

DEMON HURRICANE PRESSURE WASHERS OPERATOR MANUAL



Clemas & Co. Unit 5 Ashchurch Business Centre, Alexandra Way, Tewkesbury, Gloucestershire, GL20 8NB.

Technical Specifications

Hurricane P1

Engine Honda GX120 4HP@3600rpm

Pump AR RSV 3G25D + F25

Pressure 1500psi / 100

Flow 11.4lpm/ 2.5gpm

HP Nozzle 1505

Unloader Integrated Pump oil 10W/40

Noise

Hurricane P2 & P2 4Hire

Engine Honda GX200 6.5HP @3600rpm

Pump AR XT13.15

Pressure 2200psi/150Bar

Flow 13 lpm /2.9gpm

HP Nozzle 15045

Gearbox 2:1 Reduction

Unloader Minimatic4B ARMM4B/C

Pump Oil 10W/40
Gearbox oil EP90
Gearbox ARCRXT

Noise

Hurricane P4 & P4 HR

Engine Honda GX340 11HP @3600rpm

Pump AR RK15-20H

Pressure 2900psi / 200Bar

Flow 15 lpm / 3.3gpm

HP Nozzle 1505

Gearbox 2:1 reduction

Unloader Gymatic 3BARGM3B250

Pump oil 10W/40

Gearbox Oil EP90

Noise

Hurricane D1ES & D1ES HR

Engine Yanmar L100N 10HP @3600rpm

Pump AR RK15-20 H

Pressure 2900psi / 200Bar

Flow 15 lpm / 3.3gpm

HP Nozzle 1505

Gearbox 2:1 Reduction

Unloader Gymatic 3B ARGM3B250

Pump Oil 10W/40

Gearbox Oil EP90

Noise

		Kits for Hurric	ane machines		
	Valve	Piston	Oil	Water	Support Rings
Hurricane P1	ARKIT2186	ARKIT2187	ARKIT2188	ARKIT2189	ARKIT2191
Hurricane P2	ARKIT1864	ARKIT2629	ARKIT1872	ARKIT1874	
Hurricane P4	ARKIT1828	ARKIT2757	ARKIT1856	ARKIT1857	ARKIT1829
Hurricane D1ES	ARKIT1828	ARKIT2757	ARKIT2757	ARKIT1856	ARKIT1829

FAULT FINDER

FAULT	CAUSE	REMEDY
Machine stops suddenly	P1/P2/P4—low oil	check and top up oil
Or will not start.	D1—flat battery/fuse	Check/replace battery, replace fuse
Sudden pressure loss.	Water supply failed.	Check water supply.
	No chemical	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	Valves worn or	Clean/replace as required.
vibration.	blocked. Piston seals worn.	Replace.
	Pump sucking air.	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

SAFETY

Κ

keep them in the shade.

ı Water at high pressure is dangerous and can cause serious injury. This machine is to be used with great caution. Petrol is extremely flammable and explosive under certain conditions. Ш EXHAUST FUMES CONTAIN CARBON MONOXIDE – Inhalation of such fumes can KILL. Ш Diesel is flammable and harmful if swallowed. Always refuel in an area which is adequately ventilated. Α В DO NOT smoke when refueling. C Avoid overfilling. D Should fuel be spilt, wipe off any fuel spilt on machine or engine. Ε 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. Н Always ensure that the fuel cap is secure after refueling. Ī Keep the engine at least 3 metres or more away from any other equipment or Building. Take care not to get fuel on your clothing. If this happens – CHANGE your clothing J IMMEDIATELY. DO NOT start an engine when clothing has been contaminated with fuel.

Use only approved type containers for fuel. DO NOT stand them out in strong sunlight,

- 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 paticular 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.

PREPARATION

Water	Sup	nl	v:
· · · · ·	Jup	М.	у.

- 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 Attatch the high pressure hose to the pump connection.
- C Attatch 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 Adjust pressure regulator as required to obtain working pressure if required.
- E NOTE;:The high pressure water will cause the gun to "kick". Make sure you have a firm grip of gun and lance.
- F On completion of operation stop the engine.
- g. Operate lance trigger
- h. Turn "OFF" water supply
- i. Release residual pressure in gun and lance by operating trigger.

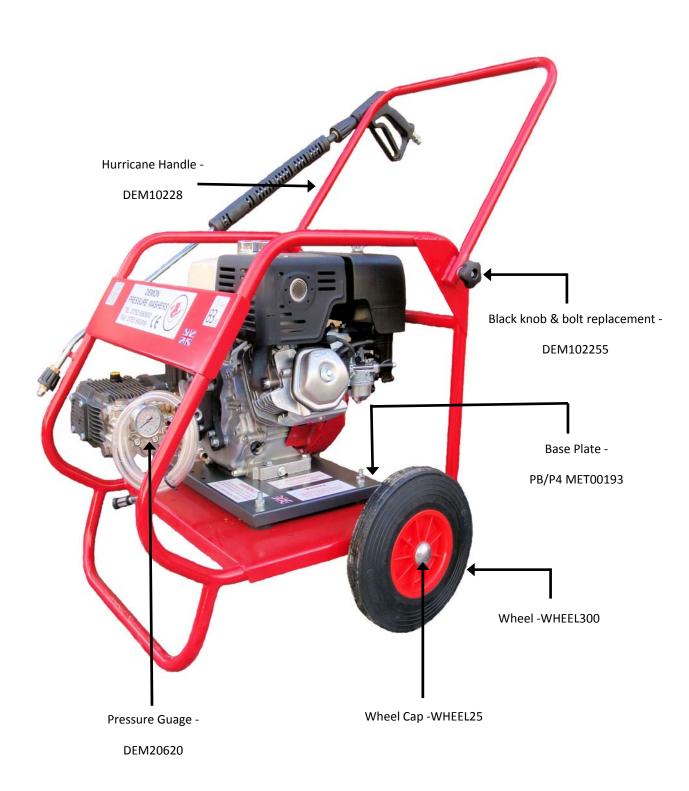
When using Cleaning Agents:

- 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.

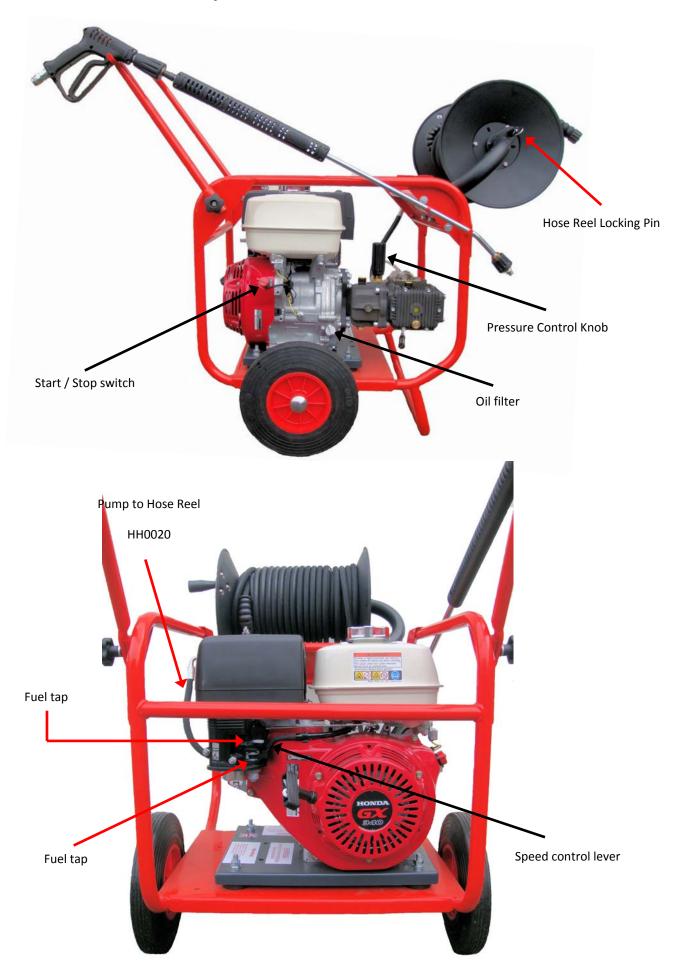
NOTE: CHEMICAL PICKUP ONLY OPERATES AT PRESSURES BELOW 250PSI.

OPEN LANCE VLAVE FULLY TO OBTAIN THIS PRESSURE.

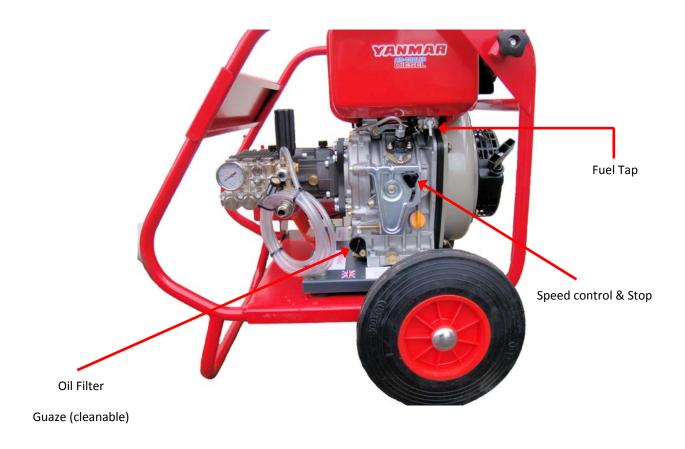
Hurricane - General Arrangement Petrol/Diesel & Electric Start

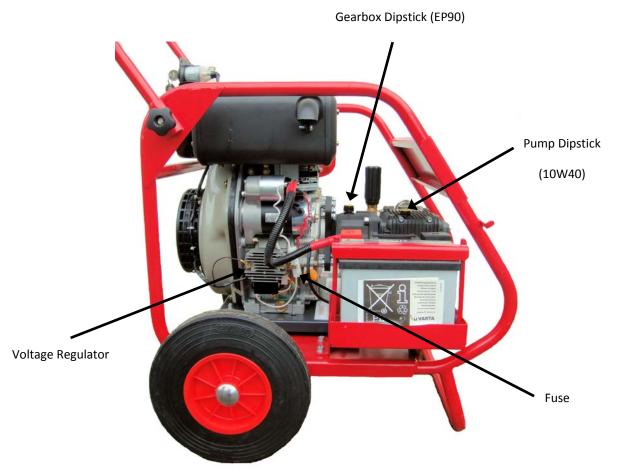


Demon Hurricane Range Arrangement Drawing— Petrol/Diesel Start with Hose Reel



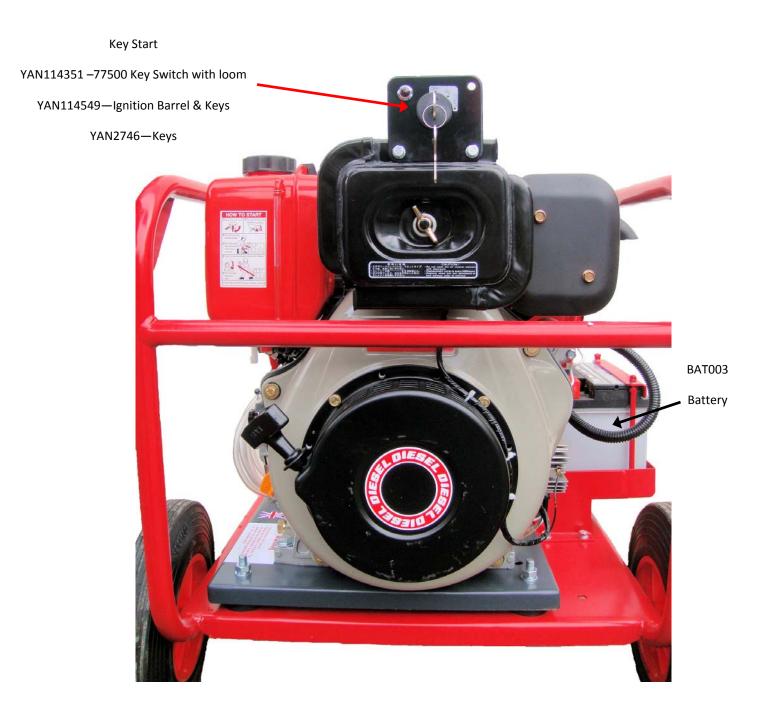
Demon Hurricane Range Arrangement Drawing— Electric Start





Demon Hurricane Range Arrangement Drawing— Electric Start

Rear View



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 traveling expenses of a engineer to attend. Demon International's 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.

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. 15045 is 15° 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
Typhoon 1 & Evolution Models	15 litres	2900psi	1505	Red
Tempest 1 Auto	11 litres	1500psi	15045	Blue
Tempest 3 Auto	11 litres	1500psi	15045	Blue
Storm 1	11 litres	1500psi	15045	Blue
Storm 2	11 litres	1500psi	15045	Blue
Tornado & Hurricane P2	13 litres	2200psi	15045	Red
Tornado & Hurricane P4	15 litres	2900psi	1505	Red
Tornado & Hurricane D1ES	15 litres	2900psi	1505	Red

Demon Technical Support 01752 - 690690

Marketing/Lance Colours New Manuals.docx Issue 2 12/08

Lance and Machine Colour Codes

Part Iumber	Description	Storm	Wall Mounted	Hurricane	Tempest Inc Cabinet	Typhoon	Evolution	Tornado & Mini-Bowser
M10031Y	Cold Water Lance 04 Yellow	N/A	N/A	N/A	W/A	N/A	W/A	P1
M10031B	Cold Water Lance 045 Blue	Storm 1 & 2	1MM	P2	N/A	N/A	N/A	P2
M10031R	Cold Water Lance 05 Red	N/A	WM4	P4 & D1	W/A	N/A	N/A	P4 & D1
M10032B	Hot Water Lance 045 Blue	N/A	N/A	N/A	Tempest 1, 3 & 4 (13.17 pump)	N/A	N/A	N/A
M10032R	Hot Water Lance 05 Red	N/A	N/A	N/A	Tempest 4 (15.20 Pump)	Typhoon 1 & 2	Evo1 & 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.

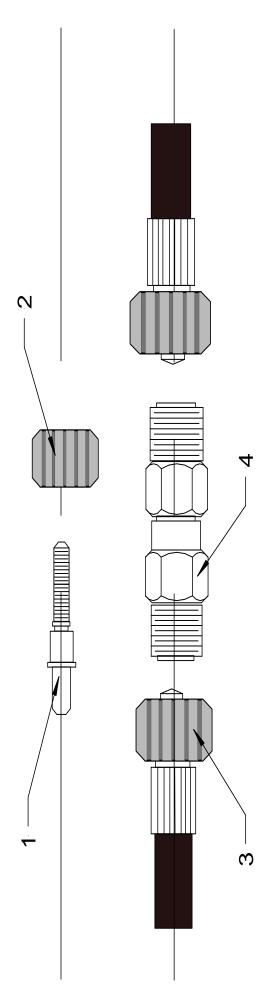
 Remedy: Strip and remove the blockage.
- **6.** The pressure remains high even when I let go of the trigger and the engine or motor is struggling or stalling. The non- return valve in the unloader is damaged or jammed.

 Remedy: Strip and clean or replace.

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
3	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

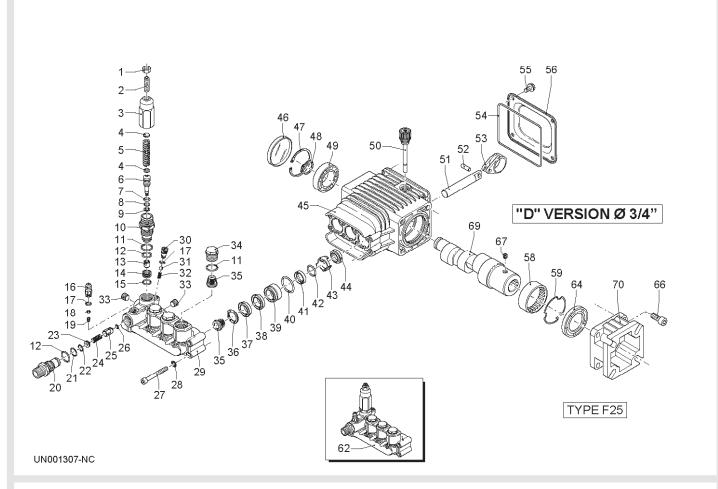


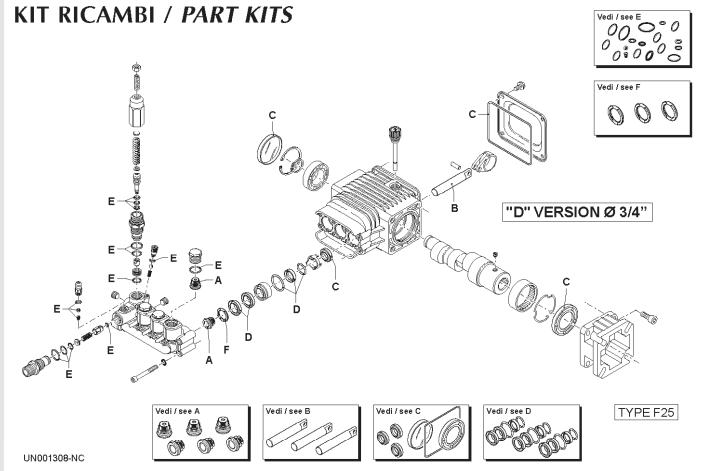
ij	Hose Insert	MV00490 (items 1 & 2)
2.	Nut	
33.	High Pressure Hose	ннооозомус
4.	Hose Joiner	MV00500
	Alternative Hose Lengths	ngths
	15 Metre	ЭЛМ05000НН
	30 Metre	HH00100MVG

RSV

D 3400_{RM} Ø 3/4"







RSV D 3400_{RM} Ø 3/4"



Pos.	Cod.	Denominazione	Description	Q.tà	Note	Pos.	Cod.	Denominazione	Description	Q.tà	Note
	Part n°			Q.ty	Vedi / See		Part n°			Q.ty	Vedi / See
1	1980300	Dado M 6	Nut	1		43	2760310	Distanziale	Spacer	3	
2		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		Cappellotto chiusura	Cap	1	
5	2760410	Molla	Spring	1		47	1260790	Anello seeger Øi 52	Circlip	1	
6	2760400	Pistone valvola	Valve piston	1		48		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	880130	Tappo olio	Oil cap	1	
9	2760210	Anello antiestrusione	Ring	1		51	2760040	Pistone	Piston	3	
10	2760050	Guida pistone	Piston guide	1		52	1780050	Spinotto	Piston pin	3	
11	1200690	OR Ø 15,6x1,78	0-Ring	4		53		Biella alluminio	Alluminium con rod	3	
12	394280	OR Ø 12,42x1,78	0-Ring	2		54	2760280	OR Ø 101,27x2,62	0-Ring	1	
13	2260070	Otturatore by pass	By-pass jet	1		55		Vite TE M 6x12	Screw	4	
14	2760090	Sede	Seat	1		56	2760110	Coperchio posteriore	Rear cover	1	
15	770140	OR Ø 11,11x1,78	0-Ring	1		58	2760350	Cuscinetto	Bearing	1	
16		Portagomma	Hose tail	1		59		Anello elastico	Snap ring	1	
17	480480	OR Ø 4,48x1,78	0-Ring	2		62	2769200	Prem. testa pompa	Pump head pre-ass.	1	
18	1250280		Ball	1		64		Anello tenuta	Seal	1	
19	1560520		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		17/20/2020		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		Head	1							
30		Tappo ez-start	Ez-start plug	1							
31	1982240	23/3/2020	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 37		Anello appoggio Guarnizione	Support ring Gasket	3							
877		Anello antiestrusione		1							
38											
39 40		Guida pistone	Piston guide	3							
41		OR Ø 23,52x1,78 Guarnizione	O-Ring Gasket	3							
41		TO AND THE ACTION OF THE PARTY	O-Ring	3							
42	040070	OR Ø 13,95x2,62	U-nilly	ં							

KIT RICAMBI PART KITS

D=KIT 2189 ø 15 A=KIT 2186 B=KIT 2187 ø 15 C=KIT 2188 valvole pistoni tenute olio tenute acqua pistons valves oil seals water seals pos. Q.ty pos. Q.ty pos. Q.ty pos. Q.ty 35 51 44 3 37 46 1 38 3 3 54 1 40 64 1 41 3 42 3

		191 ø 15 ppoggio et rings		E=KIT 2190 OR <i>O-Rings</i>			
Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.
		3	36	2	17	1	7
			100,000	1	18	1	7 8 9
				1	19	1	9
				1	21	4	11
				1	22	2	12
				1	26	1	15

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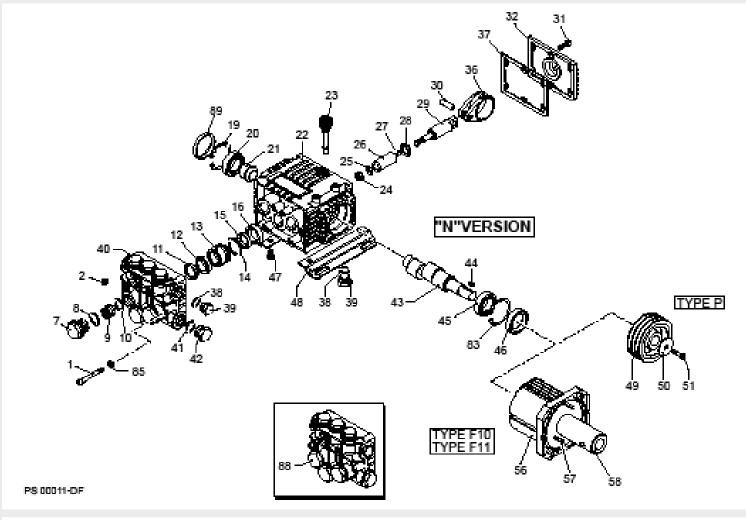
Ø 15

O Per / For RSV 2.5 G25 Ø 15

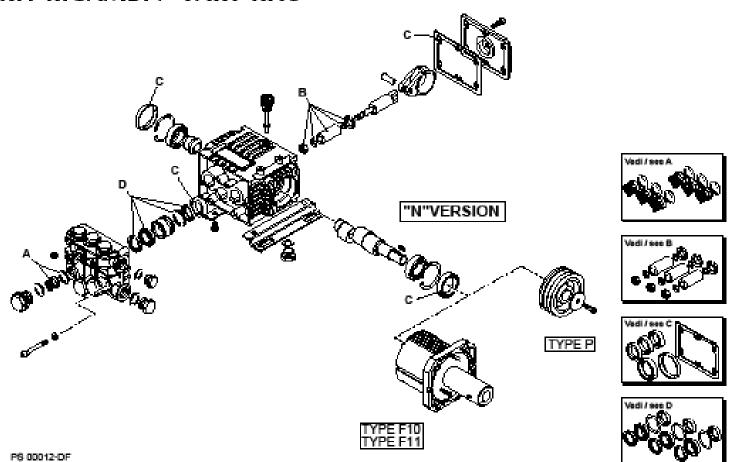
• Per / For RSV 3 G25 XT

IN 1450_™





KIT RICAMBI / PART KITS



Hurricane Petrol XT 11.14 Pump / XT 13.12 Pump / XT 13.15 Pump

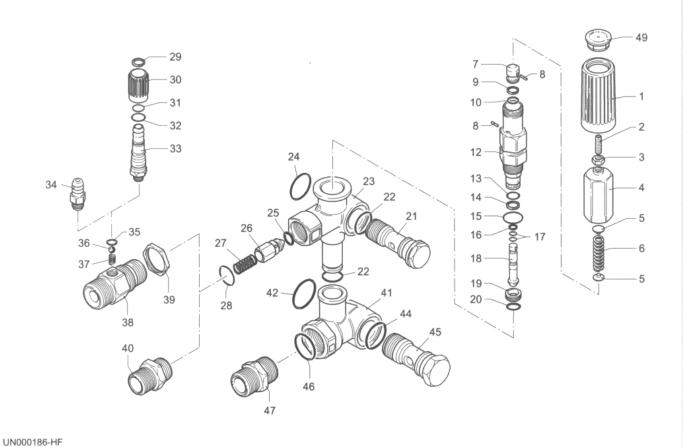
			XT	1	450		
Pos	Code No	Description	Qty	Pos	Code No	Description	Qty
1	AR1322730	Screw	6	40	AR1320020	Pump Head	1
2	AR620301	Plug	1	41	AR180101	O Ring	1
7	AR1260162	Plug	6	42	AR820361	Plug	1
8	AR960160	O Ring	6	43	AR1260200	Crankshaft	1
9	AR1269050	Complete Valve	6	43	AR1320260	Crankshaft	1
10	AR880830	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				

ARKIT1864		ARKIT	2629	ARKIT1872		
Valve	Valve Kit		Piston 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	
		28	3			

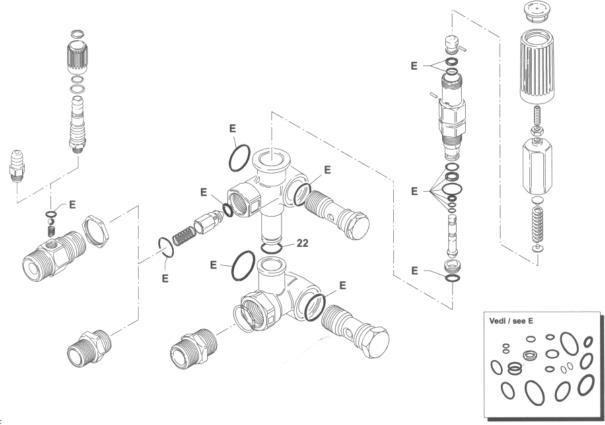
ARKIT	1874
Water	Seals
11	3
12	3
14	3
15	3

MINIMATIC 4/B





KIT RICAMBI / PART KITS



UN000187-HF

MINIMATIC 4/B



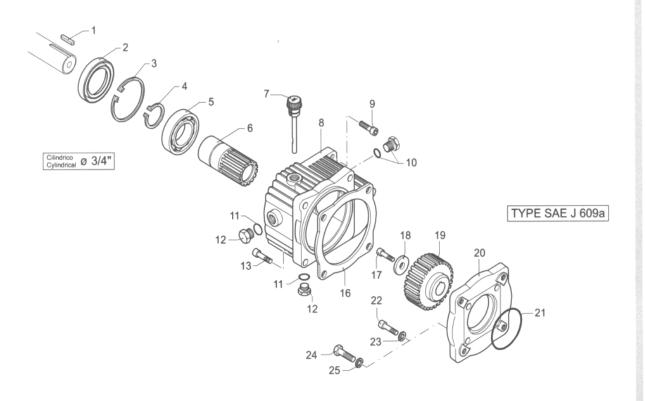
os.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See	Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / See
1	1981780	Manopola	Handle	1		40	1540180	Niples 3/8" G	Adaptor 3/8" G	1	•
2		Grano M6x20	Grub	1		40	1540500	Niples 3/8" NPT	Adaptor 3/8" NPT	1	•
3	1980300	Dado M6	Nut	1		41	1540280	Corpo by-pass	By-pass housing	1	3/8" G
4		Inserto manopola	Knob insert	1		41	1540480	Corpo by-pass	By-pass housing	1	3/8" NPT
5	1980220	Piattello molla	Spring plate	2	'	42		OR Ø 23,47x2,62	0-Ring	1	
6	1271070	Molla	Spring	1		44	880270	OR Ø 17,17x1,78	0-Ring	1	
7	1080041	Pistone superiore	Upper piston	1		45		Vite 1/2" G	Thread screw	1	
8	1080070	Spina	Pin	2		46		OR Ø 17,13x2,62	0-Ring	1	Optional
9	1080401	Anello antiest.	Back-up ring	1		47		Raccordo	Fitting	1	Optional
10	1080250	OR Ø 7,66x1,78	0-Ring	1		49	1981770	Tappo manopola	Knob plug	1	
12	1980210	Guida pistone	Piston Guide	1							
13	740290	OR Ø 14x1,78	0-Ring	1							
14	800560	OR Ø 8,73x1,78	0-Ring	1							
15	880830	OR Ø 15,54x2,62	0-Ring	1							
16	1271170	Anello antiest.	Back-up ring	1							
17	1080190	OR Ø 2,90x1,78	0-Ring	2							
18	1271160	Pistone inferiore	Lower piston	1							
19	1980200	Sede valvola	Valve seat	1							
20	1470210	OR Ø 9x1	0-Ring	1							
21		Vite 3/8" G	Thread screw	1	Ottone/Brass						
41	1540430	Vite 3/8" G Inox	Thread screw	1	Inox/Steel						
22	390080	OR Ø 11,91x2,62	0-Ring	2							
23		Corpo valvola	Valve housing	1							
24		OR Ø 20,24x2,62	0-Ring	1							
25	1460430	OR Ø 4x2,5	0-Ring	1							
26		Otturatore	Jet	1							
27	1080091		Spring	1							
28		OR Ø 12,42x1,78	0-Ring	1							
29	1560660	1	Ring	1	A						
30		Manopola reg.det.	Detergent reg. knob	1	A						
31		OR Ø 6,75x1,78	0-Ring	1	A						
32		OR Ø 8,73x1,78	0-Ring	1	A						
33		Portagomma	Hose tail	1	A						
34		Portagomma	Hose tail	1							
35		OR Ø 4,48x1,78	0-Ring	1							
36	1250280		Ball	1							
37	1560520		Spring	1							
۸۸		Raccordo 3/8" G	Fitting 3/8" G	1	0 2 ■ ▲						
ŹΧ		Raccordo 3/8" G	Fitting 3/8" G	1	∅ 2,3 ■ ▲						
J()		Raccordo 3/8" NPT	Fitting 3/8" NPT	1	Ø 2 ■ ▲						
VV		Raccordo 3/8" NPT	Fitting 3/8" NPT	1	Ø 2,3 ■ ▲						
39	1540300	Controdado	Nut	1							

KIT RICAMBI PART KITS

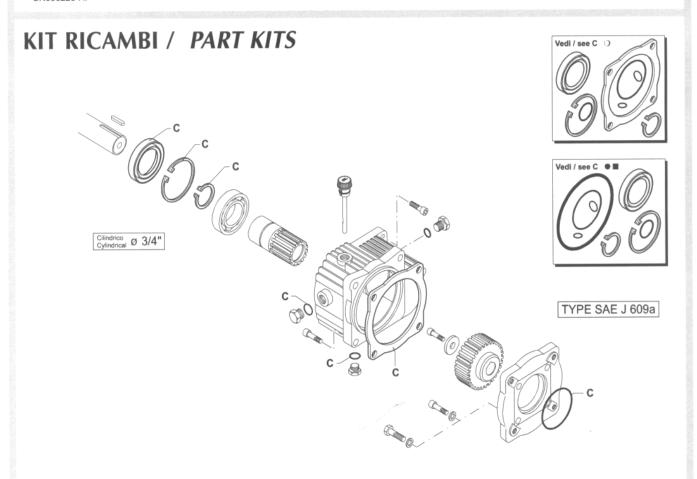
LEGENDA:

E=KIT 2812 OR O-Rings							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 4/B	MINIMATIC 4/BTID	MINIMATIC 4/BTIDK
9 10 13	1 1 1	17 20 22	2 1 2	35 42 44	1 1 1					
14 15 16	1 1	24 25 28	1 1 1							
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty			





UN000228-HF





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 2 3 4 4 5 6 7 7 8 8 9 10 11 12 13 13 6 17 18 19 20 21 22 23 24 25	961800 961790 320240 961781 1322920 1322930 1140370 1320910 651000 1980290 740290 1520590 880280 780230 1322940 1321230 1320930 1320930 650920 640030 780330 1341020 180430 390450	Linguetta Anello tenuta Seeger Øi 68 Seeger Øe 40 Cuscinetto Pignone Ø 3/4" Pignone Ø 3/4" Tappo olio + OR Scatola riduttore Vite TCEI 5/16" Tappo 3/8" OR Ø 14x1,78 Tappo 3/8"G Vite TCEI M 10x25 Guarnizione scatola OR Ø 107,67x1,78 Vite TCEI M 6x18 Rondella Tenuta Ruota dentata Ruota dentata Ruota dentata Ruota dentata Flangia riduttore Flangia riduttore OR Ø 53,65x2,62 OR Ø 60x2,62 Vite TCEI M 6x20 Rondella 6x10x1 Vite TE M 8x20 Vite TE M 8x30 Rondella 8x13x0,50	Key Seal Circlip Circlip Bearing Pinion Pinion Oil plug + 0-ring Gear box Screw Plug 0-Ring Plug Screw Washer Gear Gear Gear Flange Flange 0-Ring O-Ring Screw Washer Screw Washer Screw Washer Screw Washer	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z=23 • OZ=21 • Ottone/Brass Z=45 OZ=47 • OZ=4						

KIT RICAMBI PART KITS

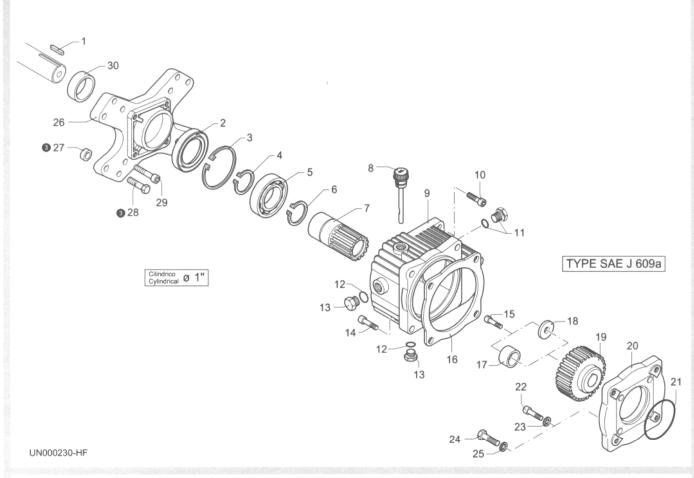
LEGENDA:

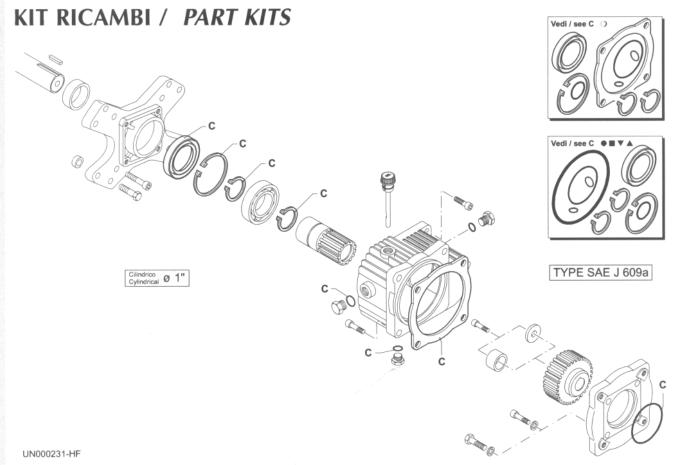
tenut	2793 〇 e olio seals	tenut	525 ● ■ te olio seals					O Per / For	• Per / For cop. 1692	■ Per / For
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	1:2	1:2	1:2
2	1	2	1					XT/XTA series	XM/XMA series XRC/XRCAseries	XM series
3	1	3	1 1						ARCIARCASCILES	ARC SCIT
4	1	4	1							
11	2	11	2							
16	1	16	1							
21	1	21	1							

	Per / For
	cod. 1691
	1:2
	XM series
	WD 0 1

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









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
4	1382510	Chiavetta (8 HP)	Key	1	00074						
		Linguetta (9-18 HP)	Key	1	• = V A						
2	961800	Anello tenuta	Seal	1							
3		Seeger Øi 68	Circlip	1							
4	320240	Seeger Øe 40	Circlip	1	'						
5	961781	Cuscinetto	Bearing	1							
6	320240	Seeger Øe 40	Circlip	1							
7	1382420	Pignone Ø 1" Z=23	Pinion	1	○●▼						
- []	1382430	Pignone Ø 1" Z=21	Pinion	1							
8	1140370	Tappo olio + OR	Oil plug + 0-ring	1							
9	1320910	Scatola riduttore	Gear box	1							
10	881940	Vite TCEI M 8x25	Screw	4							
11	1980290	Tappo 3/8"	Plug	1							
12	740290	OR Ø 14x1,78	0-Ring	2							
13	1980740	Tappo 3/8"G	Plug	2	Ottone/Brass						
14	160671	Vite TCEI M 10x25	Screw	4							
15	880280	Vite TCEI M 6x18	Screw	1							
16	1320990	Guarnizione scatola	Gasket	1	0						
10	1520590	OR Ø 107,67x1,78	0-Ring	1	• • • •						
17	1940500	Distanziale	Spacer	1	▼ ▲						
18	780230	Rondella Tenuta	Washer	1	0						
40	1322940	Ruota dentata Z=45	Gear	1	0						
19	1321230	Ruota dentata Z=45	Gear	1	• ▼						
		Ruota dentata Z=47	Gear	1							
20		Flangia riduttore	Flange	1	0						
20		Flangia riduttore	Flange	1	• = V A						
91		OR Ø 53,65x2,62	0-Ring	1	0						
41		OR Ø 60x2,62	0-Ring	1	• • • •						
22		Vite TCEI M 6x20	Screw	4	0						
23	1341020	Rondella 6x10x1	Washer	4	0						
24		Vite TE M 8x20	Screw	4	● ■ (XM)						
		Vite TE M 8x30	Screw	4	• • •						
25		Rondella 8x13x0,50	Washer	4	• • •						
26		Flangia motore	Motor flange	1							
27		Distanziale	Spacer	4	0						
28		Vite TE 3/8"	Screw	4	•						
29		Vite TCEI 5/16"	Screw	4							
30	1382540	Distanziale	Spacer	1	• • • •						
								Per motori italiani	/ Italian engines or	nlv	
						Stendar		o 7 or motorr italian	, italian originos or		

KIT RICAMBI PART KITS

C=KIT 2793 O C=KIT 2525 ● ■ ▼ ▲ tenute olio tenute olio oil seals oil seals Q.ty Q.ty Q.ty pos. Q.ty pos. 2 1 2 1 3 1 3 4 1 4 1 6 1 6 1 2 12 2 12

16

16

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

LEGENDA:

■ Per

Per / For
сор. 1690
1:2
XM/XMA series
XRC/XRCAseries

O	Per / For
	cod. 1693
	1:2,24
	YT/YTA series

Per / For cop. 1689	▼ Per / For cop. 169
COD. 1009	COD. 109
1:2,24	1:2
XM series	XW/XWA
XRC series	

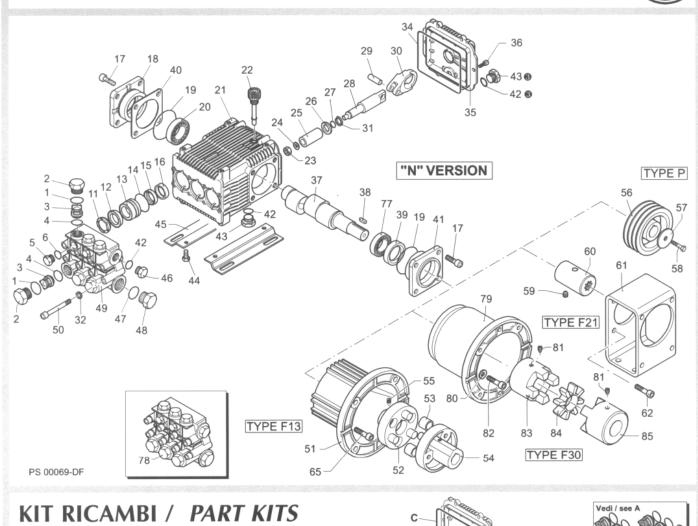
_	Per / For
	cop. 1698
	1:2,24
	YW series

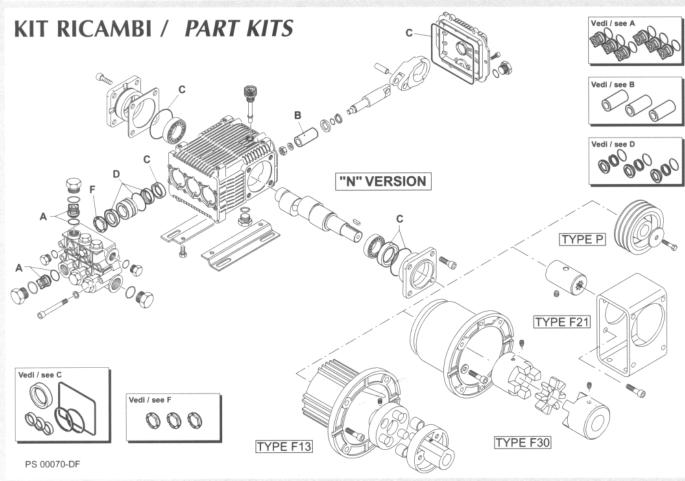
сор. 1697	cop. 1	
1:2	1:2,24	
XW/XWA series	XW ser	

RK

N 1450 RPM







RK	MODE	EL:	15.20H
	111006		43.2011

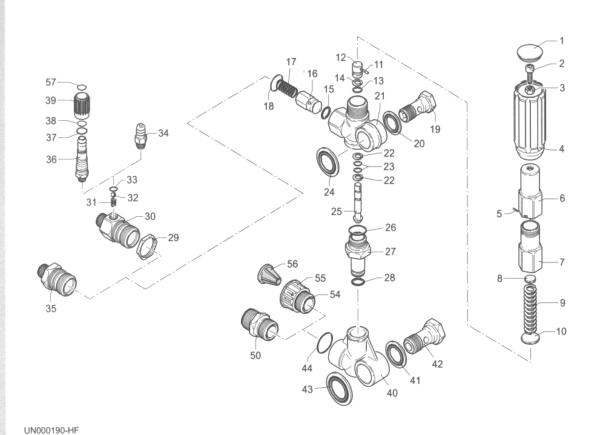
Pos	Part No	Description	Qty	Pos	Part No	Description	Qty
1	AR960160	O Ring	6	36	AR1343510	Screw	6
2	AR960090	Plug	6	40	AR1380120	0.10mm shim	1÷3
2	AR1380740	Plug	6	40	AR1380130	0.20mm shim	1÷3
3	AR1389051	Complete Valve	6	40	AR1380530	0.25mm shim	1÷3
4	AR880830	O Ring	6	40	AR1382810	0.05mm shim	1÷3
5	AR880581	Plug	2	42	AR740290	O ring	3
6	AR820510	O Ring	2	43	AR1980740	³ / ₈ G plug	2
11	AR960110	Support Ring	3	44	AR1260470	Screw	4
12	AR880320	Gasket	3	45	AR1380141	Base	2
13	AR1380090	Piston Guide	3	46	AR1980740	3/8 G Plug	1
14	AR961240	O Ring	3	46	AR1981180	3/ ₈ G Plug	1
15	AR880330	Gasket	3	47	AR180101	O Ring	1
16	AR138130	Seal	3	48	AR820361	Plug	1
17	AR850370	Screw	8	48	AR960870	Plug	1
18	AR1380050	Closed Bearing sup	1	49	AR1381071	Pump head	1
19	AR640030	O Ring	1	50	AR820150	Screw	8
20	AR2280240	Bearing	1	60	AR1380320	Bearing	1
21	AR1382770	Pump Housing	1	61	AR621170	Seal	1
22	AR880130	Oil Cap	1	62	AR1380220	O Ring	1
23	AR962010	Nut	3	63	AR1380210	Shaft cover	1
24	AR962000	Washer	3	66	AR2280180	Hollow Shaft 28mm	1
24	AR1380940	Ceramic Piston	3	66	AR2280170	Hollow Shaft 028mm	1
26	AR1380950	Spacer	3	66	AR2280160	Hollow Shaft 028mm	1
27	AR600180	O ring	3	66	AR2280150	Hollow Shaft 028mm	1
28	AR1380920	Guiding Piston	3	67	AR1380370	El Motor flange	1
29	AR1380060	Piston Pin	3	76	AR620610	Screw	4
30	AR1383050	Aluminium con-rod	3	86	AR1260250	Oil Indicator	1
31	AR1080401	Ring	3	87	AR1260430	Snap Ring	1
32	AR1381850	Washer	8	88	AR1780690	Disc	1
34	AR1780510	O Ring	1	89	AR1140450	O Ring	1
35	AR1789010	Complete cover	1				

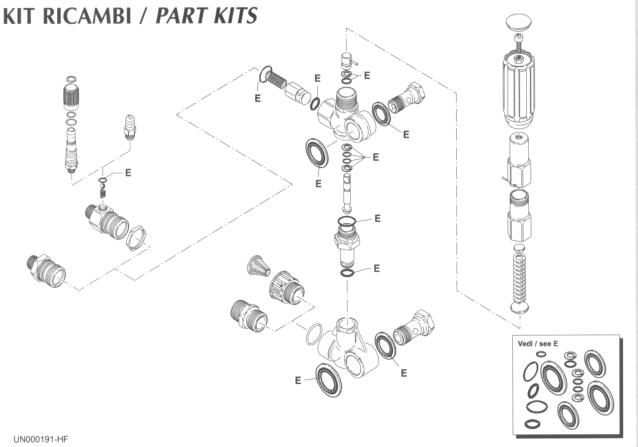
Val	Valve Kit		on Kit	Oil Se	eal Kit
ARKI	T1828	ARKI	Г2757	ARKIT	1856
Pos	Qty	Pos	Qty	Pos	Qty
3	6	25	3	16	3
4	6			19	1
				34	1
				61	1
				62	1

Wat	Water Seal		ort Ring
ARK	ARKIT1857		KIT1829
Pos	Qty	Pos	Qty
12	3	11	3
14	3		
15	3		

GYMATIC 3/B



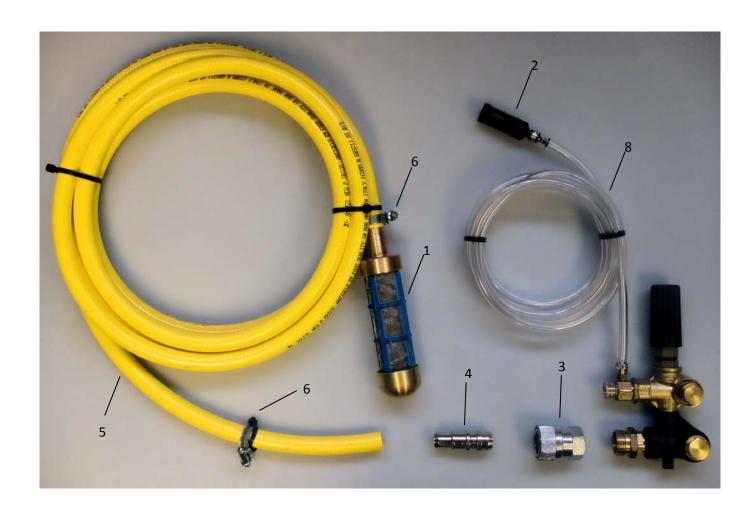




GYMATIC 3/B							
Pos	Part No	Description	Qty	Pos	Part No	Description	Qty1
1	AR1560580	Knob Plug	1	39	AR1560670	Detergent Reg Knob	1
2	AR180030	Screw	1	40	AR1540020	By-pass housing	1
3	AR1660210	Nut	1	41	AR154120	Washer	1
4	AR1560400	Handle	1	42	AR1540090	Fitting 1/2" G	1
5	AR1080070	Pin	1	42	AR1540200	Fitting 1/2" NPT	1
6	AR1560420	Adjusting Screw	1	43	AR1560290	Washer	1
7	AR1560410	Spring Guide	1	44	AR480440	O Ring	1
8	AR1560440	Plate	1	50	AR1540050	Fitting 1/2" G	1
9	AR1560350	Spring	1	54	AR1560310	Fitting	1
10	AR108610	Spring Plate	1	55	AR1560300	Ring Nut	1
11	AR1080660	Pin	1	56	AR1266330	Filter	1
12	AR1080540	Upper Piston	1	57	AR1560660	Ring	1
13	AR391000	O Ring	1				
14	AR108640	Back up Ring	1				
15	AR1560150	O Ring	1				
16	AR1560100	Jet	1				
17	AR1560140	Spring	1				
18	AR180101	O Ring	1				
19	AR1540080	Fitting 3/8"G	1				
19	AR1540190	Fitting 3/8" NPT	1				
20	AR1540110	Washer	1				
21	AR1560010	Valve Housing	1				
22	AR1080550	Back Up ring	2				
23	AR480480	O Ring	2				
24	AR1560280	Washer	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	AR1560500	Fitting 3/8" G	1				
30	AR1560530	Fitting 3/8"G	1				
30	AR1560540	Fitting 3/8"G	1				
31	AR1560520	Spring	1				
32	AR1250280	Ball	1				
33	AR480480	O Ring	1				
34	AR1560490	Hose Tail	1				
35	AR1560110	Adaptor 3/8"G	1				
35	AR1560111	Adaptor 3/8"G	1				
36	AR1560650	Hose Tail	1				
37	AR800560	O Ring	1				
38	AR480560	O Ring	1				

ARKIT2611					
Pos	Qty	Pos	Qty	Pos	Qty
13	1	23	2	43	1
14	1	24	1		
15	1	26	1		
18	1	28	1		
20	1	33	1		
22	2	41	1		

Hurricane Range Inlet Fittings



Position	Part No	Description	Qty
1	DEM10041	100 Mesh Suction Filter	
2	MTM86010	Chemical Filter	
3	MTM73001	QR Nipple Female	
4	MTM73020	QR Nipple Male	
5	HH0053	Yellow Hose	
6	DEM20500	Jubilee Clip	
7	DEM10042	Suction filter with	
	INC (1-4-5-6)	Hose and fittings	
8	DEM10115	Detergent Pipe (Chemical Pipe)	

COMMON PART NUMBERS					
DEM102255	Hurricane Black Knob & Bolt Replacement Kit				
WHEEL300	Wheel				
WHEEL25	Wheel Cap				
DEM20620	Pressure Gauge 0-4000 psi				
DEM100760	Push Button Switch				
DEM100755	Rotary Switch				
DEM100775	Domed Light				
YAN11435-77500	Key switch & Loom				
YAN114549	Barrel & Key				
YAN2746	Keys				
MTM20091/1	Swivel Nut 90 ^o Hose Reel attachment				
YAN714650-53100	L100 Injector				
DEM100532	05 Turbo Nozzle				
MTM39001	Easy Start Valve				
DEM10370	Rubber Mounts				
DEM10228	Hurricane Handle				
HONDA006	Honda Fuel Filter				
HONDA005	Honda Air Filter				