

SUTPHEN CORPORATION SALES TECHNICAL BULLETIN

WATEROUS SHIELD SERIES SPEEDLAY PUMP MODULE

OVERVIEW

Waterous is now offering a new side mount pump module configuration for use on the Shield Series product line. This new configuration utilizes the their S101 pump and fits in the standard 44" wide package. This module has (2) 1.5" speedlays (2" valves/plumbing) stacked one on top of the other with lift-out poly trays. Above the (2) speedlays there will be (1) 2.5" crosslay hose bed (2.5" valve/plumbing/swivel).

This new configuration is currently not in the bid system. To build this pump module, please follow these steps:

1. The standard pump option (#60090005 – PUMP, WATEROUS CSU-1500 SINGLE STAGE) is not replaceable. You must delete the verbiage from the body of this option. You can then hide the pump option from printing on the component list if you desire (select Update/then check "Hide from component listing?" under Print Options/then click Save):

Detail for 60090005: PUMP, WATEROUS CSU-1500 SINGLE STAGE

Assembly Detail

Assembly: 60090005

Description: PUMP, WATEROUS CSU-1500 SINGLE STAGE

Group: 600 PUMP

Last Updated: 04/16/13

Phase: 2000

Standard: STD

Special Item? ☐

Assembly Pricing

Quantity	Price	Extension
1	\$ 3,077.74	\$ 3,077.74

Electrical load, in Amperes

Track load on this assembly?	Total load	Clearing Right-of-Way	Blocking Right-of-Way
<input type="checkbox"/>	0.000	0.000	0.000

Print Options

☒ Hide from component listing?

Update Save Undo Cancel

2. Add a new line item for the pump:
 - A. #60088888 – PUMP, WATEROUS S101 1500GPM, SINGLE STAGE at a cost of \$3,101.01.
 - B. The price shown above to upgrade to this pump module is in addition to the current \$3,077.74 price for the CSU pump (total upcharge price is \$6,178.75 above a CSU-1500 module).

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3. Replace the standard crosslays with option #72828888 – SPEEDLAYS (2) 2" W/1.5" SWIVEL & POLY LIFT-OUT TRAYS. The price for this speedlay option is built into the pump option.

4. Add option #72888888 – 2.5" SINGLE CROSSLAY. The price for this additional crosslay option is built into the pump option.

5. Add option #72988888 – COVER, SINGLE CROSSLAY at a cost of \$482.06. This will capture the additional crosslay cover requires.

On the following page you will find the verbiage to include for each of these options.

**All of these options must be inserted into your SQS to properly configure this pump module.

On the following pages you will also find some guidelines of what discharge options can and can't be done with this compact pump module configuration as well as some 3D images of this new pump module. If you have any questions, please contact your Sales Application Engineer.

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GUIDELINES

Discharges Available:

- (2) 2.5" left side
- (1) 3" right side
- (2) 2.5" right side
- (2) 2" speedlays
- (1) 2.5" crosslay
- (1) 2" front bumper discharge
- (1) 3" deck gun discharge
- (1) 2.5" left rear discharge
- (1) 2.5" right rear discharge
- (1) 2" tank fill
- (1) 3" tank to pump

If foam is desired, there can only be four (4) discharges. Three (3) of them must be the (2) 2" speedlays and the 2" front bumper discharge. The 4th discharge can be either of the 2.5" rear discharges or the 2.5" crosslay.

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PUMP VERBIAGE:

FIRE PUMP, WATEROUS S101C20-1500

The pump shall be a single stage, midship mounted, Waterous S101, 1500 gallon per minute, centrifugal type and shall comply with all applicable requirements of the latest standards for automotive fire apparatus of the National Fire Protection Association.

The pump body shall be Ductile iron and must be Vertically split in two sections for easy removal of the entire impeller shaft assembly.

The discharge manifold shall be 304 Passivated stainless steel and will provide ultimate flexibility in providing various discharge outlets for maximum efficiency.

The impeller shall be a bronze impeller, balanced mechanically and hydraulically for vibration-free operation and flame-plated to assure longer life despite the presence of abrasives in the water supply.

The impeller shaft shall be a Stainless steel shaft and impeller nut with spring-loaded mechanical shaft seal. This self-adjusting mechanical seal eliminates leakage and routine maintenance. A V-ring shall be located on the impeller shaft between the mechanical seal and the transmission oil seal to keep water and foreign matter out of the bearings.

Wear rings shall be bronze labyrinth-type (reverse flow) and shall be easily replaceable to restore original pump efficiency and eliminate the need for replacing the entire pump casing due to wear.

The oil seals shall be single lip spring-loaded design. Deep-groove anti-friction bearings shall give support and proper alignment to the impeller shaft assembly. The bearings shall be oil-splash lubricated and totally separated from the water being pumped, protected by the V-ring and oil seals.

The pump transmission shall be rigidly attached to the pump body assembly and be of the latest design incorporating a high strength, involute tooth form Hy-Vo chain drive capable of operating at high speeds to provide smooth, quiet transfer of power. The shift engagement shall be accomplished by a free-sliding collar and shall incorporate an internal locking mechanism to insure that collar shall be maintained in ROAD or PUMP position.

PUMP SHIFT

The pump shift shall be pneumatically operated and shall use a standard automotive air valve to control a double action air shift cylinder so that the pump shift remains in its latest position in the event of loss of air pressure. The in-cab control valve shall include a detent lock to prevent accidental shifting.

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SPEEDLAY VERBIAGE:

SPEEDLAYS

Two (2) speedlays shall be provided at the front of the module. The piping and valves shall be 2", the swivels shall be 1.5". The valves shall be the "drop-out" style, push/pull controlled from the pump panel. Each compartment shall hold 200 ft. of 1.75" double jacket hose.

Each speedlay shall be provided with a poly, slide-in hose tray.

TOP CROSSLAY VERBIAGE:

CROSSLAY 2.5"

A single 2.5" crosslay hose bed shall be supplied, above the speedlays. The piping and valves shall be 2.5". The swivel shall be 2.5". The valve shall be push/pull controlled from the pump panel.

The crosslay compartment shall hold a minimum of 200 ft. of 2.5" double jacket hose.

TOP CROSSLAY COVER VERBIAGE:

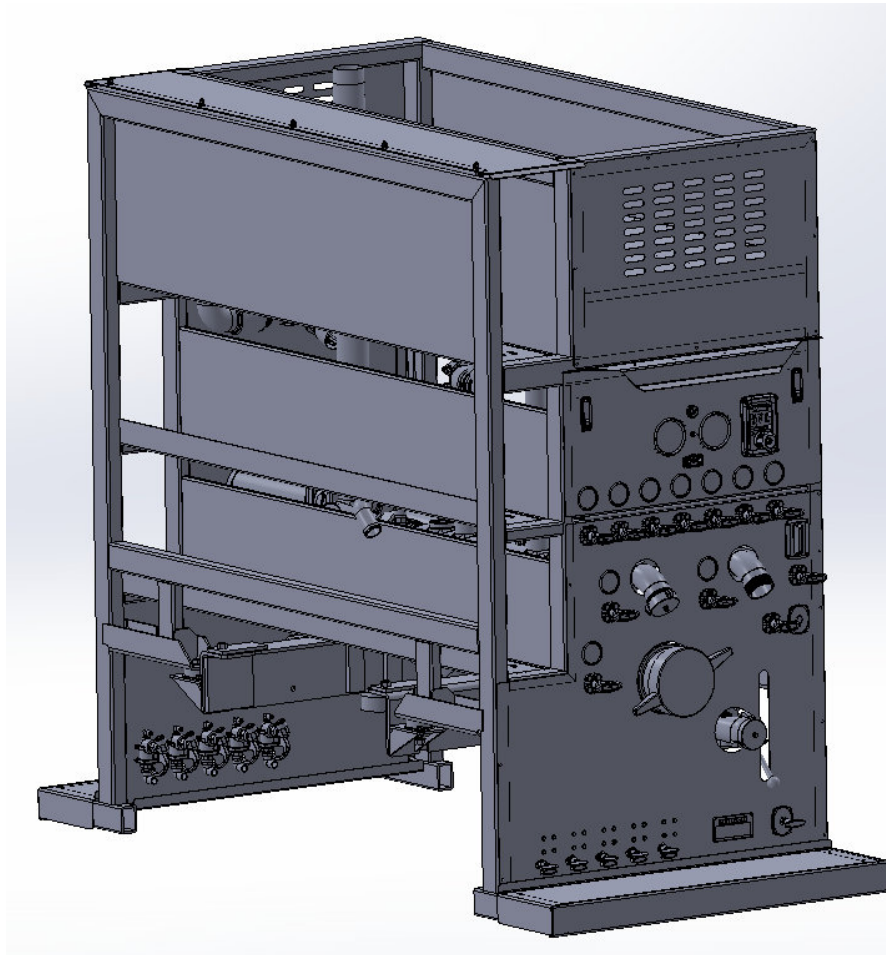
CROSSLAY COVER

A cover shall be provided to enclose the top crosslay compartment. The top shall be enclosed with a hinged aluminum treadplate lid. The sides of the compartment shall be enclosed with vinyl secured to the aluminum treadplate lid at the top and with shock cords at the bottom.

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IMAGES

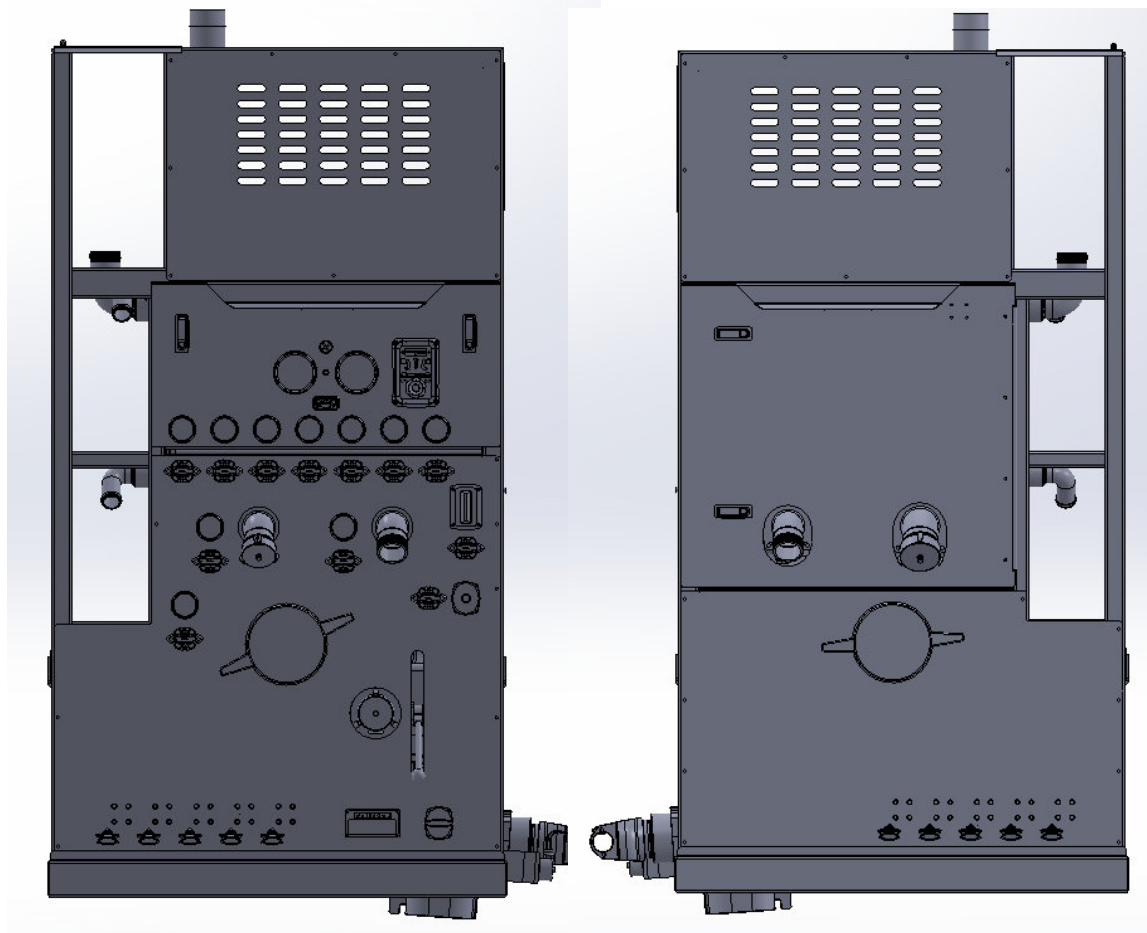


STB-0005 – WATEROUS SHIELD SERIES SPEEDLAY PUMP MODULE

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IMAGES



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