado M6	Nut	1	į į	41		Corpo by-pass	By-pass housing	1	3/8" G
4	1980390	Inserto manopola	Knob insert	1				Corpo by-pass	By-pass housing	1	3/8" NPT
5		Piattello molla	Spring plate	2		42		OR Ø 23,47x2,62	0-Ring	1	
6	1271070	200000000000000000000000000000000000000	Spring	1		44		OR Ø 17,17x1,78	0-Ring	1	
7		Pistone superiore	Upper piston	1		45		Vite 1/2" G	Thread screw	1	Ontional
8	1080070	Control of the Contro	Pin	2		46		OR Ø 17,13x2,62	0-Ring	1	Optional Optional
9		Anello antiest.	Back-up ring	1		47 49		Raccordo Tappo manopola	Fitting Knob plug	1	Optional
10		OR Ø 7,66x1,78	0-Ring	1	1/	49	1981770	тарро тапорота	Krioo piug	1.	
12		Guida pistone	Piston Guide 0-Ring	1		9					
13		OR Ø 14x1,78	0-Ring	1							
14 15		OR Ø 8,73x1,78 OR Ø 15,54x2,62	0-Ring	1							
16		Anello antiest.	Back-up ring	1		8					
17		OR Ø 2.90x1.78	0-Ring	2							
18		Pistone inferiore	Lower piston	1							
19		Sede valvola	Valve seat	1		9					
20		OR Ø 9x1	0-Ring	1							
		Vite 3/8" G	Thread screw	1	Ottone/Brass	Ŋ.					
21	1540430	Vite 3/8" G Inox	Thread screw	1	Inox/Steel	ž.					
22	390080	OR Ø 11,91x2,62	0-Ring	2	11.00	ř					
23	1540510	Corpo valvola	Valve housing	1		8					
24	1140450	OR Ø 20,24x2,62	0-Ring	1							
25		OR Ø 4x2,5	0-Ring	1							
26		Otturatore	Jet	1		1					
27	1080091	Committee of the commit	Spring	1							
28		OR Ø 12,42x1,78	0-Ring	1							
29	1560660		Ring	1	A						
30		Manopola reg.det.	Detergent reg. knob O-Ring	1	A						
31 32		OR Ø 6,75x1,78 OR Ø 8,73x1,78	0-Ring	1							
33	N. 10 (2000)	Portagomma	Hose tail	1	<u> </u>						
34	1616 17 17 17 17 10 15	Portagomma	Hose tail	1	î						
35	1,000	OR Ø 4,48x1,78	0-Ring	1							
36	1250280		Ball	1							
37	1560520		Spring	1							
AA		Raccordo 3/8" G	Fitting 3/8" G	1	Ø 2 ■ 🛦						
')()		Raccordo 3/8" G	Fitting 3/8" G	1	Ø 2,3 🔳 🛦						
.10	1540610	Raccordo 3/8" NPT	Fitting 3/8" NPT	1	Ø 2 ■ 🛦						
VV	1540620	Raccordo 3/8" NPT	Fitting 3/8" NPT	1	Ø 2,3 🔳 🛦						
39	1540300	Controdado	Nut	1							

KIT RICAMBI PART KITS

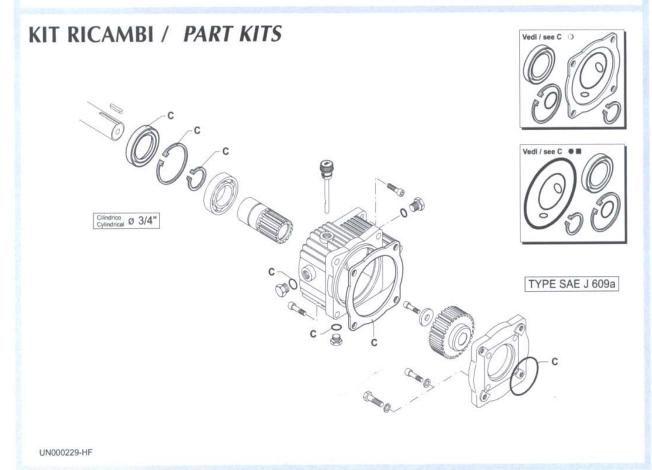
LEGENDA:

	TAKI KIIS							EEGENDAT				
E=KIT 2812 OR <i>O-Rings</i>							Per / For MINIMATIC 4/B	Per / For MINIMATIC 4/B+ID	▲ Per / For MINIMATIC 4/B+IDR			
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	MINIMATIC 47 B	MINIMAIN WOTE	Minimum, 47 D T I D N		
9	1	17	2	35	1							
10	1	20	1	42	1							
13 14	1	22 24	2	44	1							
15	1	25	1									
16	1	28	1									
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty					
		Black Control	The state of the s	NAME OF TAXABLE PARTY.								





UN000228-HF





Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See	Pos.	Cod.	Denominazione	Description	Q.tà Q.ty	Note Vedi / See
1		Linguetta	Key	1	Voui / Ooo		T CIT CIT			uniy	10017 000
2		Anello tenuta	Seal	1							
3	961790	Seeger Øi 68	Circlip	1							
4	320240	Seeger Øe 40	Circlip	1							
5		Cuscinetto	Bearing	1	f.) cr- cress, cress (1996)	}					
6		Pignone Ø 3/4"	Pinion	1	Z=23 ● ○						
100		Pignone Ø 3/4"	Pinion	1	Z=21 ■						
7		Tappo olio + OR	Oil plug + O-ring	1		1 1					
8		Scatola riduttore	Gear box	1							
9		Vite TCEI 5/16"	Screw	4							
10		Tappo 3/8"	Plug	1							
11		OR Ø 14x1,78	0-Ring	2	OH/D						
12		Tappo 3/8"G	Plug	2	Ottone/Brass						
13		Vite TCEI M 10x25 Guarnizione scatola	Screw Gasket	1	0						
16		OR Ø 107,67x1,78	0-Ring	1	•						
17		Vite TCEI M 6x18	Screw	1							
18		Rondella Tenuta	Washer	1							
1000		Ruota dentata	Gear	1	Z=45 ()						
10		Ruota dentata	Gear	1	Z=45 ●						
19		Ruota dentata	Gear	1	Z=47 ■						
		Flangia riduttore	Flange	1	0						
20		Flangia riduttore	Flange	1	0 H						
		OR Ø 53,65x2,62	0-Ring	1	0						
21		OR Ø 60x2,62	0-Ring	1	0 H						
22	780330	Vite TCEI M 6x20	Screw	4	0						
23	1341020	Rondella 6x10x1	Washer	4	0						
24	180430	Vite TE M 8x20	Screw	4	■ XM-XMA						
		Vite TE M 8x30	Screw	4	■ XRC-XRCA						
25	1260100	Rondella 8x13x0,50	Washer	4	0 H						

KIT RICAMBI PART KITS

LEGENDA:

C=KIT 2793 O tenute olio oil seals		tenut	525 ● ■ te olio seals	0			
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty
2	1	2	1				
3	1	3	1				
4	1	4	1				
11	2	11	2				
16	1	16	1				
21	1	21	1				

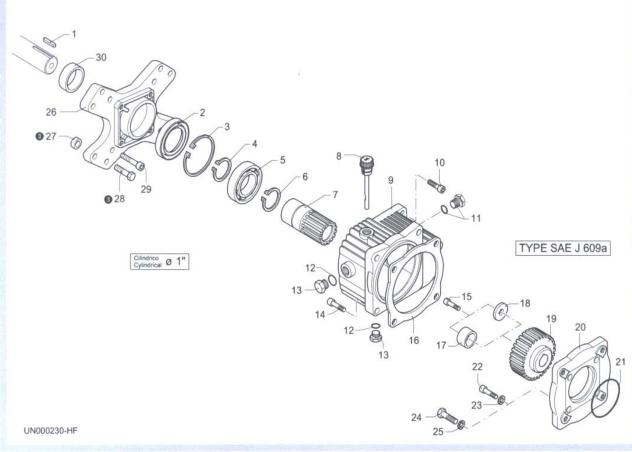
O Per / For	• Per / For
cop. 1694	сор. 1692
1:2	1:2
XT/XTA series	XM/XMA se

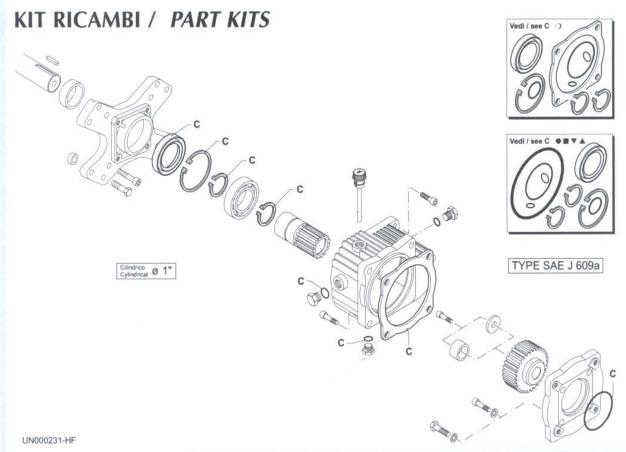
XRC/XRCAseries

٠	Per / For
	1:2
	XM series
	XRC series

pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty









os.	Cod. Part n°	Denominazione	Description	Q.tà	Note Vedi / See	Pos.	Cod.	Denominazione	Description	Q.tà	Note Vedi / Se
4	1.0000000000000000000000000000000000000	Chiavetta (8 HP)	Key	1	OOHVA		1,000,000				HA POPULATION OF THE PARTY.
		Linguetta (9-18 HP)	Key	1	OHYA						
2		Anello tenuta	Seal	1							
3		Seeger Øi 68	Circlip	1							
4		Seeger Øe 40	Circlip	1	1						
5		Cuscinetto	Bearing	1							
6		Seeger Øe 40	Circlip	1							
7		Pignone Ø 1" Z=23	Pinion	1	0 ● ▼						
		Pignone Ø 1" Z=21	Pinion	1							
8		Tappo olio + OR	Oil plug + 0-ring	1							
9		Scatola riduttore	Gear box	1							
10		Vite TCEI M 8x25	Screw	4							
11	U-2012 (CO. CO. CO. CO. CO. CO. CO. CO. CO. CO.	Tappo 3/8"	Plug	1							
12		OR Ø 14x1,78	0-Ring	2							
13		Tappo 3/8"G	Plug	2	Ottone/Brass						
14		Vite TCEI M 10x25	Screw	4							
15		Vite TCEI M 6x18	Screw	1		1					
100		Guarnizione scatola	Gasket	1	0						
16		OR Ø 107,67x1,78	0-Ring	1	OHVA						
17		Distanziale	Spacer	1	V A	10					
18		Rondella Tenuta	Washer	1	00						
		Ruota dentata Z=45	Gear	1	0						
101		Ruota dentata Z=45	Gear	1	• •						
19		Ruota dentata Z=47	Gear	1							
		Flangia riduttore	Flange	1	0						
20		Flangia riduttore	Flange	1	OHVA						
1000		OR Ø 53,65x2,62	0-Ring	1	0	3					
21		OR Ø 60x2,62	0-Ring	1	OHVA						
22		Vite TCEI M 6x20	Screw	4	0						
23		Rondella 6x10x1	Washer	4	0						
		Vite TE M 8x20	Screw	4	● ■ (XM)	i i					
24		Vite TE M 8x30	Screw	4	OHVA						
25		Rondella 8x13x0,50	Washer	4	OHVA						
26		Flangia motore	Motor flange	1	18/5						
27		Distanziale	Spacer	4	0						
28		Vite TE 3/8"	Screw	4	0						
29		Vite TCEI 5/16"	Screw	4							
30		Distanziale	Spacer	1	0 m \vee A						
						1		Per motori italiani	/ Italian engines or	ily	

KIT RICAMBI PART KITS

	tenut	2793 ① e olio seals		C=KIT 2525 ● ■ ▼ ▲ tenute olio oil seals				
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	
2	1	21	1	2	1	21	1	
3	1	60.00		3	1	200		
4	1			4	1			
6	1			6	1			

pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty

LEGENDA:

• Per / For cop. 1690	■ Per / For cop. 1689	▼ Per / For cop. 1697	▲ Per / For cop. 1698
1:2 XM/XMA series XRC/XRCAseries	1:2,24 XM series XRC series	XW/XWA series	XW series
O Per / For cop. 1693			
1:2,24 XT/XTA series			

EC DECLARATION OF CONFORMITY

We Demon International Ltd

Of Abbots Close, Lee Mill Industrial Estate, Ivybridge, Devon PL21 9GA

Declare that:

Equipment High Pressure Water Jet Machines

Model name/number

Serial number

Conforms to the relevant safety and health related requirements of the appropriate EC Directives. This declaration shall cease to be valid if modifications are made to the machine without our approval.

In accordance with the following EU Directives:

73/23/EEC The Low Voltage Directive – and its amending directives

89/336/EEC The Electromagnetic Compatibility Directive – and its amending directives

98/37/EEC The Machinery Directive – and its amending directives

2000/14/EC Noise Directive

Harmonised Standards Applied:

EN 292-1 & EN292-2 (now ISO:12100), EN 60335-2-79, EN55014-1, EN55014-2, EN 61000-3-2

Applied national standards and technical specifications:

DS EN 60335-2-79

Applied conformity evaluation method

Appendix V

Sound power level dB(A):

	Mini Bowser P1	Mini E P2	Bowser LPG	Mini Bowser P4	Mini Bowser D1	Storm Mini Bowser 1
Measured	83	83	82	83	88	80
Guaranteed	84	84	83	84	89	81

HAV - All triggers and lances have vibration levels below 2.5 m/s/s²

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all essential requirements of the Directives.

Signed: Martyn Walke Authority: Technical Director Date:

Technical Documentation Address: Abbots Close, Lee Mill Industrial Estate, Ivybridge, Devon PL21 9GA