Media Master
Sand Filter with 2 Position Valve
Model 1300 — Item No. 0-1700-013

Owner's Guide

*Shown with Power Pak I, not included.
“READ ALL INSTRUCTIONS” Failure to follow these important safety instructions and other basic safety precautions may result in serious personal injury.

IMPORTANT SAFETY INSTRUCTIONS

Before you begin installing your filter, refer to your pump owner’s guide for very important installation and electrical information related to your filter.

ELECTRICAL/BUILDING PERMIT
Local building codes may require obtaining an electrical or building permit and may have regulations on setbacks and barriers that must be followed.

ELECTRICAL
We recommend you have a qualified electrical contractor install the electrical power supply as specified in your pump instructions.

INSTALLED LOCATION
Position filter, pump and any other related components a minimum of 4 feet from pool to prevent their being used as a means to climb into the pool by young children. **DO NOT** store toys, chairs, tables, containers or other objects within 4 feet of the pool for the same reason.

**WARNING**
SEVERE ELECTRICAL SHOCK could result if you install your filter and pump on a deck or above pool water level. They could fall into the water, causing severe shock or electrocution. **DO NOT** install on a deck or other surface at, above or slightly below the top rail of the pool.

**PROPERLY SUPPORTED**
Filter, pump and any other related components should be properly supported to prevent damage from misalignment, settlement, vibration and mounted so as to minimize the potential for the accumulation of debris and moisture.

**ACCESSIBILITY**
The circulation system components should be installed to allow accessibility for inspection, repair or replacement.

**DO NOT** alter the pump electrical cord in any way or change the plug end to any style.

**DO NOT** use an extension cord(s). Severe electrical shock may occur.

PREVENT SEVERE SHOCK
To prevent the risk of severe electrical shock, plug your pump cord end into a grounding type receptacle protected by a ground fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

**DO NOT** allow children to operate or play around this product unless they are closely supervised by adults at all times.
Replace damaged cord immediately to reduce the risk of electrical shock.

**DO NOT BURY CORD**
An exposed cord may accidentally become damaged or severed by a sharp object or shovel resulting in severe electrical shock. Position cord to prevent accidental damage from lawn mowers, hedge trimmers or other equipment.

**BARE FEET/WET GROUND**
This is a dangerous combination around electrical equipment. Always be sure the ground under your feet and body is dry before you touch electrical equipment. Failure to heed this warning may cause severe personal injury or electrocution due to severe electrical shock.

**WARNING**
Avoid direct water spraying with a garden hose around electrical outlets, pump or any other electrical devices. Severe electrical shock or electrocution may occur.

**SERVICING YOUR PUMP**
Always unplug your pump from the receptacle before servicing, adjusting or repairing.
BEFORE YOU BEGIN
The pool must be properly erected per your pool assembly and installation instructions before installing the filter. Install the surface skimmer and return fitting.

Before completing the filling of the pool to the water level indicator marks on the skimmer face plate, the filter and pump should be installed with all connections secured tightly.

TOOLS REQUIRED
- Flat head screwdriver
- Flat shovel
- Measuring tape
- Carpenter level

MATERIALS REQUIRED
- Nine 12” x 12” patio blocks
- Waste hose - 1-1/2” inside diameter
- Medium sized rubber band (3” long)
- Ordinary plastic bag
- 100 lbs. #20 grade filter sand
- 1-1/2” hose clamp
- Silicone lubricant (available at pool dealer)

INSTALLATION
INSTALLATION LOCATION
Install your filter and pump and any other related components at least 4 feet from the pool to prevent their being used as a means of access to the pool by young children. Patio blocks provide firm support and keeps standing water and weeds away from electrical parts. DO NOT install your filter and pump directly on the ground surface. Settling and stressing circulation lines may occur during wet seasons. Position patio blocks as illustrated, use a shovel and carpenter’s level to level ground before placing the blocks.

Suction and return lines should be partially buried to prevent accidental tripping that could cause personal injury or damage to the filter system. Be sure the hoses are routed so that water flow through them is not restricted. Starting at least 12” from the pool wall, make two 3-4” deep trenches, one from the pool skimmer to the front of the pump and the other from the pool return fitting to the filter valve return port (located at the bottom of valve).

The two 8 ft. long hoses (Items 29) are interchangeable and used for the suction and return lines. Slip a hose clamp over the ends of each hose prior to installing. Connect one long hose (suction line) between the pool skimmer and front port of the pump. Connect the other long hose (return line) between the pool return fitting and valve return port (located on the lower end of valve). Connect the short hose (Item 28) between the pump discharge port (located at top of pump) and the filter valve pump port (located on the center left side of the valve). Tighten clamps firmly using a flathead screwdriver or 5/16” nutdriver. Cover the trenches with a firm board when finished.

NOTE: Do not completely bury the hoses with dirt.

ELECTRICAL OUTLET
Refer to your pump owners guide for detailed information pertaining to the requirements and regulations for safe electrical installation of the power supply, receptacle outlet, switching and ground fault interrupter.
INSTALL SAND
Gently pour 100 lbs. of filter sand into tank and level surface with palm of hand. Remove any sand from plastic bag and tank flange sealing surface. Remove rubber band and plastic bag.

REINSTALL COVER
Position large O-Ring on tank flange sealing surface and place cover on top, aligning O-Ring into cover groove. Install V-Clamp, sandwiching cover and tank flanges. Tighten knob until ends of clamp are approximately 3/8” apart.

REPLACE COVER CLAMP
Unscrew V-Clamp knob counter-clockwise to loosen and remove clamp.

REPLACE COVER
Lift cover off tank. Remove large O-Ring.

COVER DISTRIBUTOR
Slip a plastic bag over the distributor and secure with rubber band.

INSTALL SAND
Gently pour 100 lbs. of filter sand into tank and level surface with palm of hand. Remove any sand from plastic bag and tank flange sealing surface. Remove rubber band and plastic bag.

FILTER POSITION
BACKWASH POSITION
FROM PUMP
TO WASTE
TO POOL

FILTER OPERATION
A newly filled pool is normally filled with unfiltered water and usually requires continuous filtering for 24 to 48 hours along with chemical treatment of the pool water. Because all pool installations vary in environmental conditions (wind, rain, airborne debris, heat and pool use, etc.), it is impossible to provide an accurate filtering time for normal usage. Use a trial and error method to determine how long your filter must operate each day. Generally, 6 to 8 hours of filtering each day is sufficient to maintain pool clarity if the pool chemical treatment is correct.

As the water clears, less backwashing will be required. Consult your local pool store for helpful advice in keeping your pool clean and sanitary.

When possible, avoid operating your filter during peak electricity demands in your community. Check with your local electric utility company for the best times they recommend for operating your filter pump.

WHEN TO BACKWASH
As your filter removes debris from the pool water during the filtering process, the return flow will gradually reduce. Backwash when the pressure gauge increases 5 to 7 pounds above the clean filter starting pressure.
VACUUMING YOUR POOL
When vacuuming your pool, debris is caught in the filter at a very rapid rate. Consequently, the filter must work harder, causing a rapid increase in filter pressure as will be indicated on the pressure gauge. Frequent backwashing could be necessary during this process depending on the amount of dirt being vacuumed off the pool floor. Keep a check on the pool water level and refill as required.

MAINTENANCE
Preventative maintenance will provide continued smooth performance and extend the life of your filter for many years. Neglect will cause parts to wear or bind, leaks to occur and result in costly repairs. Keep moving parts lubricated and a clean environment around your filter and related components.

LUBRICATION
There are various types of lubricants available. However, most are intended for moving metal parts. Unfortunately, these lubricants will harm or degrade the plastics. DO NOT use petroleum base lubricants. Many people consider “PETROLEUM JELLY” safe for babies and can be applied to anything. But, it will DESTROY most plastics. Silicone lubricants, available at your pool dealer, are safe for use on plastics.

LUBE VALVE SHAFT AND O-RING
Periodically lubricate the valve shaft and internal o-rings in your filter valve to maintain smooth operations.
1. Stuff a rag in the return fitting and into the bottom inside outlet of your skimmer to reduce water backflow exiting the valve body when the piston assembly is removed.
2. Unscrew valve cover and pull piston assembly up and out of valve body.
3. Lightly lubricate the piston o-rings and valve shaft with silicone lubricant.
4. Reinstall piston assembly and remove rags from skimmer and return fitting.
5. Actuate piston assembly up and down to distribute the lubricant, then resume normal operations.

REPAIRS
Servicing should be performed by a qualified dealer. If disassembly is attempted, mark each of the parts assembled position as it relates to its mating parts. This assures proper alignment when reassembled. Malfunction will occur if not properly assembled. See your dealer for original replacement parts.

CAUTION
BEFORE removing filter or pump from pool for servicing, prevent the backflow of water from your skimmer and return inlet from flowing out of disconnected hoses.
1. Remove skimmer cover and basket and plug inside bottom hole with rag.
2. Referring to the instructions for your return inlet, remove the inlet cover and eye ball. Insert the winterizing disc and reinstall the cover.
3. Disconnect hoses on filter or pump as necessary when removing for service or repairs.

DRAIN TANK
See Caution Above
1. Remove V-Clamp from filter and remove cover and o-ring.
2. Remove tank drain cap to drain.
3. Place plastic bag over distributor in tank and secure with a rubber band. Scoop out sand with a medium size can and place in plastic bag.
4. After servicing, reassemble and install in reverse. Make sure tank o-ring and sealing areas are free of any sand and that the o-ring is properly seated in the cover groove before replacing cover.

WINTERIZING FILTER
In areas subject to freezing damage, it is mandatory that the filter, pump and any related components be removed from the pool and stored indoors. (Refer to individual components owner's guide such as pump, skimmer, chlorinator, etc., for specific winterizing instructions.)
1. Backwash the filter.
2. Siphon pool water level down below skimmer opening by using your vacuum hose and allow water to flow to an area that can accept a couple of thousand gallons or more.
3. Remove V-Clamp from filter and remove cover and o-ring.
4. Remove tank drain cap and allow tank to drain fully.
5. Disconnect all hoses.
6. Place plastic bag over distributor in tank and secure with a rubber band. Scoop sand out with a medium size can and place in plastic bag. If sand is not badly contaminated, save for next season.
7. Store all components in a warm dry area indoors.

DAMAGE CAUSED BY FREEZING TEMPERATURES IS NOT COVERED BY PRODUCT WARRANTY.
EXPLODED VIEW
MEDIA MASTER 1300

TO FRONT PUMP PORT

TO SKIMMER

TO TOP PUMP PORT

TO POOL RETURN

OWNER’S GUIDE
WARRANTY CARD
## PARTS LIST
### MEDIA MASTER MODEL 1300

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>QTY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>1121-1489</td>
<td>1</td>
<td>Tank</td>
</tr>
<tr>
<td>2</td>
<td>340-1926</td>
<td>1</td>
<td>Tank Cover</td>
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<tr>
<td>3</td>
<td>1121-1490</td>
<td>1</td>
<td>Valve Body With Decal</td>
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<td>4</td>
<td>1107-1467</td>
<td>1</td>
<td>Valve Cap</td>
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<td>5</td>
<td>308-1081</td>
<td>1</td>
<td>Valve Cap Gasket</td>
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<td>6</td>
<td>340-1280</td>
<td>1</td>
<td>Valve Spool</td>
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<td>7</td>
<td>340-1964</td>
<td>1</td>
<td>T-Handle</td>
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<td>8</td>
<td>308-1006</td>
<td>2</td>
<td>Piston Rod O-Ring</td>
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<td>9</td>
<td>340-1218</td>
<td>1</td>
<td>1/4&quot; Pipe Plug</td>
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<td>10</td>
<td>324-1018</td>
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<td>1/4&quot; x 1&quot; Carriage Bolt</td>
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<td>1107-1130</td>
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<td>Lateral</td>
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<td>1107-1464</td>
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<td>Distributor Tube Assembly</td>
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<td>340-1285</td>
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<td>Valve Adaptor</td>
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<td>14</td>
<td>341-1280</td>
<td>1</td>
<td>Air Relief Tube</td>
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<tr>
<td>15</td>
<td>343-1100</td>
<td>1</td>
<td>Air Relief</td>
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<tr>
<td>16</td>
<td>387-1030</td>
<td>1</td>
<td>V-Clamp</td>
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<tr>
<td>17</td>
<td>340-1957</td>
<td>1</td>
<td>Drain Fitting</td>
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<td>18</td>
<td>308-1206</td>
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<td>O-Ring</td>
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<td>Drain Fitting Nut</td>
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<td>307-1001</td>
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<td>Drain Cap Gasket</td>
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<td>22</td>
<td>340-1962</td>
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<td>Drain Cap</td>
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<td>23</td>
<td>308-1251</td>
<td>1</td>
<td>Tank O-Ring</td>
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<tr>
<td>24</td>
<td>330-1027</td>
<td>1</td>
<td>#8 x 1/2&quot; Screw</td>
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<td>25</td>
<td>395-1014</td>
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<td>2&quot; Pressure Gauge</td>
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<td>26</td>
<td>340-1201</td>
<td>1</td>
<td>Sand Filter Drain</td>
</tr>
<tr>
<td>27</td>
<td>387-1003</td>
<td>6</td>
<td>Hose Clamp</td>
</tr>
<tr>
<td>28</td>
<td>346-1013</td>
<td>1</td>
<td>1-1/2&quot; x 2-1/2&quot; Hose</td>
</tr>
<tr>
<td>29</td>
<td>346-1035</td>
<td>2</td>
<td>1-1/2&quot; x 8&quot; Hose</td>
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<tr>
<td>30</td>
<td>340-2160</td>
<td>1</td>
<td>Washer - 1.85 O.D. x 1.42 I.D.</td>
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<tr>
<td>31</td>
<td>1300-1014</td>
<td>1</td>
<td>Strainer Pot Assembly</td>
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<tr>
<td>32</td>
<td>1300-1002</td>
<td>1</td>
<td>Basket</td>
</tr>
<tr>
<td>33</td>
<td>308-1004</td>
<td>1</td>
<td>O-Ring</td>
</tr>
<tr>
<td>34</td>
<td>340-1779</td>
<td>1</td>
<td>Strainer Body</td>
</tr>
<tr>
<td>35</td>
<td>1121-1436</td>
<td>1</td>
<td>Strainer Lid w/Decal</td>
</tr>
<tr>
<td>36</td>
<td>365-1757</td>
<td>1</td>
<td>Owner's Guide</td>
</tr>
<tr>
<td>37</td>
<td>368-1066</td>
<td>1</td>
<td>Warranty Card</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING SAND FILTERS

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>REMEDIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - High gauge pressure, low return flow.</td>
<td>1 - Insufficient backwashing.</td>
<td>1&amp;2 - Backwash filter.</td>
</tr>
<tr>
<td></td>
<td>2 - Excessive contaminants or algae in sand.</td>
<td>3 - Use #20 filter sand.</td>
</tr>
<tr>
<td></td>
<td>3 - Filter sand is too fine.</td>
<td>4 - Replace sand after cleaning underdrain slots.</td>
</tr>
<tr>
<td></td>
<td>4 - Underdrain plugged.</td>
<td></td>
</tr>
<tr>
<td>2 - Low gauge pressure, low flow.</td>
<td>1 - Water level too low in pool.</td>
<td>1 - Fill pool so water is between marks on skimmer face plate.</td>
</tr>
<tr>
<td>Pump suction drawing in air. Pump sounds</td>
<td>2 - Restriction on suction side of pump.</td>
<td>2 - Clear obstruction in skimmer, hoses or pump.</td>
</tr>
<tr>
<td>like marbles rattling in it.</td>
<td>3 - Skimmer or strainer basket filled with debris.</td>
<td>3 - Clean skimmer and strainer baskets.</td>
</tr>
<tr>
<td>3 - High flow, low or normal gauge pressure</td>
<td>1 - Pool water is chemically out of balance.</td>
<td>1 - Check with test kit or contact dealer.</td>
</tr>
<tr>
<td>but pool water will not clear up.</td>
<td>2 - Sand too coarse.</td>
<td>2 - Use #20 filter sand.</td>
</tr>
<tr>
<td></td>
<td>3 - Sand grains rounded or worn.</td>
<td>3 - Use crushed #20 filter sand.</td>
</tr>
<tr>
<td>4 - Short filter cycles.</td>
<td>1 - Excessive contaminants or algae in sand or pool.</td>
<td>1 - Check chemical balance. Filter will require frequent backwashing.</td>
</tr>
<tr>
<td></td>
<td>2 - Improper backwashing.</td>
<td>2 - Backwash filter thoroughly. Waste hose too long or restricted.</td>
</tr>
<tr>
<td></td>
<td>3 - Sand too fine.</td>
<td>3 - Replace sand with #20 filter sand.</td>
</tr>
<tr>
<td>5 - Sand entering pool.</td>
<td>1 - Defective underdrain.</td>
<td>1 - Replace underdrain.</td>
</tr>
<tr>
<td></td>
<td>2 - Sand too fine.</td>
<td>2 - Use #20 filter sand.</td>
</tr>
<tr>
<td>6 - Water leaking to waste.</td>
<td>1 - Valve not seated in filter position.</td>
<td>1 - Actuate valve handle and make sure valve is seated.</td>
</tr>
<tr>
<td></td>
<td>2 - Defective o-ring in valve body.</td>
<td>2 - Replace o-ring or contact dealer.</td>
</tr>
</tbody>
</table>

Note: Contact your pool dealer for any problems you cannot solve.

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**WARNING**

No Diving!

Shallow water.

You can be permanently injured.

Prevent Drowning

Watch children at all times.

Rescue:

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Change of Design: Doughboy Recreational expressly reserves the right to change or modify the design and construction of any product in due course of our manufacturing procedures, without incurring any obligation or liability to furnish or install such changes or modifications on products previously or subsequently sold.

"the original portable pool"

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