

ARNESON
Pool Sweep®

Automatic Pool Cleaners
Numbers I & II

- **INSTALLATION**
- **OPERATION**
- **MAINTENANCE**
- **PARTS LIST**

Dear Pool-Sweep Owner:

We know that you will enjoy your new Pool Sweep... the automatic pool cleaner that will take the drudgery out of keeping your pool clean.

This manual has been developed with pictures as a guide for those who might want to install their Pool-Sweep. However, we recommend that the installation be made by a Pool-Sweep dealer trained by us in the installation procedures. **FURTHERMORE, ALL ELECTRICAL WORK—INCLUDING CONNECTION OF BOOSTER PUMP—SHOULD BE DONE BY A LICENSED ELECTRICIAN AND MUST COMPLY WITH APPLICABLE ELECTRICAL CODE REQUIREMENTS.**

The Pool-Sweep is constructed of the finest materials available, however we recommend that when the Pool-Sweep is removed from the pool, it should be **LAI**D ON IT'S SIDE IN A SHADED AREA TO PROTECT THE UNIT FROM POTENTIALLY HARMFUL SOLAR ULTRAVIOLET RAYS.



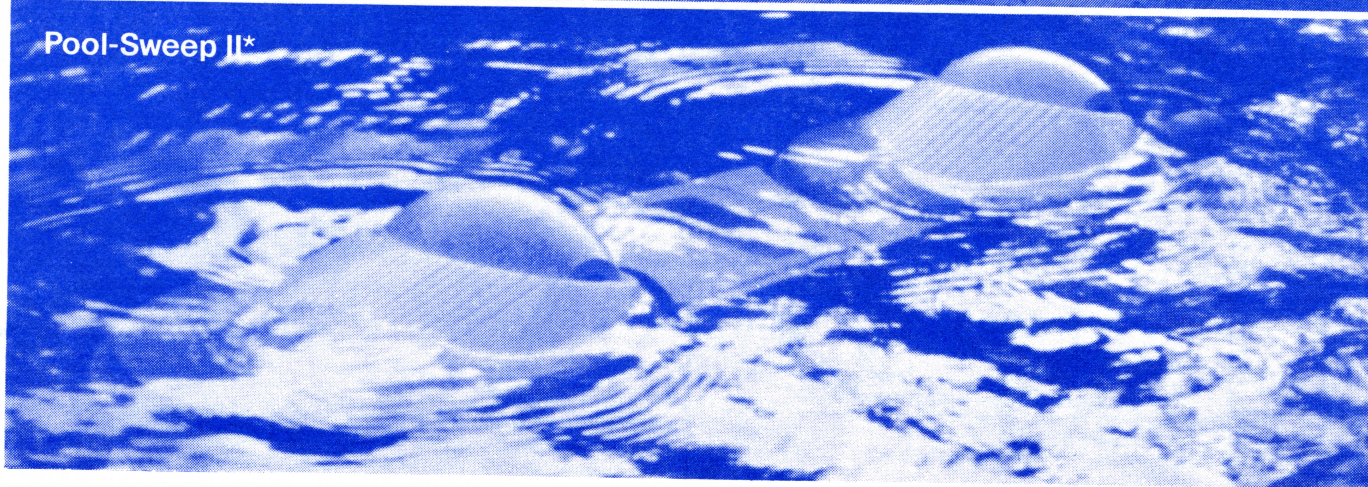
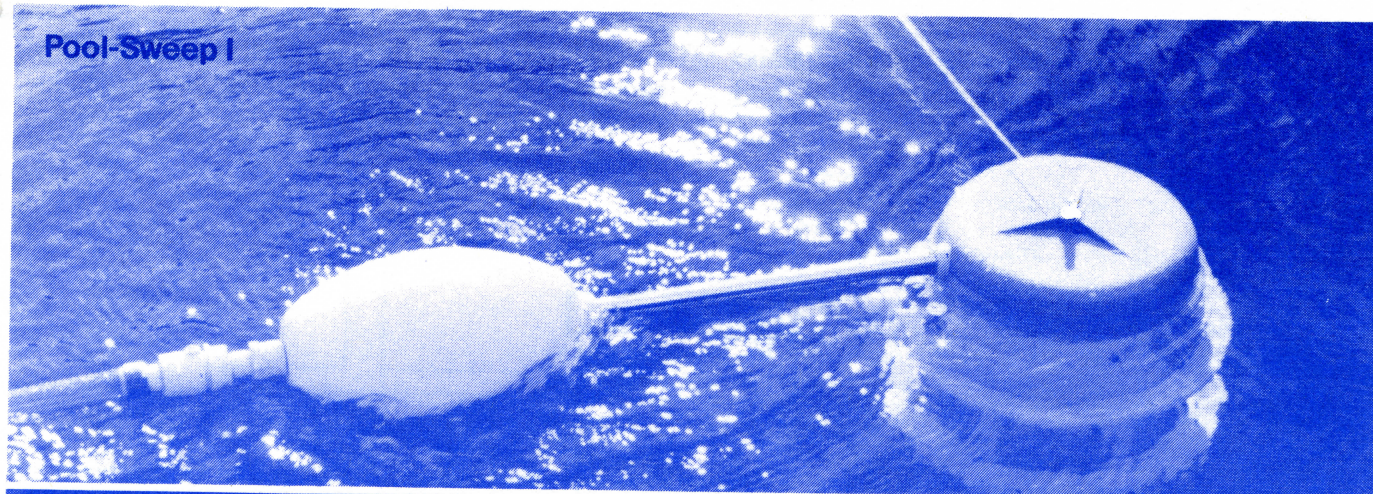
Your Arneson Pool-Sweep is protected by a limited warranty program. **TO TAKE FULL ADVANTAGE OF THIS LIMITED WARRANTY PLEASE READ AND RETURN THE LIMITED WARRANTY REGISTRATION CARD AT ONCE.** Your card is packed in the Pool-Sweep head box. It is pre-stamped with your Pool-Sweep serial number located on the bottom of the Pool-Sweep head.

IMPORTANT NOTICE

QUALITY PERFORMANCE REQUIRES QUALITY PARTS... To insure the high quality of standards and performance that Arneson Products has provided, insist only on **GENUINE ARNESON POOL-SWEEP REPLACEMENT PARTS.**

BEFORE YOU BEGIN

READ CAREFULLY



We suggest that you read this entire booklet before you begin to install your Pool-Sweep. Visually lay out the parts on the ground. Study the Parts List on pages 6 and 7 of the booklet.

1 Pool-Sweep comes in four separate boxes. One box contains your Pool-Sweep head assembly. Another box contains three sections of feeder hose, sweep hoses, leaf basket, float arm assembly, and mender nuts. The third box contains your booster pump assembly which will be used by the licensed electrician. The fourth box contains your wall fitting or deck stand (whichever is required).

2 Before starting installation, open leaf basket box and remove all hoses. Stretch them out as straight as possible, preferably in the sun. This will allow the vinyl hoses to relax and straighten out. The longer you leave the hoses in this position the better. **HOSES SHOULD NEVER BE LEFT COILED.**

3 Pool-Sweep is designed for installation in pools that have been pre-plumbed for Pool-Sweep as well as those that have not.

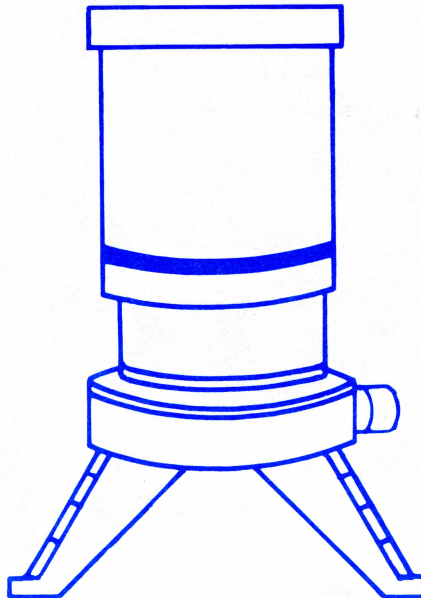
4 All Pool-Sweep threaded parts are either plastic or thread into plastic parts. The use of TEFLON TAPE on threads is recommended. In addition, leave at least two starting threads on the end of fittings untaped. **VERY IMPORTANT . . . TURN** fittings approximately $\frac{1}{2}$ to 1 full turn to the left to engage starting threads. Be sure both parts are started properly, then resume tightening. **DO NOT OVER TIGHTEN.**

*Patent Pending.

BOOSTER PUMP

This is a specially designed booster pump. Substitute pumps generally do not perform to Pool-Sweep required standards.

For both electrical and plumbing installation procedures for Pool-Sweep pump, refer to separate instructions packed in pump box.



CALL A LICENSED ELECTRICIAN to make the electrical connection of the booster pump. Your local Pool-Sweep dealer will be able to recommend a licensed electrician if you do not know one. **ELECTRICAL** supplies are not included because of the great variety of individual electrical codes. **CHECK LOCAL ELECTRICAL CODES FOR PARTICULAR REQUIREMENTS IN YOUR AREA.**

WARNING: GROUND WIRE ... The frames of all electrical components, particularly motors, must be effectively grounded for safety in case of electrical faults. Connect to the grounding conductor of power supply as specified in **ARTICLE 680 of NATIONAL ELECTRICAL CODE** and as required by local codes.

TIME CLOCKS† The installation of a separate time clock for the Pool-Sweep is highly recommended. The time clocks for the filter pump and the Pool-Sweep must be synchronized at all times and must be checked periodically. If the clock is shut off or interrupted for any reason, the time must be re-set.

The Pool-Sweep must never be allowed to run when the filter

system is not in operation. To insure this, the trippers on the time clocks are to be placed to *commence operating at least one-half hour after the filter pump starts and to stop one-half hour before the filter pump stops. Running the Pool-Sweep without the filter system will void the warranty on the Pool-Sweep.*

MANUAL SWITCH ... a manual switch located between time clock and Pool-Sweep pump is recommended. This switch eliminates the necessity of turning pump off at time clock. One may be obtained from your electrical or hardware store.

PUMP SEAL ... Pool-Sweep booster pump is fitted with a mechanical shaft seal which is water lubricated and water cooled. This seal can be quickly damaged if pump is run without water. **THEREFORE, NEVER OPERATE UNLESS FILTER SYSTEM IS ON.**

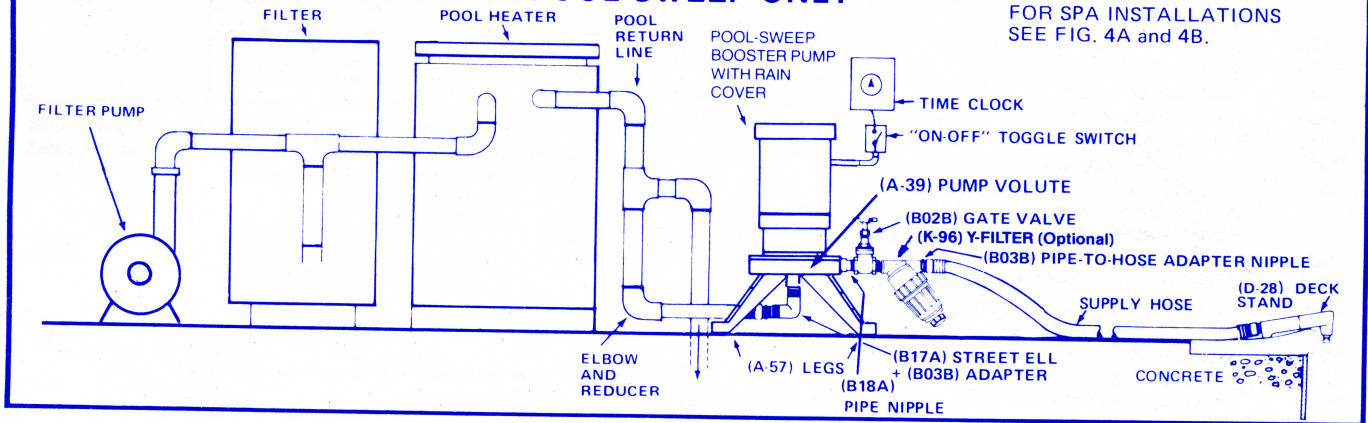
IMPORTANT: Pool-Sweep must run for a length of time necessary to clean your pool but should never be allowed to run while filter system is off as this may result in damage to Pool-Sweep pump. A longer than normal cleaning cycle is recommended for first 30 days.

†Optional, Not included with Pool-Sweep.

SCHEMATIC DIAGRAMS OF TYPICAL BOOSTER PUMP INSTALLATIONS

1. TYPICAL INSTALLATION — POOL SWEEP ONLY

FOR SPA INSTALLATIONS
SEE FIG. 4A and 4B.

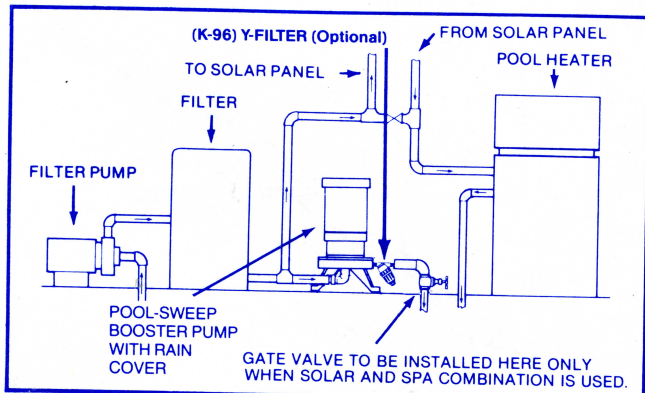


2. TYPICAL INSTALLATION POOL-SWEEP ONLY

Pool Heater Considerations ... If a pool heater is used, suction side of Pool-Sweep booster pump must be connected into the return line **AFTER** heater. **NEVER CONNECT SUCTION SIDE OF BOOSTER PUMP AHEAD OF FILTER OR HEATER EXCEPT ON SOLAR INSTALLATIONS.**

3. INSTALLATION WITH SOLAR HEATER

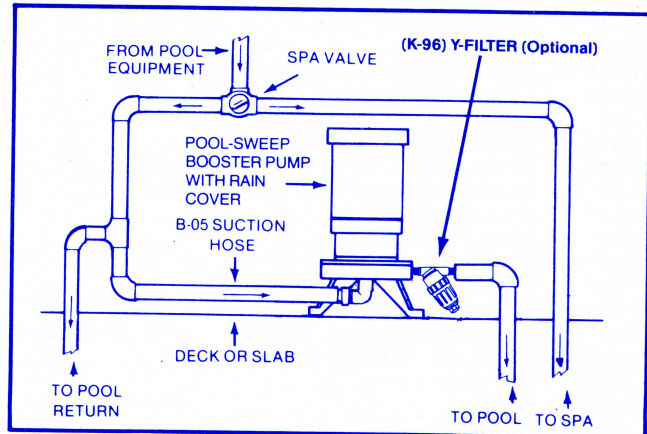
When installing a Pool-Sweep on a pool with solar heating (with or without a gas heater for back-up), the saddle clamp or inline tee must be installed on the return line between the filter and the solar heater. This assures an ample supply of water, and minimizes the possibilities of an air lock in Pool-Sweep pump each time the solar panel is filled.



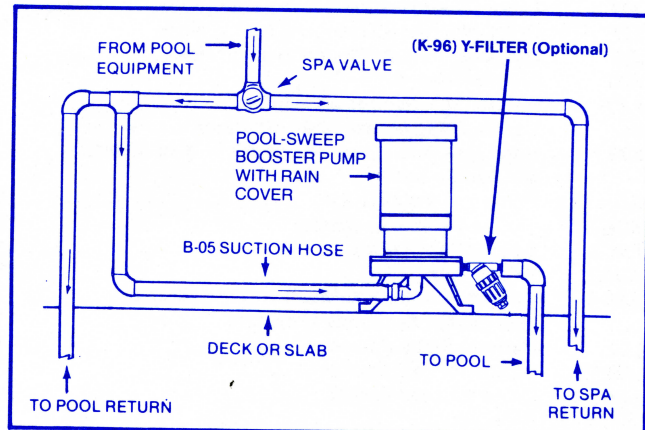
4. INSTALLATIONS WITH SPA POOLS

If your pool is plumbed for a spa pool, connect suction side of Pool-Sweep booster pump **AFTER** spa by-pass valve as in 4A alternate 4B.

4A.



4B.

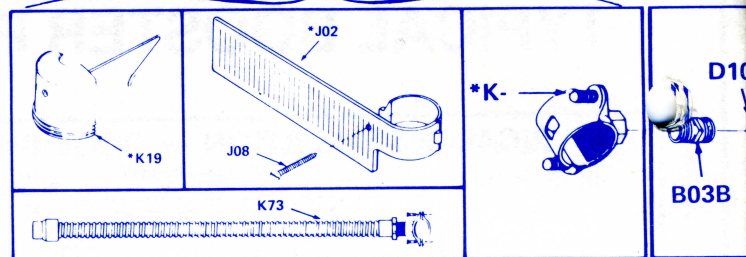


OPTIONAL

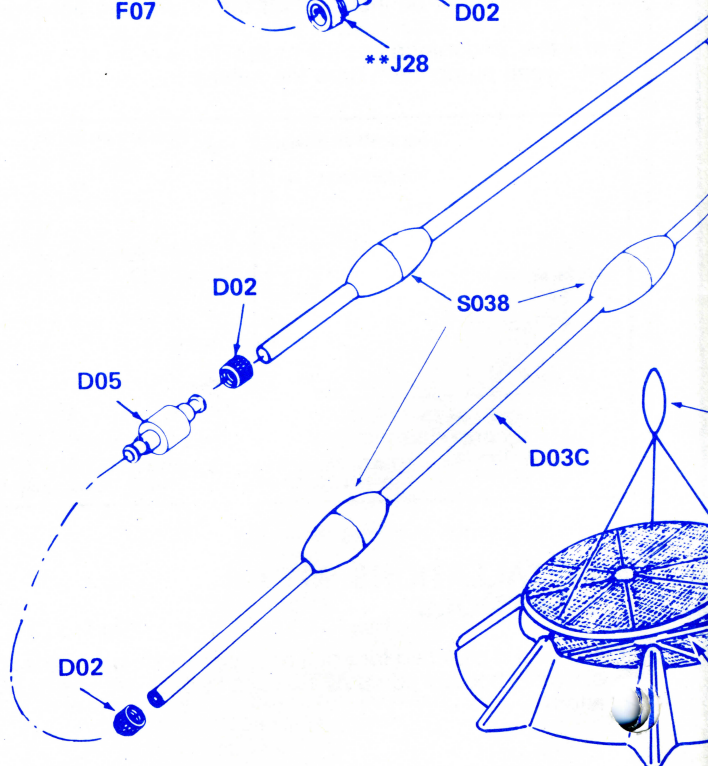
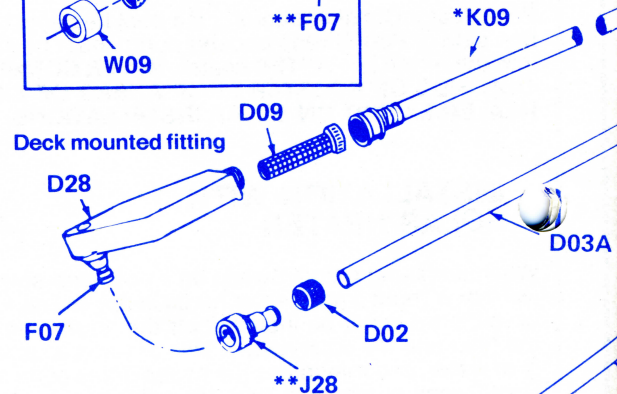
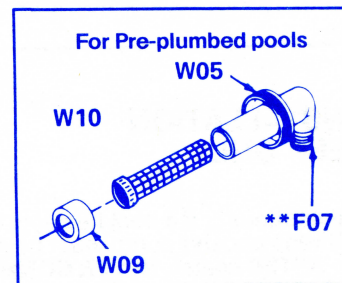
PART NO.	DESCRIPTION	QTY.
A57	Pump Legs	3
A60	Pump-Motor Assembly, Vertical	1
†B02	Gate Valve, 3/4", Brass	1
* †B03B	Hose Adapter, 3/4" x 3/4" male	2
* B05	Suction Hose, 3/4" x 2 ft.	1
* B17A	Street Ell	1
B18A	3/4" Pipe Nipple	1
D02	Mender Nut, 7/8"	6
D03A	Feeder Hose, 6 ft length	1
D03C	Feeder Hose, 16 ft. length	2
D05	Swivel Connector	2
D09	Screen	1
* †D10	Washer for 3/4" hose	3
D15	Float Retainer	1
D27	Weight for Feeder Hose	1
D28	Deck Stand, complete (for existing pool)	1
D30	Weight Retainer	1
D41	Quick-Disconnect Swivel	1
F01	Float, Large	1
F07	"O" ring, #014. 7/8" x 1/8"	4
F12	Grommet, Float Arm	1
F21	Float Arm Connector	1
F22	Float Arm (less float)	1
G02	Bottom Shell: available only when old bottom shell is returned	1
G04	Flat Washer, 7/8" Nickel-plated	1
G06	3/8" Housing Nut, Nickel	1
G09A	Housing Tire	2
G15 A	Thumb Screw for Sweep Hose Adju	2
G16 A	Compression Spring	2
G44	Jam Nut, 3/8"-16 Plated	1
G63	Bottom Shell Extension	1
G63A	Bottom Shell Extension—New Style— (use w/new style G02 bottom shell only)	1
H01	Hose Weight	2
H02	Hose Mender, 7/8"	1
H03	Mender Nut, 7/8"	4
H05F	Floor Sweep Hose, 13 ft length	1
HO5W	Wall Sweep Hose, 10 ft length	1
H06	Floor Hose Extension, 3 ft length	1
H07	Hose Sleeve without Insert, Floor Hose	21
	Wall Hose	16
H08N	Hose Jet	2
H09C	Hose Jet Sleeve	2
H10	Stop Ring for Hose Weight	2
H12	Hose Sleeve with Metal Insert, Floor Hose	13
	Wall Hose	8
* J02	Ladder Guard (including screw, J8), as required	1
J27	Quick-disconnect Coupling for 7/8" Hose	2
J28	Quick-disconnect Coupling for 3/4" Hose	1
* K09	Supply Hose, 3/4"	1
* K19	Return Line Diverter, as required	1
* K-	Saddle Tee (give size when ordering)	1
* K73	Hand Rail Guard, specify length (3, 4, or 5 feet) and Saddle Size	1
K81	Pump Installation Kit	1
K96	In-Line Y-Filter, Assembly	1
K962	Y-Filter Cap O'Ring	1
K963	Y-Filter Cap	1
K964	Y-Filter Screen, 200 Mesh	1
L01	Leaf Basket Assembly, complete	1
L02	Harness for Leaf Basket	1
L09	Screen for Leaf Basket	1
L25	Cover for Leaf Basket	1
S038	Float, Small	6
W05	Wall Fitting only, 1 1/2" (for new pool)	1
W09	Screen Retainer	1
W10	Wall Fitting, 1 1/2", complete	1

Hoses For Vinyl and Fiberglass Pools

- ***H04F Floor Sweep 13'
- H04W Wall Sweep Hose 10'
- H18 Bushing For H04F and H04W



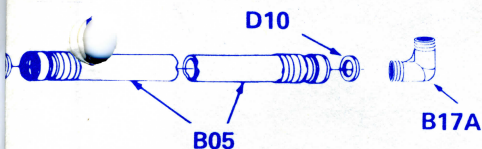
*Ladder guard, saddle tee, supply hose, hand rail guard and diverters are not included with Pool-Sweep, but are optional and must be ordered separately, when needed.



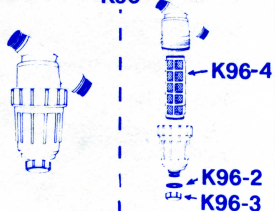
OPTIONAL

Pump Installation Kit

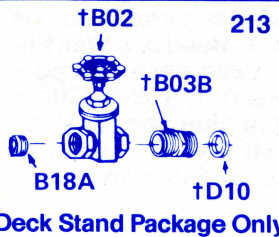
K81



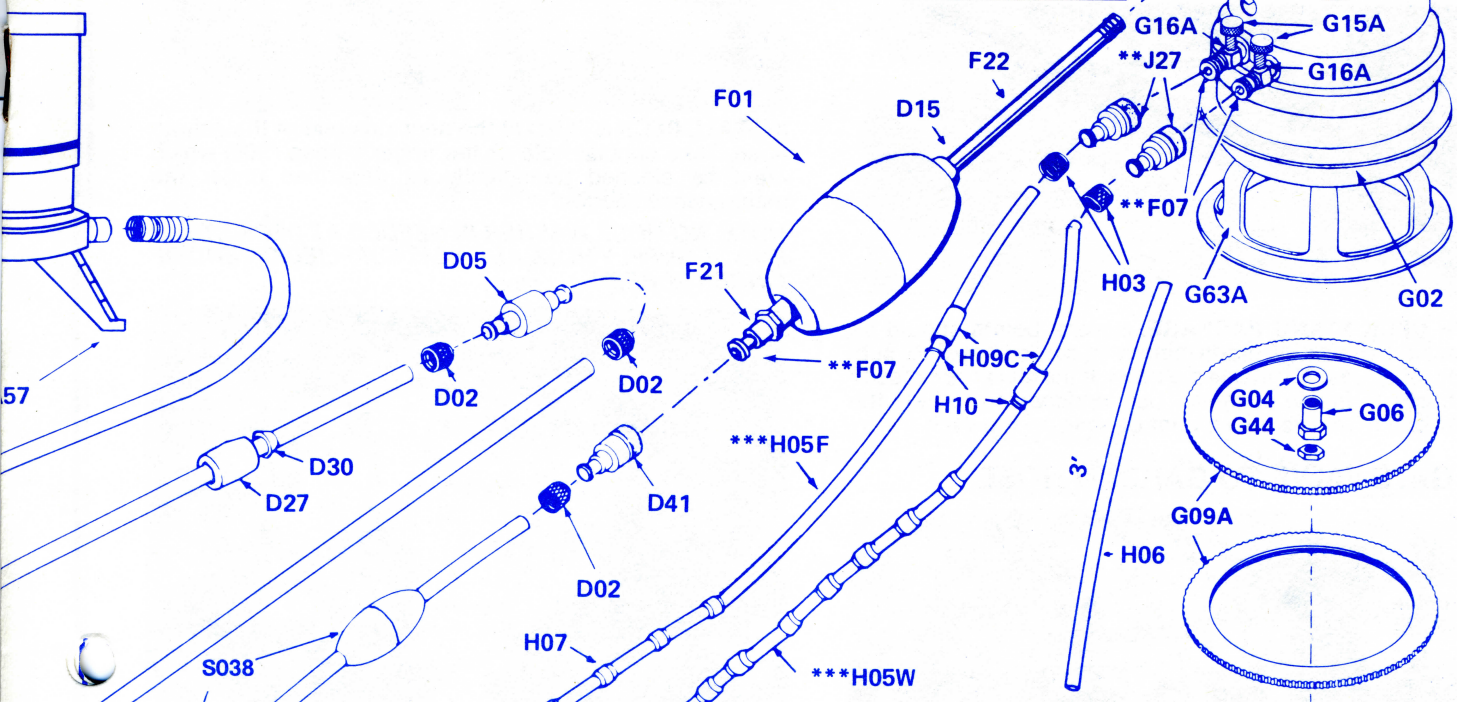
K96



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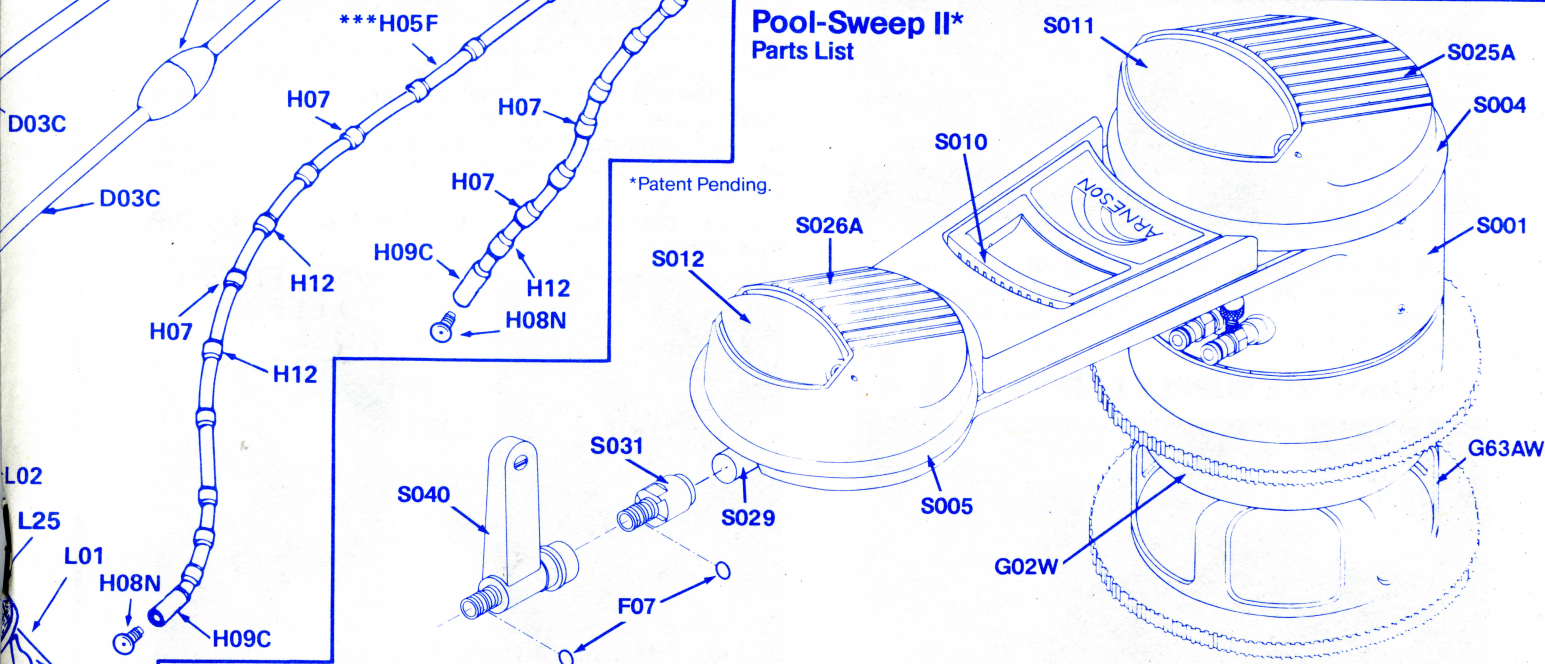


Pool-Sweep I



Pool-Sweep II* Parts List

*Patent Pending.



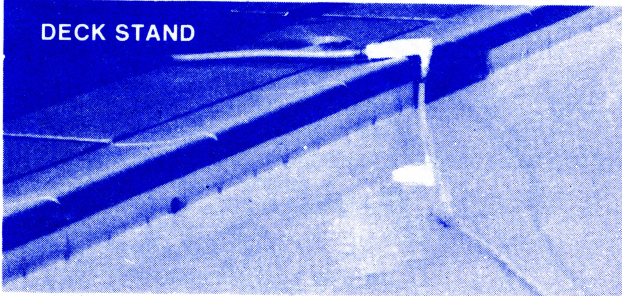
F07	"O" Ring	2	S011	Front Roller	1
G02W	Bottom Shell (White)	1	S012	Rear Roller	1
G63AW	Bottom shell Extension (White)	1	S025A	Front Turret	1
S001	Housing	1	S026A	Rear Turret	1
S004	Front Tile Wheel	1	S029	Feed Tube	1
S005	Rear Tile Wheel	1	S031	Connector, Feed Tube With F07 "O" Ring	1
S010	Handle	1	S040	Tile Rinser Assembly With F07 "O" Ring	1

All other parts interchangeable between units.

DECK STAND OR WALL FITTING

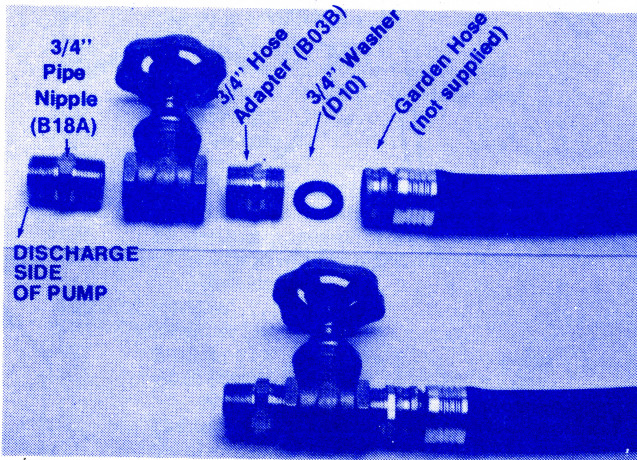
The water supply from the booster pump into the pool can go either through a Deck Stand or a Wall Fitting. The Deck Stand package is used when your pool is not pre-plumbed for Pool-Sweep. The Wall Fitting package is installed in pools pre-plumbed for Pool-Sweep. Either should be located near the center of the long pool side wall — never on either end.

5. DECK STAND



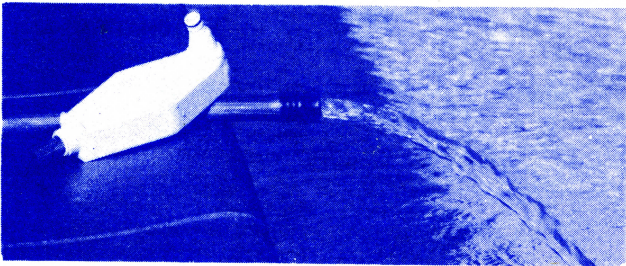
THE DECK STAND PACKAGE. Several points should be observed. Use a high grade reinforced garden hose (not supplied) of at least 3/4" inside diameter. If the distance exceeds 100' use 1" inside diameter. Use landscaping to hide the hose and minimize the amount of hose on the deck.

6. GATE VALVE TO GARDEN HOSE



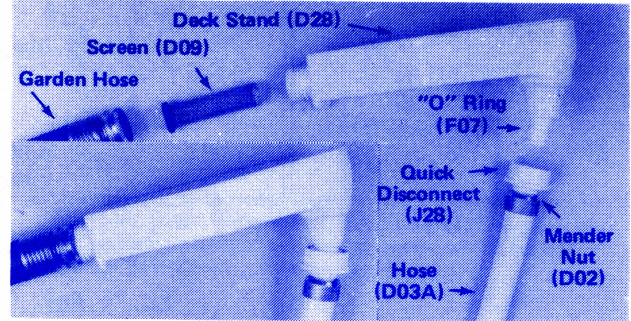
BEGIN BY ATTACHING THE GARDEN HOSE to the hose adapter (B03) at the gate valve which is connected to the discharge side of pump. Make sure to use hose washer (D-10) to prevent leaking.

7. FLUSH THE SUPPLY LINE



FLUSH THE SUPPLY LINE ... Turn on Pool-Sweep booster pump and flush out the supply line on pre-plumbed system (with wall mounting). With deck stand turn on Pool-Sweep booster pump making sure gate valve is open. Point garden hose toward pool and keep it in that position while flushing for several minutes.

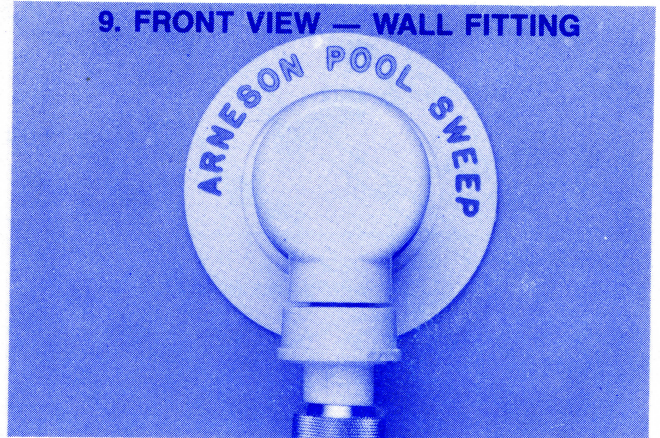
8. GARDEN HOSE TO DECK STAND



INSTALL DECK STAND at the pool side end of the garden hose. Take special note of the finger screen (D09) which must be cleaned periodically as described under the maintenance section.

NOTE: NO HOSE WASHER IS NEEDED AT DECK STAND END OF SUPPLY HOSE AS ONE IS SUPPLIED ON END OF FINGER SCREEN.

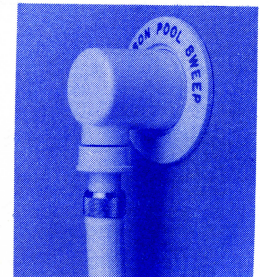
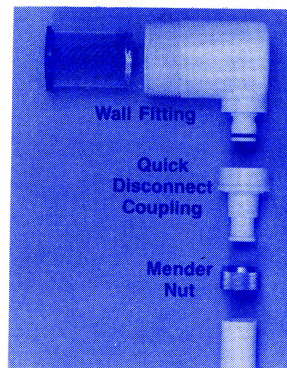
9. FRONT VIEW — WALL FITTING



WALL FITTING PACKAGE. If you are just building a pool, use an underground pipe of at least 1" inside diameter between the booster pump discharge and the outlet fitting in the pool wall. The wall fitting (W-10) has a 1 1/2" male thread to fit a standard vacuum or outlet fitting. Make sure that finger screen (D09) inside wall fitting is clean and free of debris.

PLEASE DISCUSS THE ABOVE POINTS WITH YOUR BUILDER

10. WALL FITTING TO FEEDER HOSE



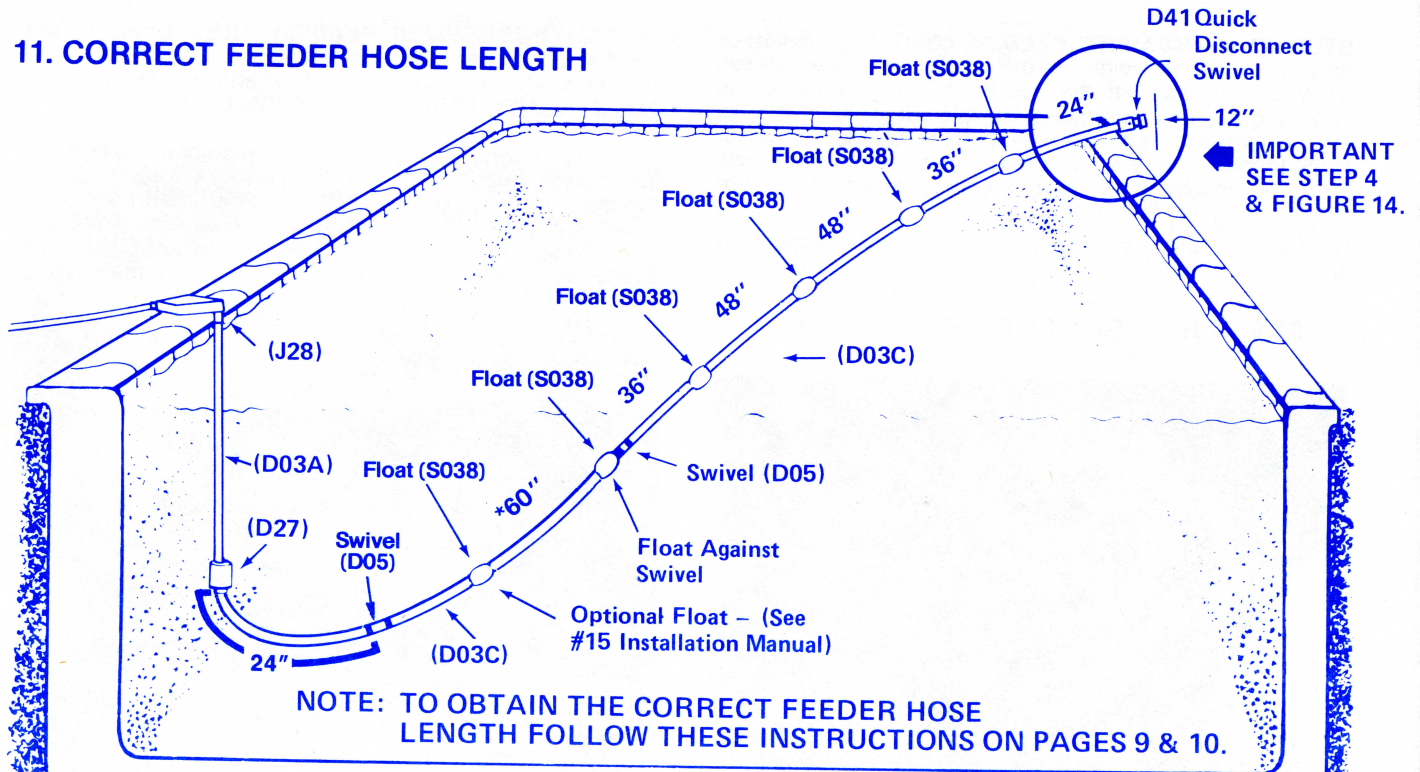
INSTALL THE WALL FITTING in the sequence illustrated. Be sure to flush the system **BEFORE** putting in wall fitting and attaching the feeder hose. (see flushing description No. 7)



QUICK-DISCONNECTS which make it easy to assemble and disassemble are used at all important hose junctions. These are easily snapped on and off.

FEEDER HOSE

11. CORRECT FEEDER HOSE LENGTH



*Exact distance may vary, adjust for best results.

Feeder hose carries water under pressure from deck stand or wall fitting to Pool-Sweep head. There are: One 6' section (D03A) of reinforced white vinyl hose with fittings, one 16' section (D03C, with one float only) and one 16' section (D03C) with four floats and fittings.

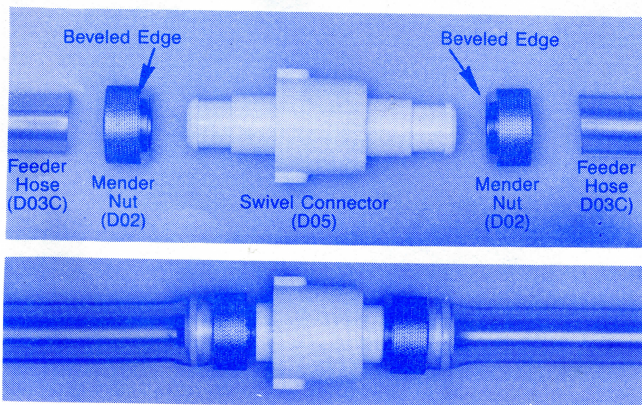
Note: Hoses to be assembled should follow figure 11.

FOLLOWING ARE THE 5 STEPS FOR INSTALLING THE FEEDER HOSE

STEP NO. 1—MEASURE THE DISTANCE between the Feeder Hose Weight (D27) and the Swivel Connector (D05) on the six foot section of reinforced white vinyl hose (D03A). The distance should be 24" (see Fig. 13).

Lower the weighted end of the D03A into the water until the Feeder Hose Weight (D27) is against the wall at the top of the cove (where the wall and bottom intersect), and the Swivel Connector (D05) is resting on the bottom (see Fig. 13). Mark the place on the D03A where it contacts the Wall Fitting (W10) or the Deck Stand (D28). The D03A hose must be cut at this point, and the J28 Quick Disconnect Fitting must be removed

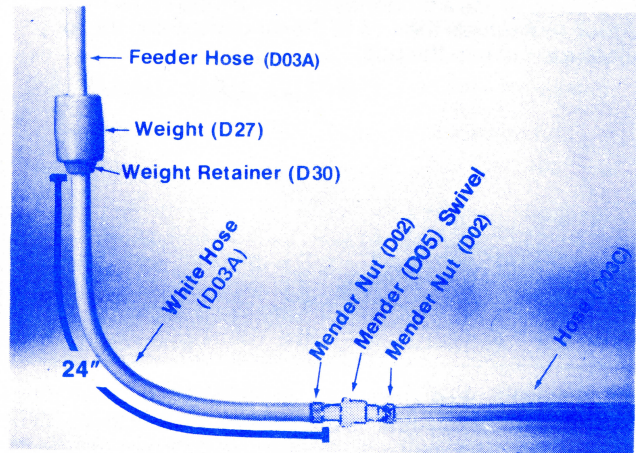
12. SWIVEL CONNECTION



from the excess portion and re-installed on the section with the Feeder Hose Weight (D27).

STEP NO. 2—CONNECT THE THREE SECTIONS OF HOSE TOGETHER as shown in Fig. 11. Bevel inside of hose end at both ends with a knife and wet end of hose before inserting swivel and mender. **MOVE FLOAT** on the feeder hose section containing one S038 Float (or the section with S038 Float plus optional S038 Float) forward against Swivel Connection after connecting hoses. Connect D03A reinforced hose by means of J28 Quick Disconnect to Wall Fitting or Deck Stand (see Fig. 10).

13. FEEDER HOSE WEIGHT AND MENDER



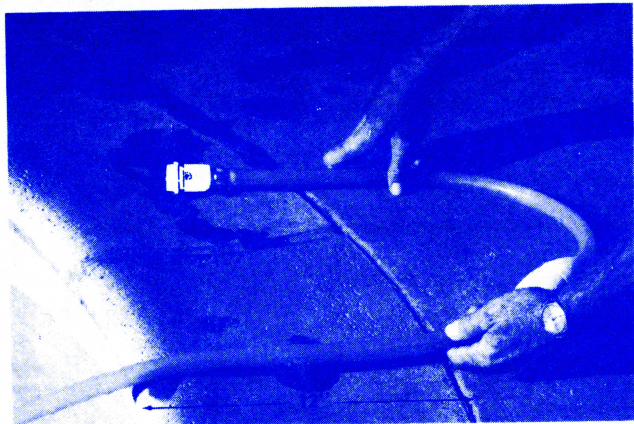
STEP NO. 3 — POSITION FEEDER HOSE. Turn filter pump on, fill hose with water. Once filled, walk free end of feeder hose to the furthest point your Pool-Sweep head will travel. (Furthest opposite diagonal corner.)

FEEDER HOSE

STEP NO. 4—MEASURE FEEDER HOSE. First, pull hose toward you so the weight on the 6' section of hose moves away from the wall with the feed hose floating in its normal operating position (see figure 11). Allow hose to drift back until weight returns to the wall and the Swivel Connector (D05) touches the floor. With the feeder hose in its normal operating position measure 12 inches past inside edge of pool. (See figures 11 & 14.)

Note: In many cases you will have considerable excess feed hose.

14. FEEDER HOSE LENGTH



STEP NO. 5 — CUT FEEDER HOSE. Measure excess length from 12" beyond furthest point. **REMOVE** feeder hose from pool. **DISCONNECT** mender connection at 6' hose section. **CUT** excess length from **MIDDLE SECTION** (16 foot with one float) at the end opposite the float. Float should be against D05 swivel. Additional floats are at 60" spacing from this point. **RECONNECT** mender and **RECHECK** entire feeder hose length.

REMEMBER, CUT EXCESS LENGTH FROM MIDDLE HOSE SECTION.

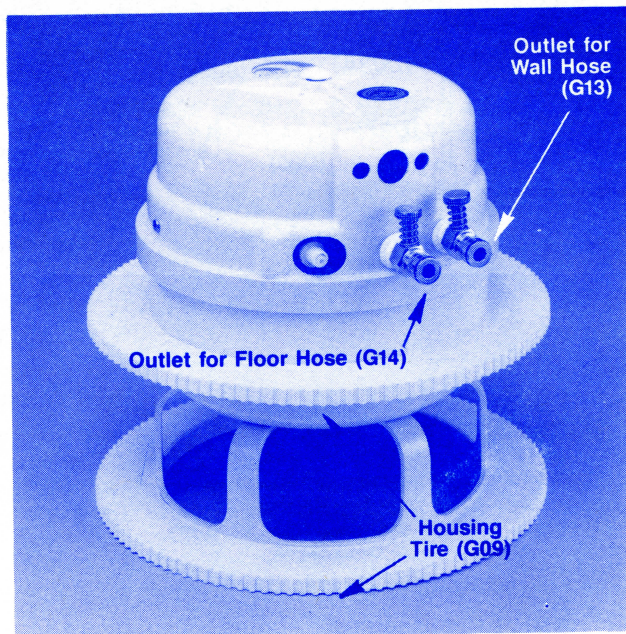
15. ADDITIONAL FLOAT:

A sixth float should be added to the feed hose **only** when the feed hose has a tendency to form a loop in the middle section as it travels the wall to the far corner, and the loop fails to roll-out into the pool.

INSTALL POOL-SWEEP HEAD BY THREADING FLOAT ARM (F-22 — See parts list on pages 6 & 7.) into Pool-Sweep head. Threads on end of float arms are self tapping. HAND TIGHTEN 7 TO 10 FULL TURNS.

It is very important to get a vertical alignment. **CONNECT** two sweep hoses to proper connectors on head. (See illustration no. 16.) **CONNECT QUICK-DISCONNECT** located on end of feeder hose to Pool-Sweep float arm. **IMMERSE** Pool-Sweep Head in water to displace any air. **TURN** filter pump on to fill with water. **TURN** Pool-Sweep pump on.

16. POOL-SWEEP HEAD



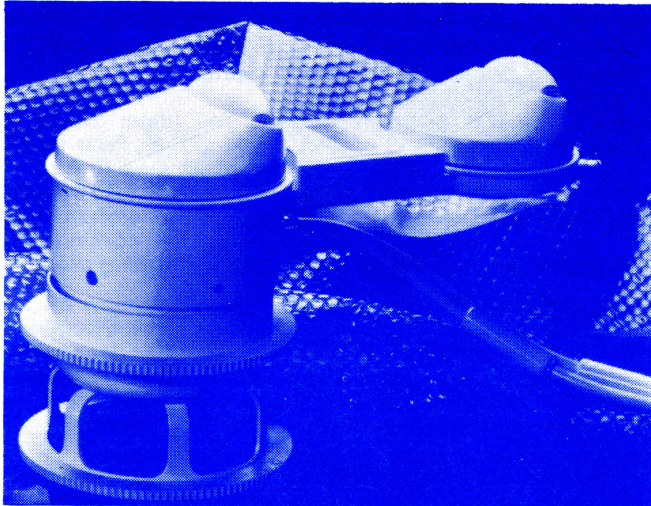
SWEEP HOSE ADJUSTMENTS should be determined after making necessary adjustments to feeder hose and Pool-Sweep is operating in pool. Both hoses should be sweeping in a steady and smooth manner. If sweeping excessively, **TURN** thumb screws located on back of head clockwise to restrict amount of water flowing through hoses. If hoses have little or no sweeping action, **TURN** thumb screws **COUNTERCLOCKWISE** to allow more water to flow.

17. SWEEP ACTION ADJUSTMENT

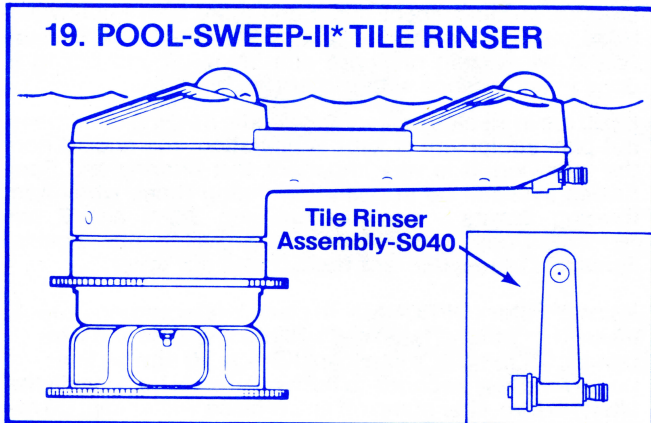


SWEEP HOSE AND OPTIONAL ACCESSORIES

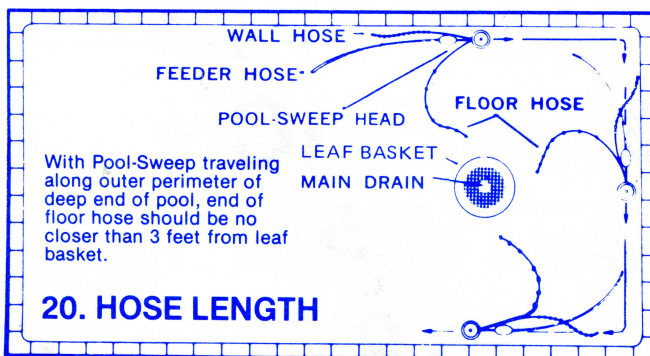
18. POOL-SWEEP-II*



19. POOL-SWEEP-II* TILE RINSER



A tile rinser attachment operates without the solar cover in place and conveniently disconnects when under the cover operation is desired.



20. HOSE LENGTH

ADJUST LENGTH OF FLOOR SWEEP HOSE

Observe Pool-Sweep in deep end of pool... Traveling forward, not backing up... noting the floor hose (longer of two sweep hoses) as it passes leaf basket. End of floor hose should never sweep closer than three feet from the edge of leaf basket. If floor hose is too short, add desired length of floor hose extension (H06) to end connecting to Pool-Sweep Floating Head Unit as illustrated.

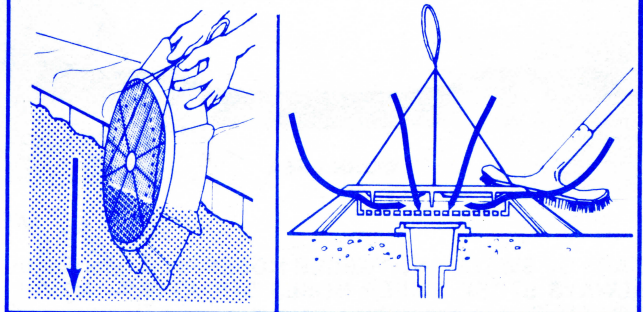
*Patent Pending.

NOTES: While in deep end of pool and NOT HUGGING wall, floor hose will reach area of main drain and leaf basket and pass over it. This is normal.

NEVER adjust the length of the wall hose (H05W)

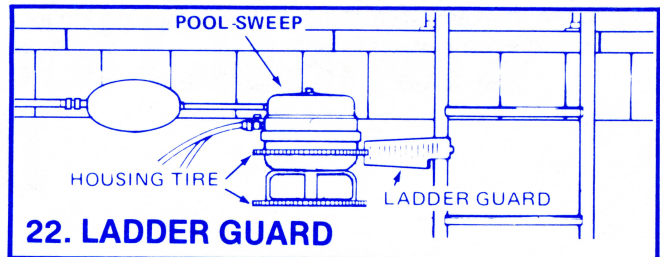
IF SWEEP HOSE WEIGHTS (H01) catch on edge of love seat or step, or elsewhere, simply slide weight (H01) and stop ring (H10) up higher on sweep hose.

21. LEAF BASKET



PLACE LEAF BASKET in the water by letting it slide down wall. Then POSITION over main drain. To REMOVE FOR CLEANING, USE POOL BRUSH and slowly pull towards you as if pulling on a rope. Maintain continuous pull till leaf basket has cleared water.

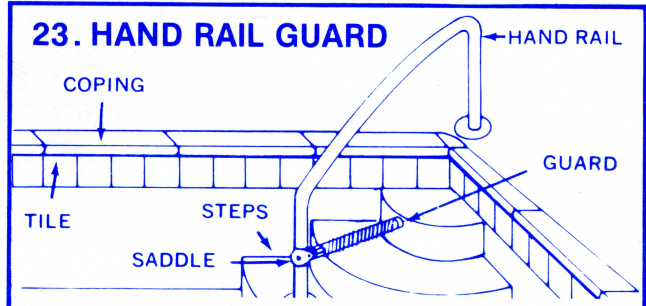
OPTIONAL ACCESSORIES



22. LADDER GUARD

OPTIONAL ACCESSORY-LADDER GUARD. A ladder guard (J02) may be purchased from your pool dealer, if required. If Pool-Sweep hesitates behind ladder, a ladder guard should be installed as shown. It should be positioned so that top tire on Pool-Sweep head rides horizontal center line of ladder guard.

23. HAND RAIL GUARD

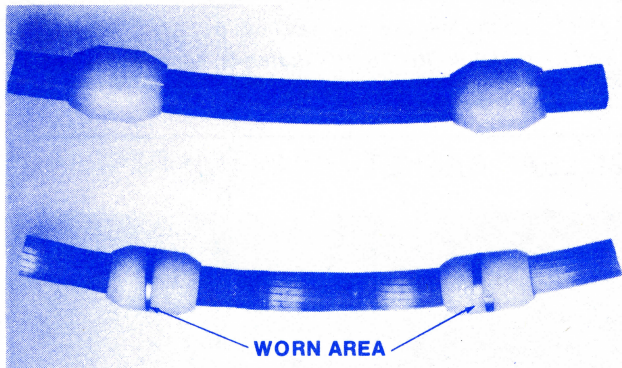


OPTIONAL ACCESSORIES — HAND RAIL GUARDS OR STEP WHEELS. A special Hand Rail guard may be purchased from your pool dealer, if required, with part number varying by length (K-73a-3', K-73b-4', K-73c-5'). Install so Pool-Sweep head lower shell extension (G63A) travels along guard.

Occasionally, large or extended step wheels may be required to enable Pool-Sweep to get around odd shaped steps, ladders, love seats, etc.

MAINTENANCE TIPS

24. WEAR RINGS



CARE OF SWEEP AND FEEDER HOSES. It is important to **ALWAYS STORE SWEEP HOSES STRAIGHT — NEVER COILED.** Sweep hoses have been designed for use in all types of pools — plaster, vinyl, painted and fiberglass. These hoses are fitted with white nylon sleeves, some of which contain a stainless steel wear ring. When operating in a plastered or concrete pool, it is normal and expected that nylon hose sleeves will gradually wear and expose **STAINLESS STEEL** rings. Once exposed, these rings will polish sides and bottom of pool. To **PROLONG LIFE** of your sweep hose rotate worn nylon sleeves one quarter **TURN** when excessive wear is noticed. **REPLACE** wear rings when they are worn to point where they no longer protect hoses.

MAINTENANCE

Here are a few maintenance, trouble shooting tips for the care of your Pool-Sweep. If trouble persists, consult your nearest Pool-Sweep dealer.

KEEP FINGER SCREEN CLEAN. The finger screen is located in deck stand or wall fitting (pg. 8). Prior to any backwashing for cleaning of filter, make sure to turn off Pool-Sweep and **DISCONNECT AT WALL FITTING OR DECK STAND.** The screen is intended to protect Pool-Sweep from a poorly operating filter. A continuously plugged screen indicates filter is not performing properly.

BACKWASHING: Prior to any backwashing, turn off the filter pump and the Pool-Sweep pump and then disconnect the Pool-Sweep at the poolside wall fitting or deck stand. After backwashing (**and adding diatomaceous earth if necessary**) flush the system out for five minutes. Turn the filter pump off and then reconnect the Pool-Sweep.

WINTERIZING PROCEDURES. If your pool is closed down for winter, these steps should be followed: (1) Drain all water from head, hoses and pump; (2) Lay all hoses out straight. (3) Disconnect pump and store with Pool-Sweep Head inside from weather and extreme cold; (4) Be sure proper winterizing of above and below-ground piping is done in accordance with winterizing practices.

If you are in an area subject to periodic freezing conditions, but pool equipment is kept in operation, you should note the following: It is very important that filtering and Pool-Sweep systems be in operation during times when hard freezing occurs...normally between 3 am and 7 am. Running Pool-Sweep at this time will insure against damage and may prevent freezing of pool water.

Inline Y-Filter (OPTIONAL). To clean Y-filter screen (K96-4) inside the Y-filter: (1) turn off both Pool-Sweep and filter pumps; (2) remove Y-filter cap (K96-3); (3) turn on filter pump *for a few seconds* to flush out debris from inside the filter; (4) turn filter pump off and replace Y-filter cap; (5) re-start system for normal operation making sure the filter pump is running at least five minutes before restarting Pool-Sweep pump.



If you have any trouble with your Pool-Sweep, we suggest that you contact your Pool dealer.

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