Bobcat®

# OPERATOR'S MANUAL FOR

# *6902273*

# HOT WATER PRESSURE WASHERS

(UTILIZES EMF SYSTEM PATENT #5,954,494)

C SP US
201473

**⚠ CAUTION**
**RISK OF INJURY!**
**READ MANUAL BEFORE OPERATING!**
**This manual is an important part of the pressure washer and must remain with the unit when you sell or rent it!**

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**⚠ WARNING**

**The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.**

**⚠ WARNING**

This product contains one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.




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**CAUTION**

RISK OF UNIT DAMAGE.

BE CERTAIN THE HOSE, GUN & DUAL LANCE ASSY. ARE NOT CONNECTED TO THE UNIT WHILE PRIMING THE PUMP. PRIMING ALLOWS MINERAL DEPOSITS TO BE RELEASED FROM THE SYSTEM WHICH WOULD OBSTRUCT OR DAMAGE THE GUN AND NOZZLE ASSEMBLY RESULTING IN COSTLY REPAIRS.

## PRIMING THE PUMP:

It is essential to prime the pump and flush the unit each time the water supply has been disconnected from the unit OR whenever the unit has set for any period of time. This unit has a steel coil which, after setting, will cause the water remaining in the coil from the previous usage to turn brown or black. This contaminated water must be flushed from the system before start-up. This procedure should be performed **without** the high pressure hose, gun and dual lance assembly installed.

1. Turn on the water supply.
2. Low pressure water will begin flowing from the water outlet. This allows the unit to prime and purge any air from the system. The unit is primed when water flow is uninterrupted by air.
3. Once the unit is primed, turn off the water supply and connect the high pressure discharge hose to the water outlet of the unit. (Note: The trigger gun and dual lance assembly should already be connected to the high pressure discharge hose at this time.)
4. Turn on the water supply.

***NOTE:*** *The trigger gun and dual lance assembly should already be connected to the high pressure discharge hose at this time.*

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**DANGER**

RISK OF INJECTION CAUSING SEVERE INJURY!

-KEEP CLEAR OF NOZZLE! NEVER PLACE HAND OR FINGERS IN FRONT OF NOZZLE!

-DO NOT DIRECT DISCHARGE STREAM AT PEOPLE OR PETS!

**CAUTION**

RISK OF DAMAGE.

DO NOT ALLOW SPRAY PATTERN TO REMAIN ON A FIXED AREA FOR AN EXTENDED PERIOD OF TIME. POSSIBLE DAMAGE MAY OCCUR TO THE AREA.

## START-UP/COLD WATER OPERATION:

1. Refer to the "Safety Precautions" pgs. 4-7 before starting the unit.
2. Locate the Safety Decals on your unit and heed their warnings.
3. Ensure the burner switch is in the "OFF" position.
4. Pointing the trigger gun in a safe direction, unlock the trigger gun and squeeze the trigger. Hold the trigger gun open while starting the engine according to the manufacture's instructions in the engine manual accompanying this unit.
5. Once the engine has started, ensure the engine throttle is adjusted to full RPM and perform the following procedures with the trigger gun open:
   a. Inspect for system water leaks, oil leaks and fuel leaks. If a fuel leak is found, TURN UNIT OFF IMMEDIATELY! See "Risk of Fire", pg. 4. Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit. If you require service, contact Customer Service.
   b. Inspect high pressure hoses for kinking, cuts and leaks. If a cut or leak is found, DO NOT TOUCH HOSE AT LEAK!!! TURN UNIT OFF IMMEDIATELY! Replace hose before starting the unit. See "Risk of Injection", pg. 5. Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit. If you require service, contact Customer Service.
6. At this point, the unit is operating as a cold water pressure washer. Trigger the gun several times and try adjusting the water pressure. NEVER place hand or fingers in front of the nozzle or look directly into the nozzle! High pressure water creates a risk of severe injury!
7. Do not allow unit to operate in bypass mode (with trigger closed) for more than three minutes without triggering the gun. Failure to follow this simple rule can cause premature failure of pump packings, resulting in costly pump repair.
8. Your pressure washer can deliver high pressure spray and a variety of spray patterns using cold water. If you wish to use the Hot Water application or Cleaning with Detergents, see page 15 for the correct procedures.



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## MAINTENANCE CHART

| PROCEDURE | DAILY | 3 MONTHS | 6 MONTHS | 9 MONTHS | 12 MONTHS |
|---|---|---|---|---|---|
| Check engine oil level | X | | | | |
| Change engine oil***** | | X | X | X | X |
| Check water pump oil level | X | | | | |
| Change water pump oil ** | | X | X | X | X |
| Oil leak inspection | X | | | | |
| Fuel leak inspection | X | | | | |
| Water leak inspection | X | | | | |
| Hose inspection | X | | | | |
| Water inlet filter inspection | X | | | | |
| Check fuel filter/water separator | X | | | | |
| Inspect belt | | | | | |
| Replace high pressure nozzle*** | | X | X | X | X |
| Replace fuel filter/water separator | | X | X | X | X |
| Inspect fuel pump filter* | | | | | X |
| Replace fuel nozzle* | | | | | X |
| Check burner air adjustment | | | | | X |
| Check burner electrodes* | | X | X | X | X |
| Test water pressure* | | | | | X |
| Test fuel pressure* | | X | X | X | X |
| Test water temperature* | | X | X | X | X |
| Descale coil**** | | X | X | X | X |

* Must be performed by an authorized service technician.

** The pump oil must be changed after the first 50 hours of operation and every 250 hours or 3 months, whichever comes first.

*** High pressure nozzle should be replaced whenever pressure is less than 85%.

**** Scale build-up will vary with mineral content in the water and amount of usage. Descaling can range from monthly to yearly maintenance.

***** The engine oil must be changed after the first 8 hours of operation and every 50 hours or 3 months, whichever comes first.



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**PRECAUCIÓN**

**¡Riesgo de daño a la unidad!**
**¡No ajuste en exceso el descargador. Su ruptura puede dar como resultado la perdida inmediata de la presión del agua y por tanto, reparaciones costosas.**

**DESCARGADOR:**
El descargador ha sido preajustado en la fábrica y solo deberá ser ajustado por un Representante de fabricante capacitado para servicio.

**VÁLVULA PARA DISIPAR CALOR:**

Para asegurar que la temperatura del agua derivada no exceda los niveles aceptables, nunca permita que la lavadora a presión opere en función de derivación (con la unidad en funcionamiento y el gatillo cerrado) por más de tres minutos.

Se ha instalado en esta máquina una válvula para disipar el calor y así proteger la bomba. Puede comenzar a abrirse para sacar agua si la temperatura en la bomba ha excedido los 140°F. Esto permitirá que entre al sistema un nuevo suministro de agua fría, impidiendo así la falla prematura de los empaques de la bomba.

**PROCEDIMIENTOS DE INSPECCIÓN ANTES DEL ENCENDIDO:**

Antes de encender la unidad, realice los siguientes procedimientos:

1. Revise el nivel de aceite de la bomba.
2. Revise la malla filtrante de la entrada de agua. Limpie o reemplace de ser necesario. Vea "Suministro de agua", #2, página 33.
3. Revise todas las conexiones de la manguera para asegurarse de que estén bien ajustadas. Vea "Suministro de agua", #3, página 33.
4. Inspeccione para asegurarse que no existan fugas de agua, aceite o combustible del sistema. Si encuentra una fuga de combustible, ¡NO ENCIENDA LA UNIDAD!0 Vea la sección de advertencias de "Riesgo de explosión o incendio" en la página 26. Asegúrese que se hayan reemplazado todas las partes dañadas y se hayan corregido los problemas mecánicos, antes operar de nuevo la unidad. Si requiere servicio, llame a la oficina de Servicio a clientes.
5. Inspeccione las mangueras de alta presión para asegurarse que no tengan dobleces, rupturas o fugas. Si se encuentra una ruptura o fuga, ¡NO USE LA MANGUERA! Reemplace la manguera antes de encender la unidad. Vea "Riesgo de inyección" en la página 27. Asegúrese que se hayan reemplazado todas las partes dañadas y se hayan corregido los problemas mecánicos, antes operar de nuevo la unidad. Si requiere servicio, llame a la oficina de Servicio a clientes.

**AQUÍ TERMINAN LAS INSTRUCCIONES DE PREPARACIÓN**



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