

LANDA[®]

WATER JET SYSTEM

OPERATOR'S MANUAL

***PARKING LOT
AND DRIVEWAY
CLEANING
MADE EASY***



For technical assistance or the dealer nearest you consult our web page at www.landa.com

8.913-945.0

CONTENTS

Introduction	4
Important Safety Information	4
General Operating Techniques.....	4-5
High Pressure Swivel Information.....	5
Exploded View	6
Parts List, Exploded View	7
Troubleshooting	8
Nozzle Chart	8
Warranty	9
Spanish Translations	10-11

Model Number _____

Serial Number _____

Date of Purchase _____

The model and serial numbers will be found on a decal attached to the pressure washer. You should record both serial number and date of purchase and keep in a safe place for future reference.

INTRODUCTION

The Water Jet is designed to attach to a pressure washer which causes rotation of two high pressure nozzles which will contain the spray as well as determine the size of the swath when cleaning surfaces such as parking lots, driveways and sidewalks.

It also has an attached spray gun and hose for isolated cleaning areas. The height adjustment knob allows for cleaning variations by easily raising or lowering the rotating pressure spray.

Owner/User Responsibility:

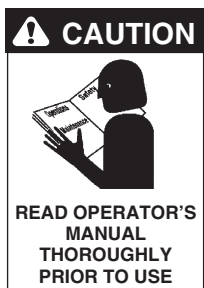
The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this Water Jet. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturers' instructions.

This manual should be considered a permanent part of the machine and should remain with it if machine is resold.

When ordering parts, please specify model and serial number.

IMPORTANT SAFETY INFORMATION



CAUTION: To reduce the risk of injury, read operating instructions carefully before using.

1. Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.



WARNING: High pressure stream of fluid that this equipment can produce can pierce skin and its underlying tissues, leading to serious injury.

2. High pressure developed by these machines will cause personal injury or equipment damage. Use caution when operating. Do not direct discharge

stream at people or animals or severe injury or death will result.

3. Never make adjustments on machine while it is in operation.
4. Eye safety devices and foot protection must be worn when using this equipment.
5. The best insurance against an accident is precaution and knowledge of the machine.
6. Never point the Water Jet wand at any part of your body or at anyone standing within 10 feet as serious injury could occur.



WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds.

7. Safety clothing and protective eyecovering must be worn.
8. Water Jet assembly comes equipped with a #6 nozzle in the spray gun and two #3 nozzles in the rotating swivel. Check your machine nozzle size before using.
9. We will not be liable for any alterations made to our standard machines, or the application of any components not purchased from us.
10. Pressure must NOT exceed 4,000 PSI. Temperature must NOT exceed 200°F. Flow rate must NOT exceed 6 GPM.
11. To protect from freezing, squeeze trigger on spray gun and lower the hose to allow water to drain. Flow rate must NOT exceed 6 GPM.

GENERAL OPERATING TECHNIQUES

1. Disconnect pressure washer spray gun from high pressure hose. These items are not included, but are provided with the soon to be attached pressure washer.
2. Attach the female nipple, supplied with the Water Jet, to the pressure washer high pressure hose.
NOTE: We recommend using no mar hose to prevent black marks from appearing on the cleaning surface.
3. Couple the pressure washer high pressure hose to the Water Jet.
4. Inspect your pressure washer nozzle size. The Water Jet surface cleaner comes with two #3 nozzles. If your pressure washer requires a nozzle larger than a #6, consult with your local dealer.

NOTE: For ideal cleaning, the Water Jet must be attached to a minimum 4 gpm at 3,000 psi pressure washer.

5. Adjust the rotary spraybar to its highest position. Loosen the adjustment knob (item #7) on the front of the Water Jet dome and slide the knob upward to raise the rotary spraybar to its highest position and tighten.
6. Turn on water supply and start pressure washer.
NOTE: It is always important to test in a small area for the correct height adjustment needed so surface being cleaned won't be damaged.
7. Pull the trigger for water to start cleaning surface.
NOTE: Never stop moving the Water Jet while trigger is engaged and surface is being sprayed or damage to surface could occur.
8. For use of the spray gun in isolated cleaning, check the nozzle size (item 24). The Water Jet is shipped with a #6 nozzle; if your pressure washer requires a larger nozzle, you will need to use the nozzle from your pressure washer.

NOTE: For use of the spray gun, be aware that the Water Jet comes with a #6 nozzle and two #3 nozzles on the rotary swivel.

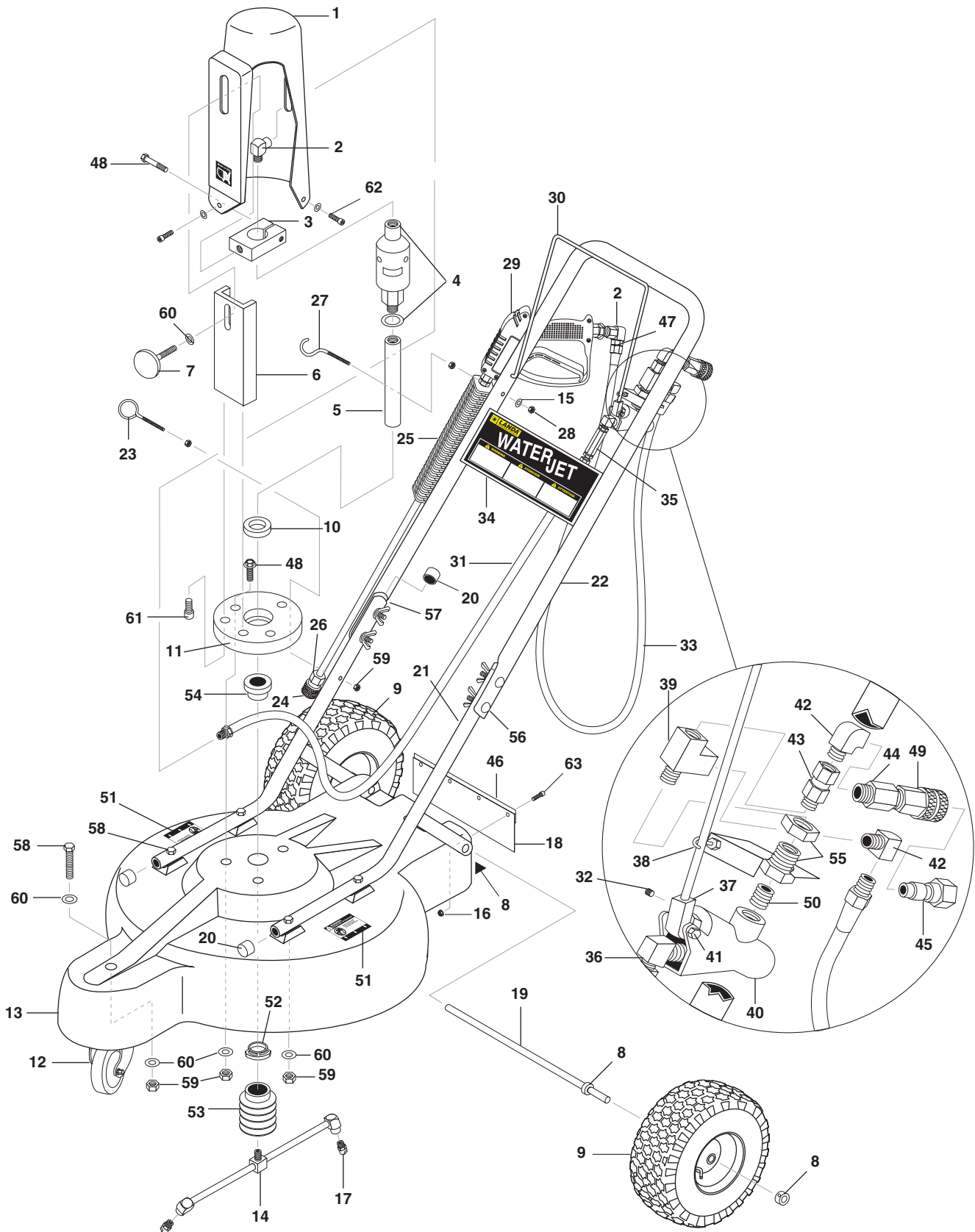
HIGH PRESSURE SWIVEL INFORMATION

The Water Jet high pressure swivel will “weep” water from underneath the dome cover (item 1). This weeping is normal for this swivel and will weep even more with hot water than with cold. The swivel uses water to lubricate its floating seal face to keep wear down to a minimum.

Also the high pressure swivel is equipped with a grease fitting and should be greased at least **once every three months**. A good quality ball bearing grease is recommended. **DO NOT OVER GREASE THE BEARING!**

The Warranty for this high pressure swivel is one year from date of purchase.

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	8.706-579.0	Dome, Water Jet, Height Adjustment	1	36	8.706-163.0	Elbow, Male, 1/4" Pipe	1
2	8.706-207.0	Elbow, Street, 3/8"	2	37	8.719-966.0	Adapter, Valve, Trigger Bar	1
3	8.719-964.0	Clamp, Rotary Swivel,	1	38	8.719-101.0	Hook, #10/24" x 2" NC	1
4	8.707-011.0	Swivel, Rotary Union	1		8.718-857.0	▲ Nut, 10/24", Hex, Whiz Loc	1
	8.941-711.0	Washer, Brass	1		8.719-019.0	▲ Washer, Split, Lock	1
5	8.719-962.0	Shaft, Extension, Water Jet	1	39	8.706-233.0	Tee, Street, 1/4", Steel	1
6	8.719-963.0	Block, Slide Adjustment	1	40	8.718-244.0	Valve, Actuator, Assy.	1
7	8.719-063.0	Knob, 3/8" x 1", Water Jet	1		81-21227	▲ Kit, Repair, 200 Series (for 81-21007L)	1
8	9.802-782.0	Collar, 5/8" Bore Shaft	6	41	8.719-069.0	Pin, Roll m2.5 x 24 mm	1
9	4-0303	Wheel & Tire Assy. 4" Tubeless	2	42	8.706-200.0	Elbow, Street, 1/4"	2
10	8.706-580.0	Bearing, 1" Roller, Dbl Seal	1	43	8.707-012.0	Swivel, High Pressure, 1/4"	1
11	8.719-961.0	Base, Slide Adjustment	1	44	8.706-301.0	Adapter, 3/8" x 1/4"	1
12	8.711-908.0	Wheel, Castor 3" Grey	1	45	9.802-170.0	Nipple, 3/8" x 3/8", NPT ST, Female	1
13	8.706-578.0	Base, Water Jet, Polyethylene	1	46	8.912-853.0	Plate, Backup, Splash Guard	1
14	8.725-311.0	Spray Arm Assy, Complete, SS	1	47	8.706-297.0	Bushing, 3/8" x 1/4", Steel	1
15	9.802-813.0	Washer, 5/16", Lock, Split, Ring	1	48	8.718-724.0	Screw, 3/8" x 2" Sockethead	4
16	9.802-696.0	Nut, 10/32", NF, ST, KEP	4	49	9.802-169.0	Coupler, 3/8" Male	1
17	8.711-370.0	Nozzle Only, SA, 1/4", Meg-1503	2	50	8.705-969.0	Nipple, 1/4" Close	1
18	8.707-387.0	Guard, Splash, Water Jet	1	51	8.900-222.0	Label, Water Jet Warning	2
19	8.912-849.0	Axle, 5/8" x 18.5", Stainless	1	52	8.709-113.0	Clamp	1
20	8.706-560.0	Cap, Black Vinyl, Water Jet	4	53	8.706-557.0	Bellows, Leg Boot	1
21	8.912-851.0	Handle Assy., Lower	2	54	8.715-871.0	Bearing, Water Jet Boot Holder	1
22	8.912-852.0	Handle, Water Jet, Upper Assy.	1	55	8.706-999.0	Connector, 1/4" Anchor	1
23	8.718-710.0	Eyebolt, 3/8" x 4"	1	56	8.718-727.0	Screw, 1/4" x 2"	4
24	8.712-364.0	Nozzle SAQCMEG 4006, White	1	57	8.718-880.0	Nut, Wing 1/4"	4
25	8.711-311.0	Wand, Insulated, Water Jet	1		8.719-019.0	▲ Washer, Split Lock	4
26	9.802-164.0	Coupler, 1/4" Female	1	58	9.802-726.0	Bolt, 3/8" x 1-3/4" SS	5
27	8.719-109.0	Bolt, 5/16" x 3", J-Bolt	1	59	9.802-780.0	Nut, 3/8" SS ESNA	9
28	9.802-787.0	Nut, 5/16", Cap	1	60	9.802-808.0	Washer, 3/8" SS	10
29	8.751-234.0	Gun, Landa, L1050, 5000 PSI, 10.4 GPM	1	61	8.718-723.0	Screw, 3/8" x 1-1/2" Sockethead	2
30	8.719-965.0	Handle, Trigger Bar, Water Jet	1	62	9.802-759.0	Screw, 10/32" x 1/2"	3
31	8.918-185.0	Hose, 30" x 1/4", Pres Bypass	1		9.804-082.0	▲ Washer, 1/4", SAE, Black	3
32	8.718-951.0	Set Screw, 10/32" x 1/4" SS. Socket Head	1	63	8.718-653.0	Screw, 10/32" x 1/2", SHCS, SS4	
33	8.918-187.0	Hose, 42" x 1/4" x 100R2	1			▲ Not Shown	
34	8.900-221.0	Label, Water Jet	1				
35	8.709-175.0	Filter, 1/4" 36387-1/4", High Pressure	1				
	8.709-176.0	▲ Screen, High Pres.Filter S/S	1				
	2-990711	▲ Gasket, Nylon for 2-99071	1				

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
QUICK COUPLER LEAKS	Worn O-Ring	Replace O-Ring (Part #2-0121).
SPRAY GUN(S) LEAK	Foreign matter between valve seat and ball	Remove foreign matter. Replace with Repair Kit (Part #81-21227).
PRESSURE WASHER UNLOADER CYCLES	High pressure filter or wrong sized nozzles for attached pressure washer	Remove and clean out filter, nozzle(s). Check nozzle size.
NOZZLES SPINNING TOO SLOW	Not enough water volume for attached pressure washer to rotate nozzles	Need a larger gpm pressure washer.
NOT CLEANING SURFACE	Height adjustment too high or pressure washer too small for job	Lower adjustment knob or attach to larger pressure washer.
ROTATING NOZZLE ARM NOT SPINNING, BEARING NOISE	Pressure washer too small or bearing low on grease	Get larger gpm pressure washer or grease bearing.

NOZZLE CHART

Correct nozzle size is important for optimum cleaning efficiency. Water Jet is shipped with two #3, 15° nozzles in rotary swivel, and one #6, 40° nozzle in shut-off gun. Review correct nozzle size for your pressure washer. See chart below for correct nozzle size. To obtain the correct nozzle size in the rotary swivel, divide the minimum nozzle size for the pressure by two. Round this figure up to the nearest half nozzle size. These are the 1/8" nozzles only (two needed) for the rotary swivel on the Water Jet.

Nozzle Size	Orifice diam. (in.)	40 PSI	100 PSI	250 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1200 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI
2	.034	.20	.32	.50	.71	.77	.80	.89	1.0	1.1	1.2	1.4	1.6	1.7	1.9	2.0
3	.042	.30	.47	.75	1.07	1.16	1.25	1.34	1.5	1.6	1.8	2.1	2.4	2.6	2.8	3.0
4	.052	.40	.63	1.00	1.40	1.60	1.70	1.80	2.0	2.2	2.5	2.8	3.1	3.5	3.8	4.0
4.5	.055	.45	.71	1.10	1.50	1.70	1.90	2.00	2.2	2.4	2.8	3.0	3.6	3.9	4.3	5.0
5	.057	.50	.79	1.30	1.80	1.90	2.10	2.20	2.5	2.8	3.1	3.6	4.0	4.4	4.7	5.0
5.5	.06	.55	.87	1.40	1.90	2.10	2.30	2.50	2.8	3	3.4	3.8	4.4	4.8	5.2	5.5
6	.062	.60	.95	1.50	2.10	2.30	2.50	2.70	3.0	3.2	3.7	4.2	4.8	5.2	5.7	6.0
6.5	.064	.65	1.00	1.70	2.30	2.50	2.70	2.90	3.3	3.6	4.0	4.6	5.2	5.7	6.0	
7	.067	.70	1.10	1.80	2.50	2.70	2.90	3.10	3.5	3.8	4.3	5.0	5.6			
7.5	.07	.75	1.20	1.90	2.70	2.90	3.20	3.40	3.8	4.1	4.6	5.3	6.0			
8	.072	.80	1.30	2.00	2.80	3.10	3.40	3.60	4.0	4.4	5.0	5.6				
8.5	.074	.85	1.30	2.20	3.00	3.30	3.60	3.80	4.3	4.6	5.3	6.0				
9	.076	.90	1.40	2.30	3.20	3.50	3.80	4.00	4.5	5.0	5.5					
9.5	.078	.95	1.50	2.40	3.40	3.70	4.00	4.30	4.8	5.32	5.8					
10	.08	1.00	1.60	2.50	3.50	3.90	4.20	4.50	5.0	5.4						
12	.087	1.20	1.90	3.00	4.20	4.60	5.00	5.40	6.0							
15	.094	1.50	2.40	3.80	5.30	5.80										
20	.109	2.00	3.20	5.00												
30	.141	3.00	4.70													
40	.156	4.00														



ACCESSORIES AND PARTS WARRANTY

LIMITED MINIMUM 90 DAY WARRANTY

We warrant to the original consumer that each new part and accessory sold by LANDA will be free from manufacturing defects in materials or workmanship in normal service for the duration specified by the original component manufacturer with a 90 day minimum from date of purchase, provided it is installed properly and the equipment is maintained in accordance with LANDA'S instructions and manuals. Components manufactured by LANDA, such as frames, handles, coil wraps, fuel tanks, belt guards and heating coils have a one year warranty from date of purchase.

Our obligation under this warranty is expressly limited as to the replacement or repair, at our option, at LANDA, Camas, Washington 98607, or at a service facility designated by us, for such part or parts as inspection shall disclose to have been defective.

EXCLUSIONS:

This warranty does not apply to defects caused by casualty or unreasonable use, including faulty repairs by others and failure to provide reasonable and necessary maintenance.

LIMITATION OF LIABILITY

LANDA'S liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall LANDA'S liability exceed the purchase price of the product in question. LANDA makes every effort to ensure that all illustrations and specifications are correct, however, these do not imply a warranty that the product is merchantable or fit for a particular purpose, or that the product will actually conform to the illustrations and specifications. Our obligation under this warranty is expressly limited at our option to the replacement or repair at a service facility or factory designated by us, of such part or parts as inspection shall disclose to have been defective. **THE WARRANTY CONTAINED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.** This warranty gives you specific legal rights and you may also have other rights which vary from state to state. LANDA does not authorize any other party, including authorized LANDA Dealers, to make any representation or promise on behalf of LANDA, or to modify the terms, conditions, or limitations in any way. It is the buyer's responsibility to ensure that the installation and use of LANDA products conforms to local codes. While LANDA attempts to assure that its products meet national codes, it cannot be responsible for how the customer chooses to use or install the product. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

TO OBTAIN WARRANTY SERVICE:

Purchaser must bring the accessory parts to an authorized LANDA Dealership. For the dealership nearest you consult our web page: www.landa.com.

INTRODUCCION

El Sistema de Chorro de agua está diseñado para adaptarse a una lavadora de presión haciendo rotar dos boquillas de alta presión para producir el rociado y así mismo determinar el tamaño del ancho de corte cuando se limpian superficies de playas de estacionamiento, pistas de acceso y veredas.

También tiene una pistola de presión con manguera para limpieza de áreas aisladas. La perilla de regulación de altura permite diferentes tipos de limpieza al aumentar o disminuir la rotación de la presión de rociado.

Responsabilidad del Dueño/Usuario

El dueño/usuario debe entender las instrucciones de operación y las advertencias del fabricante antes de usar el Sistema de Chorro de agua. La información de advertencia debe ser enfatizada y entendida. Si el operador no habla inglés, las instrucciones y advertencias del fabricante deberán ser leídas y discutidas en la lengua nativa del operador por el comprador/dueño, asegurándose que el operador entienda su contenido.

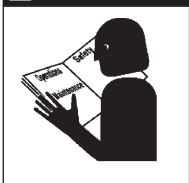
El dueño y/o usuario deben estudiar y mantener las instrucciones del fabricante para futuras referencias.

Este manual deberá ser considerado como una parte de la máquina y debe permanecer así en caso que se revenda la unidad.

Cuando ordene repuestos, por favor especificar el modelo y el número de serie.

INSTRUCCIONES DE SEGURIDAD IMPORTANTES

PRECAUCIÓN



PRECAUCIÓN: Para reducir el riesgo de accidentes, leer cuidadosamente las instrucciones de operación antes de usar la unidad.

1. Leer cuidadosamente el manual del operador. El incumplimiento de las instruccio-

nes puede causar un operación defectuosa e inadecuada de la unidad y puede provocar la muerte, causar heridas serias y/o daños a la propiedad.

ADVERTENCIA



ADVERTENCIA: El flujo de líquido de alta presión del equipo puede producir perforaciones en los tejidos de la piel, causando heridas graves.

2. La alta presión desarrollada por estas unidades causará accidentes personales o da-

ños al equipo. Sea precavido al operar. No descargar el flujo directamente en personas o animales ya que puede causar heridas graves o la muerte.

3. Nunca hacer ajustes a la máquina mientras esté operando.
4. Deben usarse accesorios de seguridad para los ojos y protección de los pies cuando se use este equipo.
5. El mejor seguro contra un accidente es la precaución y el conocimiento de la máquina.
6. Nunca diriga la varilla del chorro de agua a cualquier parte de su cuerpo o alguna persona a 10 pies de distancia ya que podría producir heridas graves.

ADVERTENCIA: El chorro de alta presión puede ocasionar que trozos de pintura y otras partículas vuelen por los aires a altas velocidades.



7. Debe usarse ropa de seguridad y protección para los ojos.
8. El ensamble del Sistema de chorro de agua viene

equipado con una boquilla #6 en la pistola de apagado y dos boquillas #3 en la placa giratoria. Revise la boquilla de su equipo antes de usarlo.

9. No seremos responsable por cualquier cambio hecho a nuestras unidades estándar o la aplicación de cualquier otro componente no comprado de nosotros.
10. La presión NO debe exceder 4,000 PSI. La temperatura NO debe exceder 200°F.
11. Para protección contra congelamiento, apretar el gatillo de la pistola en posición apagado y bajar la manguera para drenar el agua.

TECNICAS GENERALES DE OPERACION

1. Desconectar la pistola de alta presión de la manguera de alta presión. Estos artículos no se incluyen, pero serán provistos cuando se requieran acoplar a la lavadora de presión.

2. Conectar la boquilla hembra, incluida con la lavadora, a la manguera de agua de alta presión.

NOTA: Recomendamos no usar manguera tipo mar para prevenir que aparezcan marcas negras en la superficie que se está limpiando.

3. Acoplar la manguera de alta presión de la lavadora al Sistema de chorro de agua
4. Inspeccionar el tamaño de la boquilla de la lavadora de presión. El Sistema de chorro de agua viene con dos boquillas #3. Si su lavador de presión requiere una boquilla más grande que la #6, consulte con su vendedor local.

NOTA: Para un lavado ideal, el Sistema de chorro de agua debe adaptarse a un lavador de un mínimo de 4 gpm y 3,000 psi de presión.

5. Regular la varilla de rociado en su posición más alta. Aflojar la perilla de regulación (artículo #7) en el domo frontal del equipo y deslizar la perilla hacia arriba para elevar la varilla de rociado giratorio a su posición más alta, luego ajustar.
6. Prender el suministro de agua y arrancar la lavadora de presión.

NOTA: Siempre es importante probar en una área pequeña para la correcta regulación de la altura necesaria de tal manera que la superficie a ser limpiada no sea dañada.

7. Tirar del gatillo para que el agua empiece a limpiar la superficie.

NOTA: Nunca deje de mover el Sistema de chorro de agua mientras el gatillo está accionado y la superficie está siendo limpiada o podrían ocurrir daños en la superficie.

8. Para usar la pistola en una sola limpieza, revisar el tamaño de boquilla (artículo 24). El chorro de agua es embalado con una boquilla #6; si su lavadora de presión requiere una boquilla más grande, usted necesitará usar la boquilla de la lavadora de presión.

NOTA: Para usar la pistola, tener presente que el Sistema de chorro de agua viene con una boquilla #6 y dos boquillas #3 sobre la placa rotatoria.

INFORMACION DEL CABEZAL DE ALTA PRESION

El cabezal de alta presión del chorro de agua “derramará” agua por debajo de la cubierta de cúpula (artículo 1). Este derrame es normal para el cabezal y derramará incluso más con el agua caliente que con la fría. El cabezal usa agua para lubricar su sello flotante y mantener un desgaste mínimo.

El cabezal de alta presión también está equipado con un accesorio para engrase y deberá ser engrasado por lo menos una vez cada tres meses. Se recomienda una grasa de buena calidad para cojinetes. **NO SOBRECARGUE DE GRASA EL COJINETE!**

La garantía para este cabezal de alta presión es de un año desde la fecha de compra.

LANDA[®]

Form #8.913-945.0 • Revised 9/11 • Printed in U.S.A. by Landa