

Town of Simsbury

933 HOPMEADOW STREET

P.O. BOX 495

SIMSBURY, CONNECTICUT 06070

Office of Community Planning and Development

FEB 24 2021 PM 1:34
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Watch meetings LIVE and rebroadcast on Comcast Channels 96, 1090, Frontier Channel 6071 and LIVE streamed or on-demand at www.simsburvtv.org

AGENDA
CONSERVATION COMMISSION/INLAND WETLANDS
AND WATERCOURSES AGENCY
REGULAR MEETING – MARCH 2, 2021 – 7:30 p.m.
The public hearing will be web-based on Zoom at:
<https://zoom.us/j/2574297243>
Meeting ID: 257 429 7243

- I. CALL TO ORDER
- II. ROLL CALL
 - 1. Appointment of Alternates
- III. NEW BUSINESS
 - 1. Receipt of New Applications
 - a. CC 21-01 – 6 Victoria Drive – Application for in ground pool with patio
- IV. OLD BUSINESS
 - 1. None
- V. GENERAL COMMISSION BUSINESS
 - 1. Approval of Minutes from January 19, 2021 Regular Meeting
 - 2. Approval of the Minutes from December 1, 2020 Regular Meeting
- VI. AGENT ACTIONS
 - 1. None
- VII. CORRESPONDENCE
 - 1. None
- VIII. ADJOURNMENT

How to Join us on Zoom for the Public Meeting:

- 1. Join us on the web: <https://zoom.us/j/2574297243>
- 2. Join us by phone: +1 646 558 8656

How to view application materials:

Visit: <https://www.simsbury-ct.gov/conservation-commission-inland-wetlands-agency>

Telephone (860) 658-3245
Facsimile (860) 658-3205

www.simsbury-ct.gov

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8:30 - 7:00 Monday
8:30 - 4:30 Tuesday through Friday



Town of Simsbury

Office of Community Planning and Development - Inland Wetlands Permit Application

DATE: 2/4/21 FEE: \$ 290.00 CK #: 28527 APP #: CC 21-01

PROPERTY ADDRESS: 6 Victoria Lane

NAME OF APPLICANT: Nadia Wright (Juliano's Pools)

MAILING ADDRESS: 321 Talcottville Rd Vernon, CT 06066

EMAIL ADDRESS: NADIA@JULIANOSPOOLS.COM

TELEPHONE # 860-995-4243

NAME OF OWNER: Sandra Wheeler

MAILING ADDRESS: 6 Victoria Lane Simsbury, CT 06092

EMAIL ADDRESS: INFO@MORAWSKICLEANING.COM

TELEPHONE # 860-626-7268

NOTE: ATTACH A WRITTEN LETTER OF AGENCY, DULY ACKNOWLEDGED, TO ACT FOR THE OWNER, INCLUDING THE ABILITY TO CARRY OUT ACTIVITIES SET FORTH HEREIN.

DESCRIBE THE SPECIFIC ACTIVITY(ies) FOR WHICH A PERMIT IS SOUGHT AS IT RELATES TO "REGULATED ACTIVITIES" AS DEFINED IN SECTION 6 OF THE SIMSBURY INLAND WETLANDS REGULATIONS, SUCH AS: A) REMOVE MATERIAL FROM; B) DEPOSIT MATERIAL IN OR DISCHARGE TO; C) CONSTRUCT ON; D) OBSTRUCT; E) ALTER; F) POLLUTE; OR G) OTHERWISE ADVERSELY AFFECT A REGULATED AREA:
Construction of a new 18x36 Rectangle inground pool with patio and 4' self closing self latching safety gate.

CERTIFICATIONS AND PERMISSIONS:

As owner, I hereby give permission to the Town of Simsbury's Conservation Commission Inland Wetlands Watercourses Agency, their Agents, or Town Staff to enter upon my land to make observations and tests as may be necessary to evaluate this application and ongoing work, subject to twenty-four hours notice of such entry/testing.

I hereby certify that all statements herein are true to the best of my knowledge, whether made by me or my agents. Any permit issued shall be contingent upon field conditions and activities being substantiated as indicated herein. A changed situation shall require reconsideration of the permit by the Commission upon discovery by either party.

I certify that I have the authority to sign this application.

Sandra Wheeler
Signature of Owner

2/4/21
Date

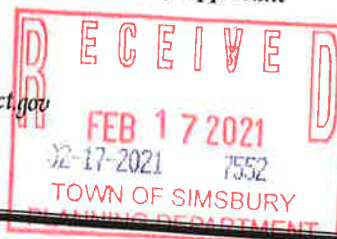
Nadia Wright
Signature and Title of Applicant

2/4/21
Date

Telephone (860) 658-3245
Facsimile (860) 658-3206

www.simsbury-ct.gov

1 of 4



933 Hopmeadow Street
Simsbury, CT 06070
290.00

February 4, 2021

Town of Simsbury Conservation Commission

Subject: Swimming Pool Installation at 6 Victoria Lane

To Whom It May Concern,

The information below pertains to the wet-lands application for 6 Victoria Lane. The application has been filed by Juliano's Pools on behalf of the homeowner, Sandra Wheeler. The application is being filed per the request of the Town of Simsbury to ensure wetlands compliance.

At A Glance

Homeowner: Sandra Wheeler

Address: 6 Victoria Lane Simsbury, CT 06092

Phone: 860-626-7268

Project: Construction of 18 x 36 rectangle including patio and 4' safety fence with self-closing and self-latching gate

Location of Pool/Fence: See attached plot plan. There will be no disturbance within the wetland designation, the area of disturbance will not be greater than 20' around pool edge

Materials: All trucked away by Juliano's

Significant Event Q/A

- Will the proposed activity involve the deposit or removal of material in or near a regulated area? Inside the 100' buffer zone.
- Will the proposed activity change the natural channel or inhibit the natural dynamics of a watercourse system? No
- Will the proposed activity cause any decrease in the natural capacity of a wetlands or watercourse to: support desirable fisheries, wildlife, or other biological life; prevent flooding; supply water; assimilate waste; facilitate drainage; or provide recreation or open space? No
- Will the proposed activity cause turbidity, siltation or sedimentation in a wetlands or watercourse? No
- Will the proposed activity diminish the flow of a natural watercourse or the groundwater levels of the regulated area? No
- Will the proposed activity cause or have the potential of causing pollution of groundwater, a wetlands or watercourse? No
- Will the proposed activity create conditions that may adversely affect the health, welfare and safety of any individual or the community? No
- Will the proposed activity destroy a wetlands or watercourse? No
- Will the proposed activity have a major effect or substantial impact on the area for which this application has been filed or on another part of a wetlands or watercourse? No

Construction Approach

Throughout the construction process at 6 Victoria Lane, Juliano's Pools will use the utmost care to ensure there is zero impact to the nearby wetland area.

The following is an explanation of the various phases of the construction process, the safeguards that will be in place to protect the regulated area, and the type of equipment which will be used for the construction of the Inground swimming pool.

Phase 1 – Excavation

Prior to the start of any excavation, Juliano's Pools will meet all CT Guidelines for Erosion and Sediment Controls. Juliano's Pools will properly erect silt fence and place hay bales as needed to stop any erosion into the wetland area/buffer. The silt fence will be carefully toed in and hay bales will be staked into the ground with wooden plow stakes.

Excavation of the pool will be done by Juliano's Pools. We use no subcontractors for excavation; therefore we are able to better control the project and ensure all workers are aware of the nearby wetland buffers. A Gehl 802 excavator will be used during the excavation phase. Juliano's Pools has an in-house mechanic who meticulously goes through the machine, to ensure there are no oil leaks or leaking hydraulic hoses, on a regular basis. This excavator is also equipped with rubber tracks to help reduce the amount of grass that is torn up and eliminates damage to any paved road.

To reduce risk of erosion, all excess material during excavation will be hauled away, not stock-piled on-site. As the pool is being dug the material is loaded directly into a truck without the material ever hitting the ground. This excess material will be hauled away by a tri axle dump truck.

Phase 2 – Wall Erection

During this phase of construction, no equipment will be used. The only vehicle entering the property will be a concrete truck to pour the footing for the pool.

Phase 3 – Electrical Work

A mini excavator with a 1' wide bucket and rubber tracks will be used to dig the trench for the electrical conduit from the house to the equipment.

Phase 4 – Plumbing

No equipment will be used during this phase

Phase 5 – Vermiculite Pool Bottom

A small paddle mixer will be used to mix the vermiculite.

Phase 6 – Liner Installation

No equipment will be used during this phase

Phase 7 – Pool Backfill

To backfill the pool, we will use a Takeuchi skidsteer. This machine has rubber tracks on it to minimize impact on any areas where it travels. Any sand needed to backfill the pool will be brought in by Tri axle dump truck and spread immediately, no stock piling of material will be done.

Phase 8 – Pool Decking / Fence / Landscaping

After the pool is backfilled the concrete decking will be poured. For this, a concrete truck will once again access the property to pour the concrete. Once the concrete is completed, we will come back to fine grade the yard. To do this grading we will bring in the Takeuchi skidsteer again. During this phase we will also be spreading topsoil. The silt fence and hay bales will stay in place until grass is established.

The fence will be installed once the grading is done so it can be set to the proper height.

Phase 9 – Pool Operation/Maintenance

Ongoing pool operation and maintenance will have no impact to the property or wetlands. We own water trucks and can haul away water in the fall when we pump approximately 6" of water out of the pool for winterization. This water can be repurposed and put into other new swimming pools.

In conclusion, Juliano's Pools will exercise a tremendous amount of care to ensure that there is no negative impact to the regulated area throughout the construction process. The biggest reason we can ensure this is that we unprecedentedly haul away ALL material leaving only a virgin ground hole. We have been installing inground pools for 20 years with many of them being within regulated wetlands area. Juliano's has successfully sought over 100 permits with similar or greater wetland intrusion in Hartford, Tolland, Windham, Middlesex, New Haven, and Litchfield counties in Connecticut. All such jobs were executed professionally and flawlessly.

If you have any questions, please feel free to contact Brian Juliano (Owner/Founder) on his personal cell phone day or night at (860) 729-6869 or me at (860) 870-1085.

Sincerely,



Bryan Cormier Project Manager

2' Radius
18' x 36'

Legacy
edition

PART DESCRIPTION	PART #	NO STAIRS
1' PLAIN PANEL	04101	1
2' PLAIN PANEL	04102	1
3' PLAIN PANEL	04103	1
4' PLAIN PANEL	04104	1
5' PLAIN PANEL	04105	1
6' PLAIN PANEL	04106	1
7' PLAIN PANEL	04107	1
8' PLAIN PANEL	04108	1
9' PLAIN PANEL	04109	1
10' PLAIN PANEL	04110	1
11' PLAIN PANEL	04111	1
12' PLAIN PANEL	04112	1
13' PLAIN PANEL	04113	1
14' PLAIN PANEL	04114	1
15' PLAIN PANEL	04115	1
16' PLAIN PANEL	04116	1
17' PLAIN PANEL	04117	1
18' PLAIN PANEL	04118	1
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20' PLAIN PANEL	04120	1
21' PLAIN PANEL	04121	1
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23' PLAIN PANEL	04123	1
24' PLAIN PANEL	04124	1
25' PLAIN PANEL	04125	1
26' PLAIN PANEL	04126	1
27' PLAIN PANEL	04127	1
28' PLAIN PANEL	04128	1
29' PLAIN PANEL	04129	1
30' PLAIN PANEL	04130	1
31' PLAIN PANEL	04131	1
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94' PLAIN PANEL	04194	1
95' PLAIN PANEL	04195	1
96' PLAIN PANEL	04196	1
97' PLAIN PANEL	04197	1
98' PLAIN PANEL	04198	1
99' PLAIN PANEL	04199	1
100' PLAIN PANEL	04200	1

**DIVING PERMITTED ONLY FROM
DESIGNATED DIVING AREA.**

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" thick.
2. Backfill with clean earth, free of rocks and debris.
3. Set concrete curb to be poured at least 3" thickness and a slope of 1" to 4" to the outside.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed sandy fine, with bumps, is to be permanently attached 1" to the inside of the pool.
6. A safety line, with bumps, is to be permanently attached 1" to the outside of the pool.
7. Construction Drawing: Different methods and procedures may be used by the manufacturer. This is to be determined by and in accordance with the manufacturer's instructions.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as ANSI/APSP suggested standards.

The bottom construction shown conforms with ANSI/APSP suggested standards for a 2' radius pool. The bottom construction shown is not to be used for a 1' radius pool. The bottom construction shown is not to be used for a 3' radius pool.

FROM A TO:

D	40'-0"
H	10'-0"
J	1'-0"
K	1'-0"
L	1'-0"

FROM B TO:

G	40'-0"
H	25'-0"
J	1'-0"
K	1'-0"
L	1'-0"

FROM C TO:

B	40'-0"
H	17'-0"
J	1'-0"
K	1'-0"
L	1'-0"

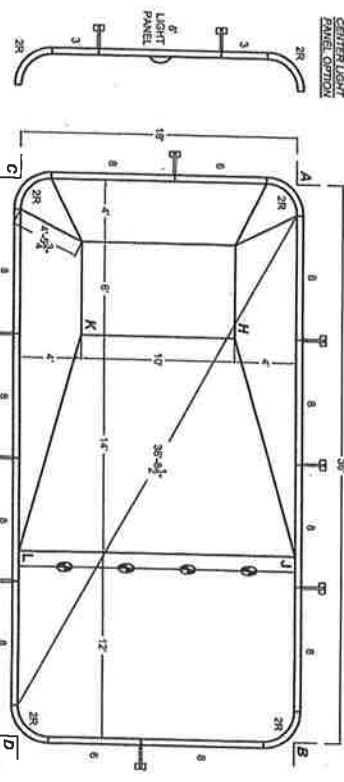
FROM D TO:

A	40'-0"
H	25'-0"
J	1'-0"
K	1'-0"
L	1'-0"

**E PLASTIC SIDE STEP OPTION
(RIGHT SIDE SHOWN)**

B STEEL STAIR OPTION

E PLASTIC SIDE STEP OPTION



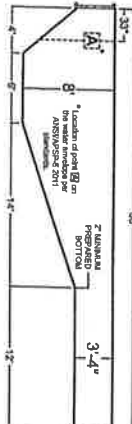
P - A-FRAME BRACE

SF - RECTANGLE STAR FILLER

SS - S SIDE STAIR PANEL

**B STEEL STAIR OPTION
(LEFT SIDE SHOWN)**

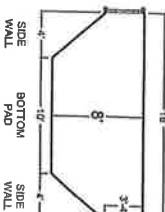
**RECTANGLE STAR FILLER
LEFT - 04206
RIGHT - 04207**



BACK BOTTOM PAD

SLOPE

SHALLOW END



SIDE BOTTOM PAD

SIDE WALL

ALL DIMENSIONS ARE FINISH DIMENSIONS

Volume: 21400 gal / 81000 L

Perimeter: 104' - 7" / 31.87 m

Surface Area: 644.57 ft² / 59.87 m²

Liner Sq. Ft.: 648.0000

HAROLD R. SANDERSON, C. E. & L. S. BLOOMFIELD, CON

BY J.A.E. DATE 3-30-63 SUBJECT SURVEY LOT # 12

SCALE 1" = 40'

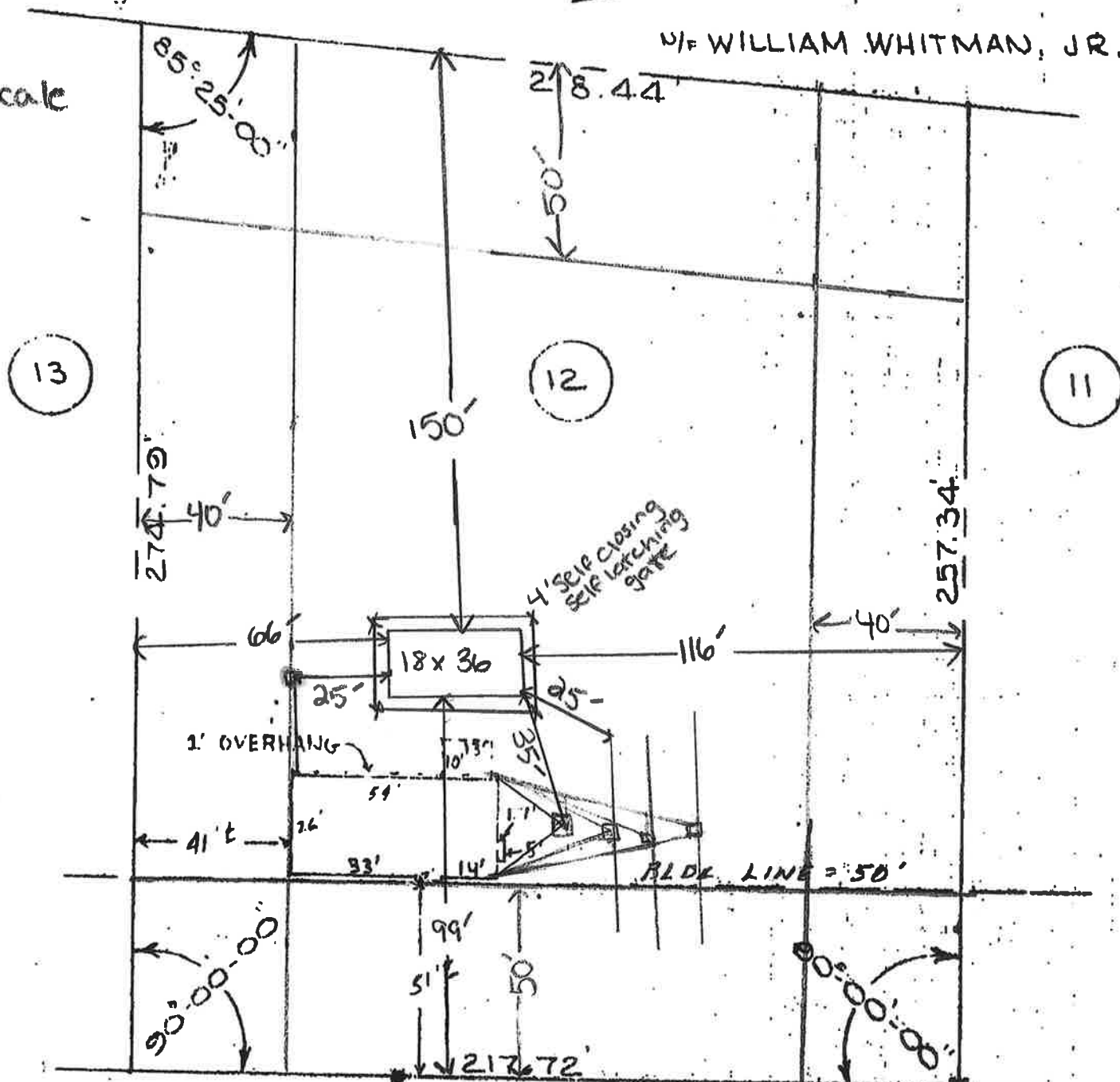
FDN CHKD. BY ERB DATE 6-19-68 VICTORIA LANE
SIMSBURY, CONN.

JOB MAJOREE
ACRES

Entire property
within wetlands

W/F WILLIAM WHITMAN, JR.

1" = 40' Scale



VICTORIA LANE

THIS SURVEY IS CERTIFIED TO
BE SUBSTANTIALLY CORRECT.
NO ZONING REGULATIONS ARE
VIOLATED.

Harold R. Sanderson



Letter Of Authorization

I, as owner of subject property, hereby authorize any Juliano's Pools Inc. personnel, to act on my behalf to pull an in-ground swimming pool building permit (and including any/all matters relevant to work authorized by this building permit), using as necessary his/her/their home improvement contractor license, plumbing and piping limited contractor license, electrical contractor license and swimming pool builder in-ground license.

Customer Name: Sandra Wheeler

Customer Phone: 860-626-9268

Address: 6 Victoria Ln
W. Simsbury, CT. 06092

Thank you for your consideration in this matter.

Sincerely,

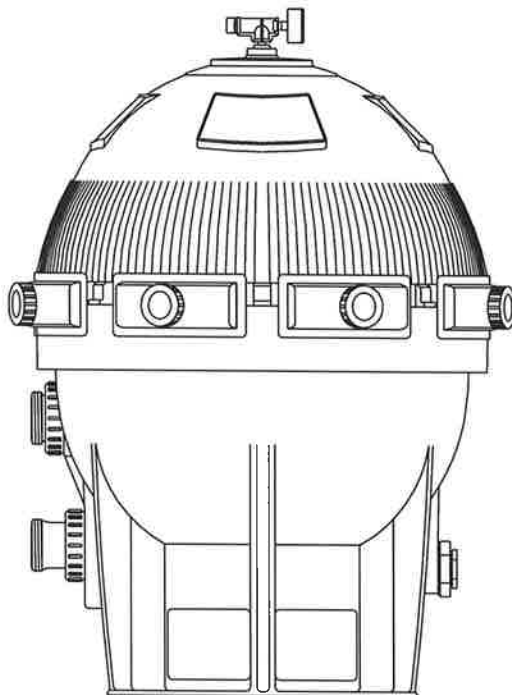
(signature)



STA-RITE®

MODULAR DE FILTERS

OWNER'S MANUAL



INSTALLATION, OPERATION & PARTS



MODELS

S7MD60

S7MD72

This manual should be furnished to the end user of this filter; its use will reduce service calls and chance of injury and will lengthen filter life.

Pentair Water Pool and Spa, Inc.

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1620 Hawkins Ave., Sanford, NC 27330 • (919) 566-8000

10951 West Los Angeles Ave., Moorpark, CA 93021 • (805) 553-5000

Customer Support: (800) 831-7133

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4/20/12

S596 (Rev. D)

ENGLISH

FRANÇAIS

ESPAÑOL

MODULAR DE FILTERS

To avoid unneeded service calls, prevent possible injuries, and get the most out of your filter, READ THIS MANUAL CAREFULLY!

The Sta-Rite System 3 Modular DE Filter:

- Is designed to filter water for swimming pools.
- Is an excellent performer; durable, reliable.

Table of Contents

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READ AND FOLLOW SAFETY INSTRUCTIONS!

⚠ This is the safety alert symbol. When you see this symbol on your filter or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

⚠ DANGER warns about hazards that will cause death, serious personal injury, or major property damage if ignored.

⚠ WARNING warns about hazards that can cause death, serious personal injury, or major property damage if ignored.

⚠ CAUTION warns about hazards that will or can cause minor personal injury or property damage if ignored.

NOTICE indicates special instructions not related to hazards.

Carefully read and follow all safety instructions in this manual and on equipment. Keep safety labels in good condition; replace if missing or damaged.

⚠ WARNING Hazardous pressure. Incorrectly installed or tested equipment may fail, causing severe injury or property damage. Read and follow instructions in owner's manual when installing and operating equipment. Have a trained pool professional perform all pressure tests.

1. Do not connect system to a high pressure or city water system.
2. Use equipment only in a pool or spa installation.
3. Trapped air in system can cause explosion. BE SURE all air is out of system before operating or testing equipment.
4. DO NOT pressure test with compressed air!

Before pressure testing, make the following safety checks:

- Check all clamps, bolts, lids, and system accessories before testing.
- Release all air in system before testing.
- Tighten Sta-Rite trap lids to 30 ft. lbs. (4.1 kg-cm) torque for testing.
- Water pressure for test must be less than 25 PSI (172 kPa).
- Water Temperature for test must be less than 100° F. (38° C).
- Limit test to 24 hours. After test, visually check system to be sure it is ready for operation. Remove trap lid and retighten hand tight only.

NOTICE: These parameters apply to Sta-Rite equipment only. For non-Sta-Rite equipment, consult equipment manufacturer.

	<p>⚠ WARNING</p> <p>If filter clamps are adjusted or removed under pressure, tank may explode, causing severe injury or major property damage.</p>	<p>BEFORE WORKING ON FILTER:</p> <ol style="list-style-type: none"> 1. Stop pump. 2. Open air release valve. 3. Release all pressure from system.
	<p>⚠ WARNING</p> <p>Filter pumps require hazardous voltage which can shock, burn, or cause death.</p>	<p>BEFORE WORKING ON PUMP OR MOTOR</p> <p>Disconnect power to motor at main circuit breaker. Discharge motor capacitor to ground.</p>


GENERAL INFORMATION


- Clean a new pool as well as possible before filling pool and operating filter. Excess dirt and large particles of foreign matter in the system can cause serious damage to the filter and pump.
- With a diatomaceous earth (DE) filter system in place and operating correctly, clean water is returned to the pool faster than pool water is being contaminated. A typical pool installation will require approximately one week to obtain and maintain the sparkle that your filter is capable of giving you.
- DO NOT use more than the recommended amount of DE in your filter. To do so can cause a buildup of DE and "bridging" between the elements which will plug the filter.


WARNING

**Hazardous pressure.
Can cause severe
injury or major
property damage
from tank blow up.**

Release all pressure
and read instructions
before working on filter.


 If filter is improperly disassembled or assembled, it can explode under pressure! To avoid danger of severe injury or major property damage, always follow service instructions in this manual when working on filter!

 NEVER operate this filter system at more than 50 pounds per square inch (50 PSI/345kPa) pressure! Be sure filter pressure gauge operates when system is operating. If pressure gauge is damaged or does not work, replace it.

 Purge all air from system before operating system. NEVER operate filter with air trapped inside.

- On a new pool installation, we recommend:

1. Disassemble the filter after the initial cleanup.

 To prevent severe injury or major property damage, exactly follow "Filter Disassembly/Assembly Procedure" on Page 8.

2. Remove and hose down the module to remove contaminants.

- It is a good idea to remove the module once a year and soak it in a filter cleaning solution to remove accumulated body oils, etc.; see Page 11, "Special Cleaning Instructions".
- Cleaning interval is based on pressure differential, not on length of time filter is operated. Different water conditions will have different normal cleaning intervals. If backwashing filter is not possible, use "Module Cleaning Procedure", Page 10, at regular intervals to clean filter.
- Check local codes for restrictions on backwash to waste piping, separation tank requirements and spent D.E. disposal requirements.

INSTALLATION

Installation of filter should only be done by qualified, licensed personnel.

Filter mount must:

- Provide weather and freezing protection.
- Provide space and lighting for easy access for routine maintenance. (See Figure 1 and Table II, Page 6, for space requirements.)
- Be on a reasonably level surface and provide adequate drainage.
- Be as close to pool as possible to reduce line loss from pipe friction.

Piping:

- Piping must conform to local/state plumbing and sanitary codes.
- Use thread seal tape or equivilant on all male connections of plastic pipe and fittings. DO NOT use pipe compounds on plastic pipe; it will cause the pipe to crack. Do not use sealant on unions—assemble them dry and hand tight.
- Support pipe independently to prevent strains on filter or valve.
- Use 2" (51mm) pipe to reduce pressure losses as much as possible.
NOTICE: Filter may be located away from pool, but for adequate flow larger pipe may be needed. Check local codes for remote installation.
- Fittings restrict flow; for best efficiency use fewest possible fittings.
- Keep piping tight and free of leaks: pump suction line leaks may cause trapped air in filter tank or loss of prime at pump; pump discharge line leaks may show up as dampness or jets of water.
- NOTICE: Overtightening can crack filter ports.

Valves:

- A check valve installed ahead of filter inlet will prevent contaminants from draining back into pool.
- A check valve installed between filter and heater will prevent hot water from backing up into filter and deforming internal components.
- For installation allowing backwashing, install Sta-Rite Two Position Slide Valve or Multiport Selector Valve with filter. See Table I. If you intend to clean your filter according to "Module Cleaning Procedure", Page 10, no slide or multi-port valve is required. See Figures 1 and 2, Page 6, for correct water flow when connecting pipe.
- Filter ports and valve ports are furnished with union connections. DO NOT use pipe sealants on union collar (nut).
- Use care before assembly not to damage union sealing surfaces or O-Ring.
- To allow recirculation during precoat (if precoat pot is used), install a recirculation line with shut-off between pad return line and pump suction.

Electrical

- All wiring, grounding and bonding of associated equipment must meet local and/or National Electrical Code standards.

TABLE I - Sta-Rite valves for use with Model S7MD60 and S7MD72 filters

Port Size	Part Number
2"	Multi-port 18201-0300
2"	Plastic Slide 263053

NOTICE: Use of valves other than those listed above could cause reversed water flow through filters and damage to internal filter components.

SPECIFICATIONS

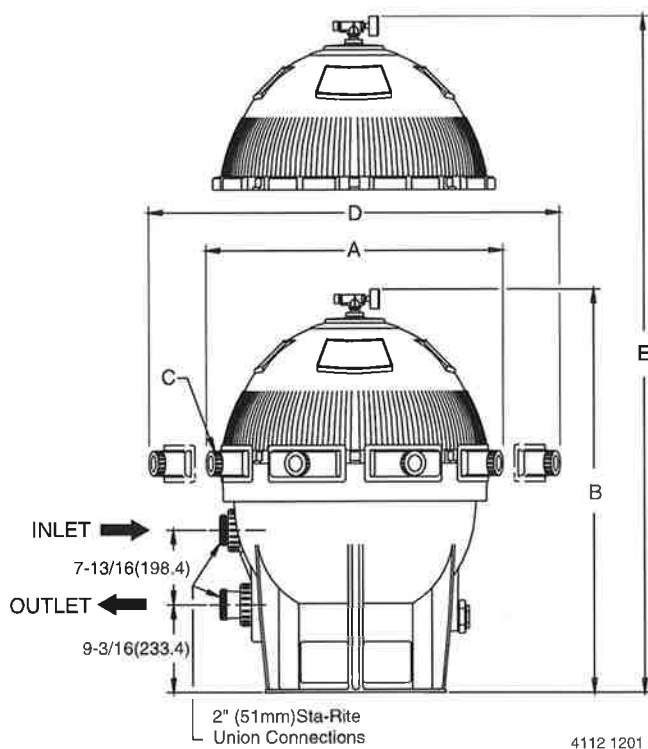


FIGURE 1 – Dimensions in inches (mm)

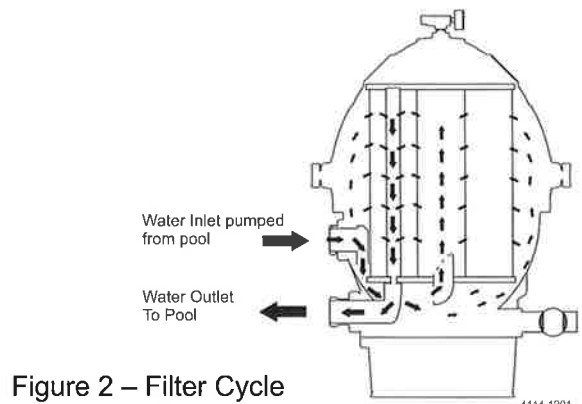


Figure 2 – Filter Cycle

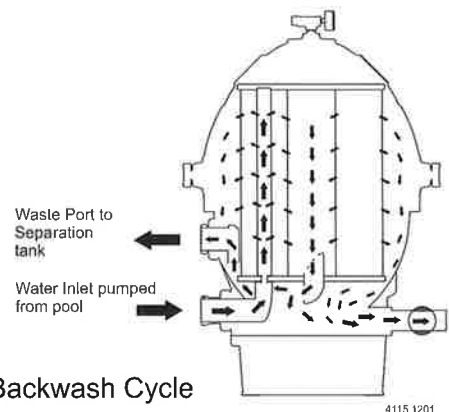
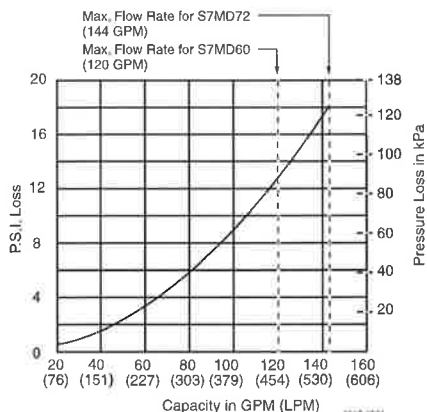


Figure 3 – Backwash Cycle



Pressure Drop Curve

TABLE II - SPACE REQUIREMENTS IN INCHES (MM)

A	B	C*	D	E
28½(724)	42(1067)	7	36(914)	53½(1359)

* Number of clamps.

TABLE III - APPROVED DE CLEANERS

Consult your pool service professionals for pool industry recommended filter cleaners.

TABLE IV - FILTER SPECIFICATIONS & OPERATING INFORMATION

Filter Model:	S7MD60	S7MD72
Filter Area in Sq. Ft. (M ²)	60 Sq. Ft. (5.57)	72 Sq. Ft. (6.69)
Lbs. (Kg) of D.E. Used	9.0 (4.1)	11.0 (5.0)
Max. Flow Rate in GPM (LPM)	120 (454)	144 (545)
NSF Public Pool Flow Rate in GPM (LPM)	120 (454)	144 (545)
Max. Operating Pressure in PSI (kPa)	50 (345)	50 (345)

NOTICE: 1/2 pound of DE will fill a one-pound coffee can.

WARNING



**Hazardous pressure.
Can cause severe
injury or major
property damage
from tank blow up.**

Release all pressure
and read instructions
before working on filter.

INITIAL START-UP



Be sure pump is OFF before starting procedure.



Do not operate these filters at more than 50 PSI (345 kPa) under any circumstances!

CAUTION

To prevent serious damage to the module fabric, NEVER run your DE filter without a diatomaceous earth precoat!

CAUTION

To avoid damage to internal filter components, never change handle position on control valve while pump is running.

1. Make sure all clamps are in place and knobs are securely hand-tight.
2. Set valve to 'filter' position.
3. Fill trap on pump with water.
4. Open air release valve on top of filter assembly (Key No. 3, Page 14).
5. Start pump to purge air from system.
6. When steady stream of water comes from air release valve, close the valve.
7. To prepare precoat slurry, mix diatomaceous earth (DE) and water. See Table IV or instruction decal on filter shell for amount of DE to use.
8. Empty slurry slowly into skimmer to precoat filter element with an even filtering cake.



Close valve before air is drawn into system.

NOTICE: To avoid clogging the filter, do not use more DE than is specified in Table IV.

After filter is operating, record filter pressure gauge reading in owner's manual for future reference on when to clean filter.

NOTICE: When installed on a new pool, after approximately 48 hours of operation disassemble filter and clean out accumulated debris (see "Module Cleaning Procedure", Page 10).



To avoid severe injury or major property damage, exactly follow instructions under "Filter Disassembly/Assembly" (Page 8)!

FILTER DISASSEMBLY/ ASSEMBLY PROCEDURE

⚠ CAUTION To avoid equipment damage and personal injury, never change handle position on control valve while pump is running.

BEFORE DISASSEMBLING FILTER:



1. STOP PUMP.

2. OPEN air release valve and drain fitting.

3. WAIT until all pressure is released and water drained from filter tank and system before loosening clamp knobs.

Disassembly:

1. Backwash filter according to instructions under "Filter Backwash Procedure", Page 9.

2. Stop pump.

3. Open air release valve (Key No. 3, Page 14) on top of filter tank to release all air pressure from inside of tank and system.

4. Remove filter drain plug and drain all water from tank.

5. To equalize flange stresses, loosen clamp knobs alternately (that is, on opposite sides of tank) around tank. Remove clamps.

6. Being careful not to damage tank O-Ring (Key No. 8, Page 14), lift upper tank shell (Key No. 7, Page 14) off lower tank shell (Key No. 21, Page 14).

Assembly:

1. Remove O-Ring slowly to avoid stretching or tearing it.

2. Inspect tank O-Ring (Key No. 8, Page 14) for cuts, nicks, etc. If O-Ring is damaged, deformed, or has lost its resiliency, replace with a new one.

3. Clean O-Ring area of tank shell (both halves) and O-Ring.

4. Carefully install O-Ring and upper tank shell (Key No. 7, Page 14) on tank bottom (Key No. 21, Page 14).

NOTICE: Do not lubricate O-Ring. Lubricants attract dirt and grit and may (especially when petroleum based) damage O-Ring and void warranty.

NOTICE: Be sure upper tank shell contacts O-Ring surface evenly and seal area is clean and free from dirt.

5. Install clamp bolts and clamps. Do not tighten clamps yet.

6. See Figure 4 for clamp tightening sequence. Tighten all clamp knobs securely hand tight.

NOTICE: To equalize stresses on tank, be sure to tighten clamps in sequence shown. DO NOT work your way around the filter tightening adjacent clamps.

7. Install air relief valve and gauge assembly on tank.



CLEANING THE FILTER

When to Clean:

NOTICE: If installation does not allow backwashing, use module cleaning procedure regularly (see Page 10).

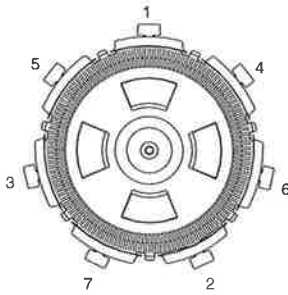


FIGURE 4 - 21" Filter clamp tightening sequence.

1. With a new filter:

- A. Record filter operating pressure at startup. When pressure reaches 10 PSI (69kPa) above startup operation pressure, stop pump for 30-60 seconds to allow filtering cake to release.
- B. Restart pump to form new cake. Pressure should now be less than 10 PSI (69kPa) above startup operating pressure.
- C. If pressure is still more than 10 PSI (69kPa) above startup operating pressure, backwash filter (see below).

- 2. Thoroughly clean air bleed assembly (Key No. 9B, Page 14) on top of filter module EVERY time filter is opened. Be sure to remove all debris from screen. Replace screen if damaged.
- 3. At least twice a year, manually clean filter module according to instructions, Page 10. At least once a year, follow instructions under "Special Cleaning Instructions", Page 11, as well.

Filter Backwash Procedure:

▲ CAUTION To prevent equipment damage and possible injury turn pump OFF before changing valve position.

NOTICE: Before backwashing with a separation tank, review separation tank owner's manual for instructions.

- 1. Stop pump.
- 2. Change valve position.
 - A. If using Multi-port Valve, set it to backwash position.
 - B. If backwashing with a Two Position Slide Valve, push handle to full down position.
- 3. Start pump and run it for 3 minutes.
- 4. Stop pump and open tank bottom side drain.
NOTICE: A 1-1/2" drain valve is recommended.
- 5. Start pump and run 1 minute, backwashing through filter valve and tank drain.
- 6. STOP PUMP, return filter valve to filter position and close tank drain.
NOTICE: Do not vacuum pool while backwashing filter.
- 7. Compare pressure reading on gauge with reading recorded after initial startup. The two readings should be very close; if not, do "Module Cleaning Procedure", Page 10.

WARNING

**Hazardous pressure.
Can cause severe
injury or major
property damage
from tank blow up.**

Release all pressure
and read instructions
before working on filter.


When to Clean the Filter

The filter module should normally be cleaned when the pressure gauge reading increases 10 PSI over the start-up pressure (record the start-up pressure in a convenient place).

In some pools, accessories such as fountains or pool cleaners may be noticeably affected by the normal decrease in flow as the filter becomes dirty. If so, clean the filter more frequently (that is, at a pressure increase of less than 10 PSI) in order to maintain the required flow.

Specialty Filter Cleaners
Consult your pool service
professionals for pool
industry recommended
filter cleaners.

MODULE CLEANING PROCEDURE

 **WARNING** Risk of chemical burns. Do not attempt to acid clean the filter or module. If the filter requires acid cleaning, have a trained pool professional do the job.

Follow all steps in the “Disassembly” section of this manual.

The filter module should be removed and cleaned when pressure rises more than 10 psi (69 kPa) above startup pressure. See also “When to Clean the Filter,” at left.

NOTICE: Do not expose the filter module to sunlight for any extended period of time.

NOTICE: When sanitizing your pool using PHMB (polyhexamethylene biguanide based) cleaners, use only PHMB cleaners to clean the module. When using PHMB sanitizers, the filter module **MUST** be cleaned more thoroughly and frequently than for a pool using chlorine. Follow manufacturer’s instructions carefully. Use of any other type of cleansers with PHMB pool sanitizers will void the filter’s warranty.

NOTICE: Avoid washing filter debris into the outlet port. Remove drain plug and flush dirt from inside of tank before removing filter module.

1. With a hose equipped with a soft flow nozzle, wash as much dirt as possible off of the filter module while it is still inside the tank. Allow tank to drain completely.
2. Make sure that the inside of the tank is clean. Lift out the module and hose it down thoroughly. Spray the entire module surface. Allow module to drain.
3. Inspect the module. If necessary, repeat the washing operation. If the module is damaged, replace it.

NOTICE: If this cleaning method does not remove all deposits, see “Special Cleaning Instructions” section in this manual.

4. Inspect and clean air bleed filter at top of module.
5. Follow all steps in the “Assembly” and “Initial Startup” sections of this manual.



Special Cleaning Instructions:

Use this procedure to clean scale or oils which are not removed by hosing down module. Be sure to dispose of spent chemicals according to all applicable codes and waste disposal ordinances. Use a soft stream nozzle to minimize flying water and spray.

Risk of fire or explosion. Isolate filter from system before chemical cleaning; rinse filter and elements completely before returning to service. If filter cannot be isolated, remove media and clean at another location. Follow chemical manufacturer's instructions for use. Do not mix chemicals except as directed by manufacturer. Do not allow cleaning chemicals to mix with or to come in contact with chlorine, bromines, other chemicals, or chemical feed devices.

1. Sponge or spray the module according to chemical manufacturer's directions.
2. If soaking is required, remove the module from the filter tank and submerge it in a separate tank. Follow cleaner manufacturer's instructions carefully.
3. After completing chemical manufacturer's instructions, drain and rinse the module completely. Dispose of cleaners in accordance with local codes and disposal ordinances.
4. Rinse the inside of the filter tank. Drain it completely.
5. Follow instructions in the "Assembly" and "Initial Startup" sections of this manual.

SYSTEM INSPECTION

General:

Wash the outside of the filter with a mild detergent and water. Rinse off with a hose.

NOTICE: DO NOT use solvents to clean the filter; solvents may damage plastic components in the system.

NOTICE: Open the filter air release valve and release all air from the filter each time the pump is stopped and restarted.

Weekly Inspection:

1. Remove debris from the pool skimmer basket.
2. Stop the pump; open the air release valve to release all pressure.
3. Remove the trap cover and basket; remove debris.
4. Check the pump for leaks. If found, see the pump owner's manual.
5. Replace the trap basket and the cover. Tighten the cover securely hand tight. DO NOT use a lid wrench to tighten it.
6. Start the pump. When the filter air release valve runs a solid stream of water, close the valve.
7. When the system has returned to normal operation, check the filter pressure. If the filter pressure is 10 PSI (69kPa) or more higher than the initial startup pressure, the filter needs cleaning. See "Cleaning the Filter", Page 9.

WINTERIZING

⚠ WARNING Explosion hazard. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.

NOTICE: Protect the filter from freezing. Allowing the filter to freeze will damage it and will void the warranty.

NOTICE

The filter outlet piping will not empty through the filter drain. Make sure that the outlet piping has a separate drain for winterizing.

1. Clean the filter according to instructions (Page 10) before winterizing. Do not winterize with DE precoat on cartridge or with residual in tank.
2. Stop the pump.
3. Open the air release valve; open all the system valves.
4. Remove the drain plugs from the trap, pump, and filter.
5. Drain the system piping.
 - A. Gravity drain system as far as possible.
 - B. Protect areas which retain water with non-toxic propylene glycol antifreeze ("RV antifreeze").
6. Loosen the union nuts (if used) to drain all water from the filter interior. Leave these nuts loose until the system is restarted.
7. Disassemble the filter (follow instructions under "Filter Disassembly", Page 8). Remove the filter module and store it in a warm, dry area. Be sure to store the cartridge where it will not be in sunlight.
8. Be sure to allow any water trapped in the tank to drain out.
9. Cover the filter with plastic or tarpaulin to prevent water entrance and freezing.

TROUBLESHOOTING GUIDE

1. Short Cycle Time:

NOTICE: Cycle Time will vary with each installation and between different areas of the country. The following causes and remedies are for cycle times shorter than normal for your area.

- A. Chlorine residual too low; maintain proper residual (consult pool professional for recommendation).
- B. Flow rate too high; restrict flow to rated capacity of filter (see instruction plate on filter or specifications on Page 6).
- C. Filter is too small; install an additional filter.
- D. Improper/insufficient precoat; see precoat instructions under "Initial Setup" (Page 7).
- E. Filter module is dirty or plugged; thoroughly clean the filter (see No. 4, "Plugged Module Cloth" (below), and "Module Cleaning Procedure", Page 10).
- F. Too much DE; check for clogged filter module.
- G. Water is chemically out of balance; consult pool professional.
- H. Algae in the pool. Apply heavy dose of chlorine or algicide as recommended by the pool manufacturer.

2. Low Flow/High Pressure:

- A. Filter Module plugged; clean module thoroughly (see Pages 10 and 11).
- B. Pipe blocked downstream from filter; remove obstruction.
- C. Piping too small; use larger pipe (consult dealer for sizing).
- D. Filter area too small; install an auxiliary filter (consult dealer for recommendation).
- E. Outlet port check valve obstructed (if applicable); remove obstruction to allow valve to open.

3. Low Flow/Low Pressure:

- A. Pump too small; consult dealer for recommendations.
- B. Plugged pump or plugged hair and lint trap; clean thoroughly.

4. Plugged Module Cloth:

NOTICE: The pleated filter material may look matted after use. However, as long as the DE adheres to the pleated cloth, the filter is operating properly.

- A. Insufficient precoat; see precoat instructions (Page 7).
- B. Insufficient cleaning; follow cleaning instructions

closely and clean thoroughly (see Pages 10 and 11).

- C. Water is chemically out of balance; consult pool professional.
- D. Excessive air in filter; non-precoated areas may plug. Vent air from tank and check for pump suction pipe leaks. Clean air bleed filter in grid assembly with a hose and soft flow nozzle.
- E. Filter is too small. Install an additional filter.
- F. Pool water contains iron. See "Special Cleaning Instructions", Page 11.
- G. Algae in pool. Apply heavy dose of chlorine or algicide as recommended by the pool manufacturer.
- H. Use of incorrect chemicals with PHMB sanitizers. Replace filter module.
- I. Not enough D.E. precoat. See Table IV, Page 6.

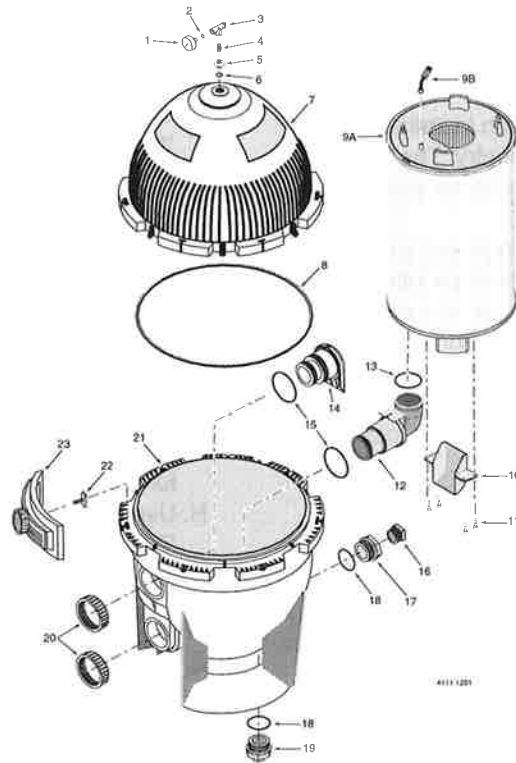
5. Pool Water Not Clean:

- A. Chlorine residual too low; maintain adequate chlorine residual (consult pool service technician for recommendation).
- B. Broken filter module passing DE into pool; replace defective module.
- C. Insufficient or improper precoat; follow precoat instructions and use recommended amount of DE (see Pages 6 and 7).
- D. Inadequate turnover rate; consult dealer to verify that equipment is properly sized for your pool.
- E. Pump is too large and is overpumping. Reduce the flow rate.
- F. The filter inlet and outlet are plumbed backwards. Re-plumb them correctly.
- G. Pool water contains iron. See "Special Cleaning Instructions", Page 11.
- H. Heavy or improper application of powdered chlorine tablets using a binder. See "Special Cleaning Instructions", Page 11.
- I. Algae in the pool. Apply heavy dose of chlorine or algicide as recommended by the pool manufacturer.

6. Pool Accessories Stop Working:

- A. Clean filter and observe performance of accessories.
- B. If accessories perform better after filter has been cleaned, use a shorter cleaning cycle for the filter (that is, clean the filter after a pressure rise of less than 10 PSI).

MODELS
S7MD60
S7MD72



REPAIR PARTS LIST

Key No.	Part Description	Model No.	
		S7MD60	S7MD72
1	2 Inch Gauge	33600-0023T	33600-0023T
2	Screen Filter	WC8-72D	WC8-72D
3	Air Release Valve	WC212-120P	WC212-120P
4	Close Nipple 1/4 in.	35202-0959	35202-0959
5	Adapter Bushing	24900-0504	24900-0504
6	O-Ring	35505-1423	35505-1423
7	Upper Tank Shell Kit*	24851-9000	24851-9000
8	Tank O-Ring	24850-0008	24850-0008
9A	Replacement Module	25023-0160S	25023-0172S
9B	Air Bleed Assembly**	24800-0120	24800-0120
10	Baffle Kit (with Screws)**	23910-0013S	23910-0013S
11	Baffle Screws**	37027-7028 (4)	37027-7028 (4)
12	Elbow and Bulkhead Assembly***	23910-0100S	23910-0100S
13	O-Ring	35505-7438	35505-7438
14	Deflector and Bulkhead Assembly	23910-0101S	23910-0101S
15	O-Ring	35505-1425 (2)	35505-1425 (2)
16	1-1/2" Plug with O-Ring	27001-002S	27001-002S
17	Adapter Fitting	24900-0509	24900-0509
18	O-Ring	35505-1424 (2)	35505-1424 (2)
19	Drain Plug	24900-0503	24900-0503
20	Bulkhead Retaining Nut	24752-0050 (2)	24752-0050 (2)
21	Lower Tank Shell	24850-0102S	24850-0102S
22	Clamp Bolt	24850-0010 (7)	24850-0010 (7)
23	Clamp Assembly	24850-0200 (7)	24850-0200 (7)
•	Warning Decal	32165-4004	32165-4005
•	Decal - Nameplate	32155-4147	32155-4148
•	Decal - Instruction Label	1000001338	1000001338
•	2" Slip 1/2 Union Kit	PKG 188	PKG 188

• Not illustrated

* Includes all decals and labels.

Quantity one unless otherwise indicated ().

** Included with Key No. 9A Replacement Module.

*** Includes O-Ring (Key No. 13).

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