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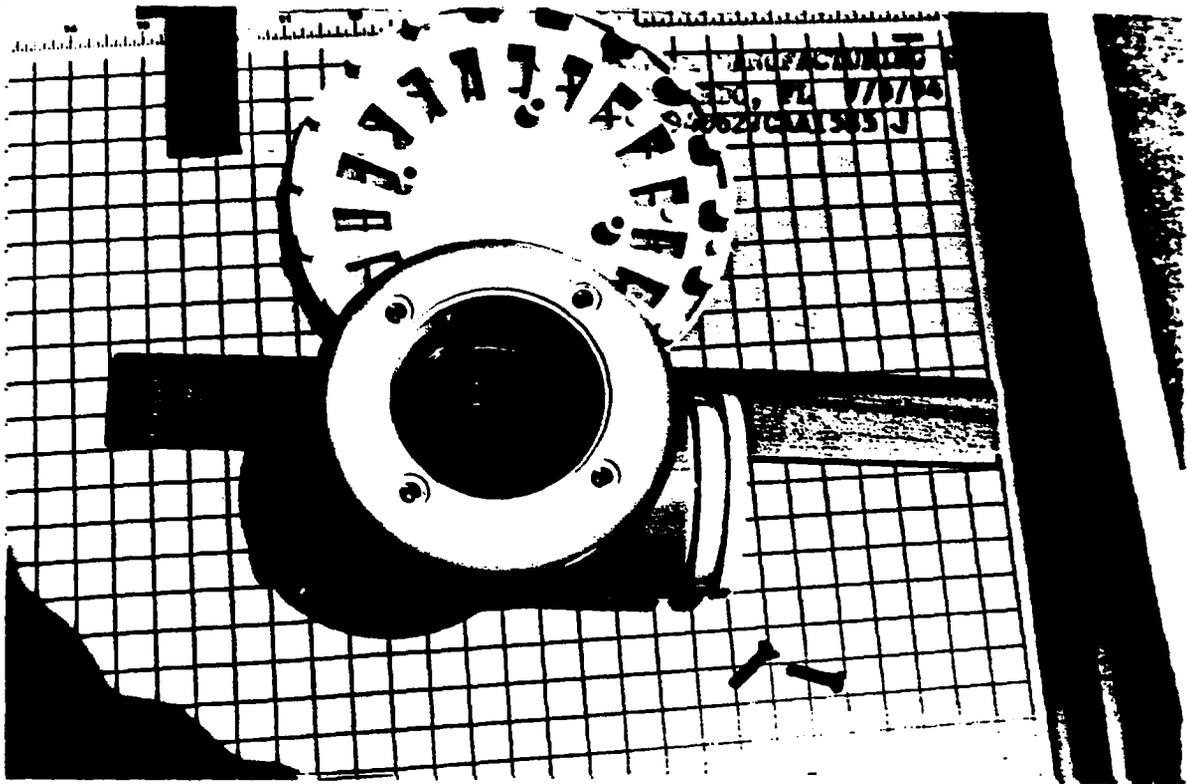
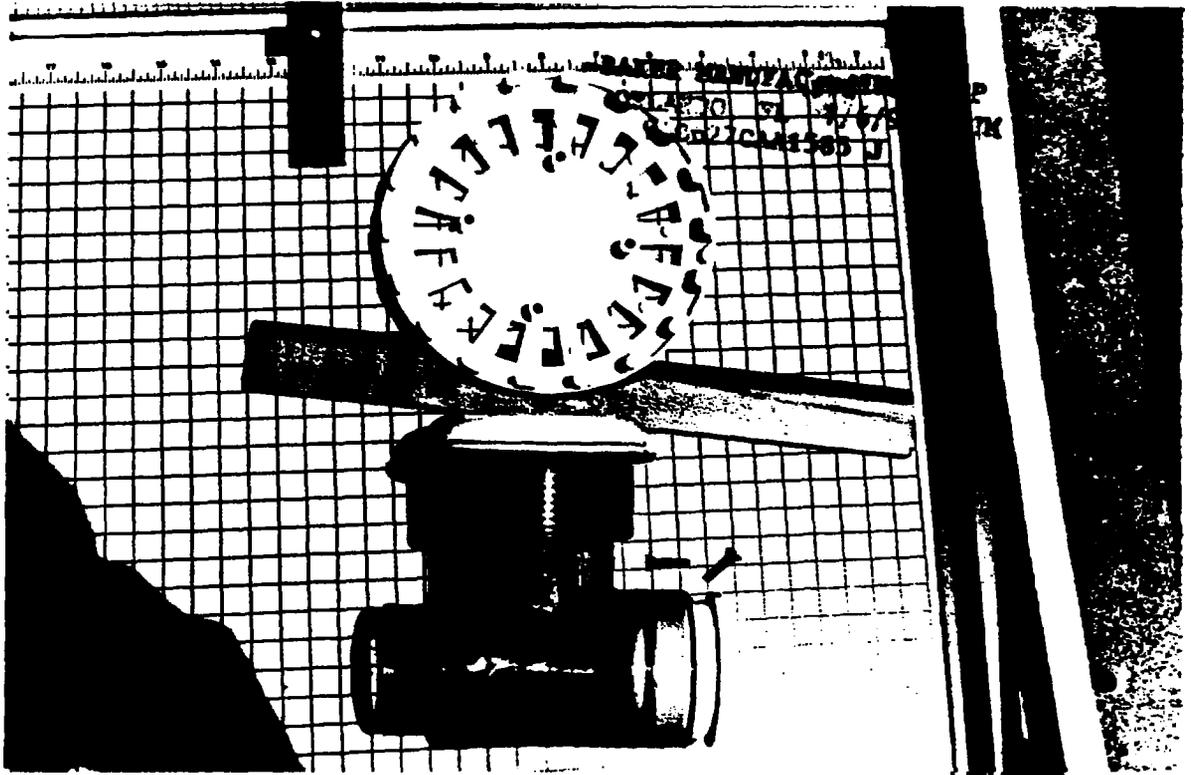


PHOTO 5 UNDERSIDE OF DOMED COVER THAT ATTACHES TO THE DOMED "TEE"

PHOTO 6 AS ABOVE



19

-BAKER MANUFACTURING CORP
ORLANDO, FL 7/6/94 EJM
940627CAA1585 J

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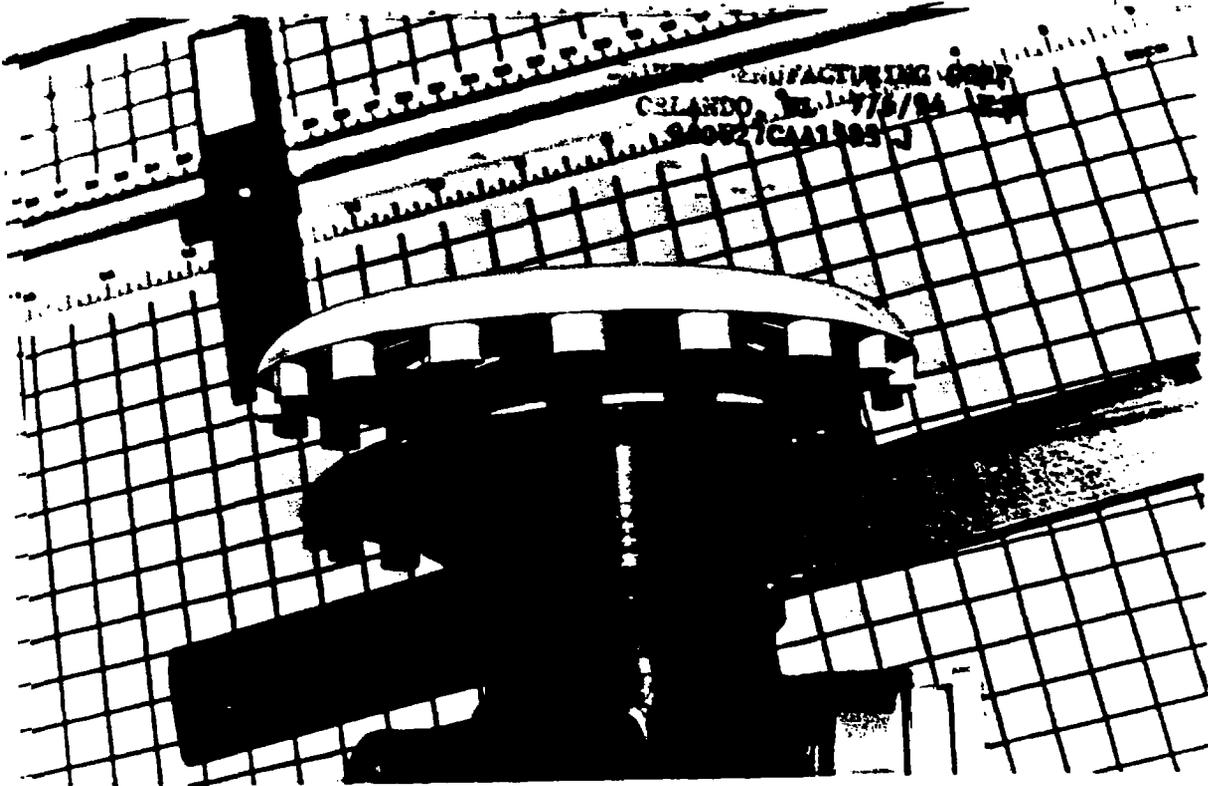
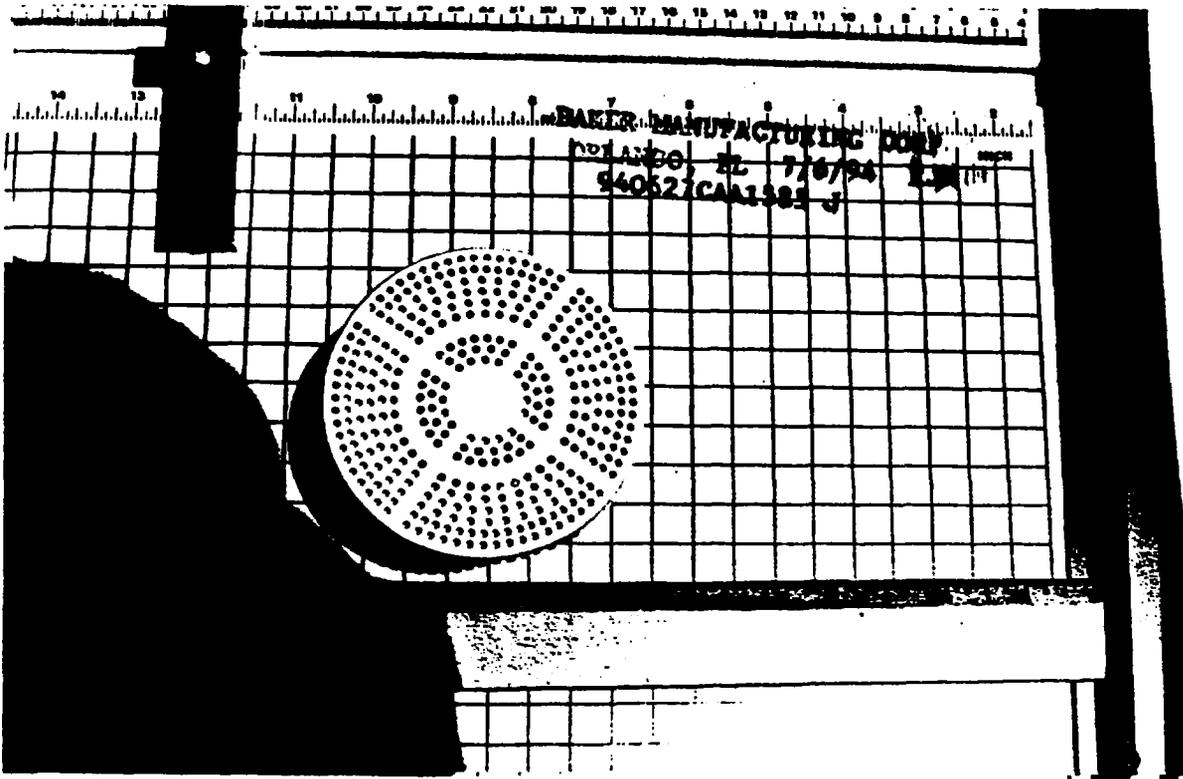


PHOTO 7 DOMED COVER SHOWN IN THE INSTALLED POSITION OVER THE "THRU FLOOR FITTING"

PHOTO 8 "SLIMLINE SUCTION FITTING ASSEMBLY" AS NOTED ON THE ATTACHED ,"10-6900" INSTRUCTION SHEET- ATTACHED. COVER AS INSTALLED ON THE SIDE WALL.



20

-BAKER MANUFACTURING CORP
ORLANDO, FL 7/6/94 EIM
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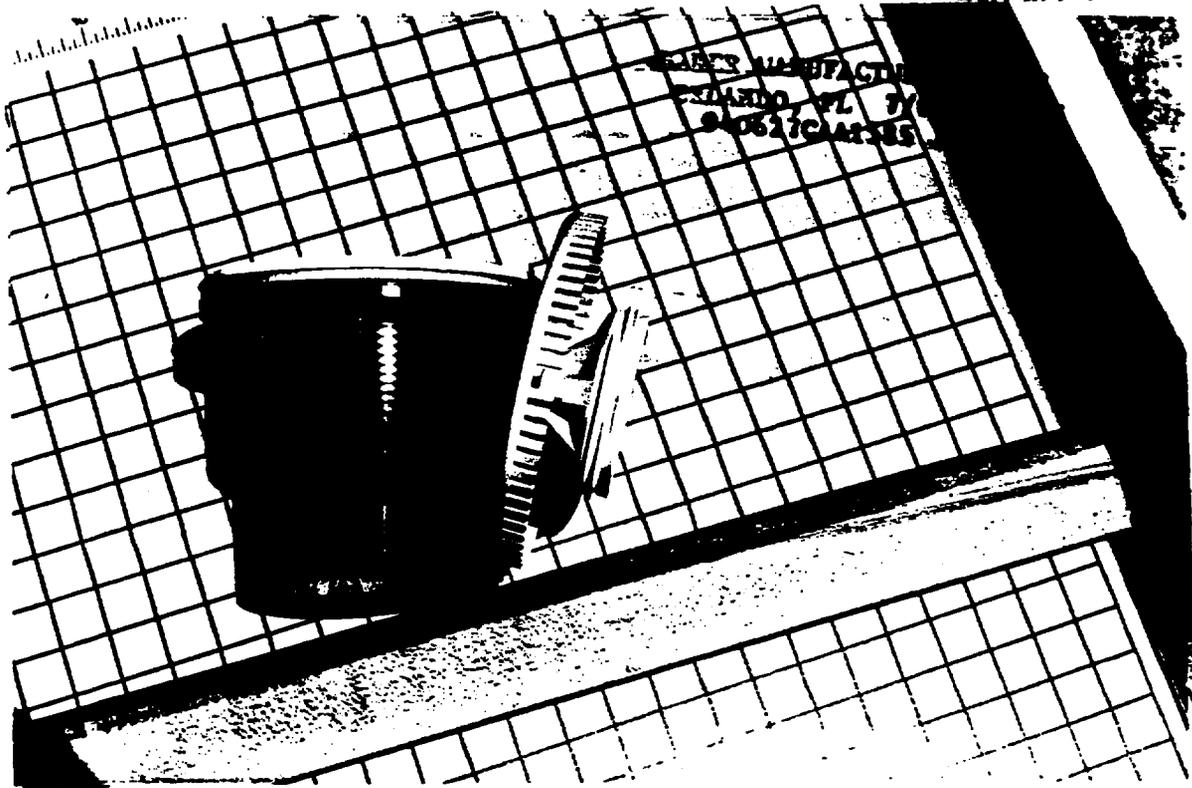
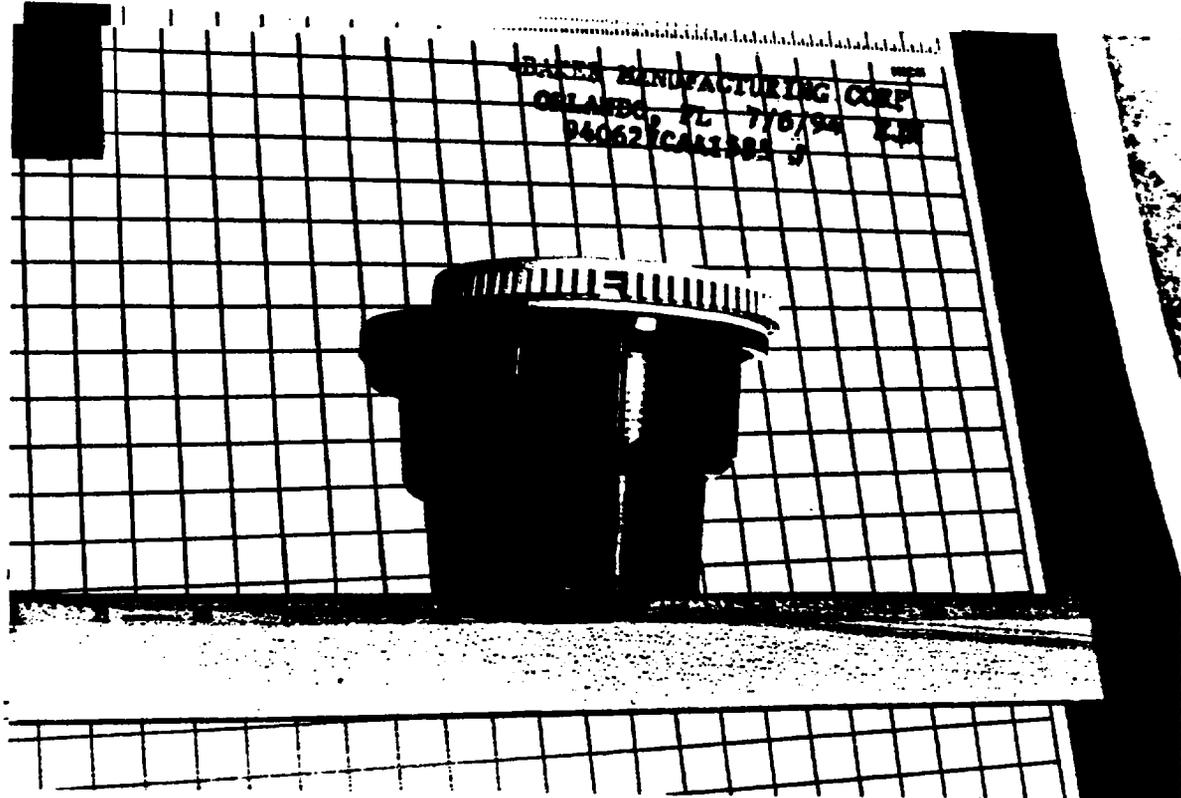


PHOTO 9 ABOVE FITTING SHOWN HERE WITH THE COVER OVER THE FITTING.
PHOTO 10 AS ABOVE WITH COVER SEPARATED FROM THE FITTING.



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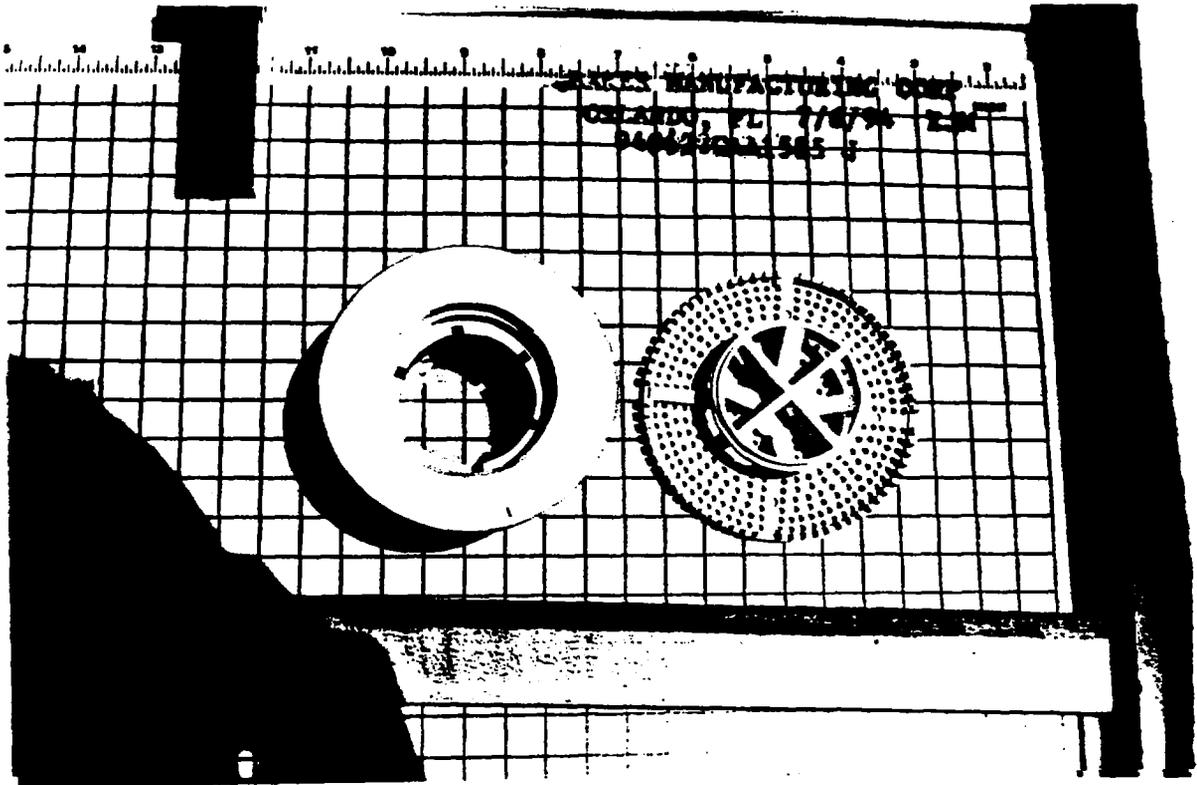
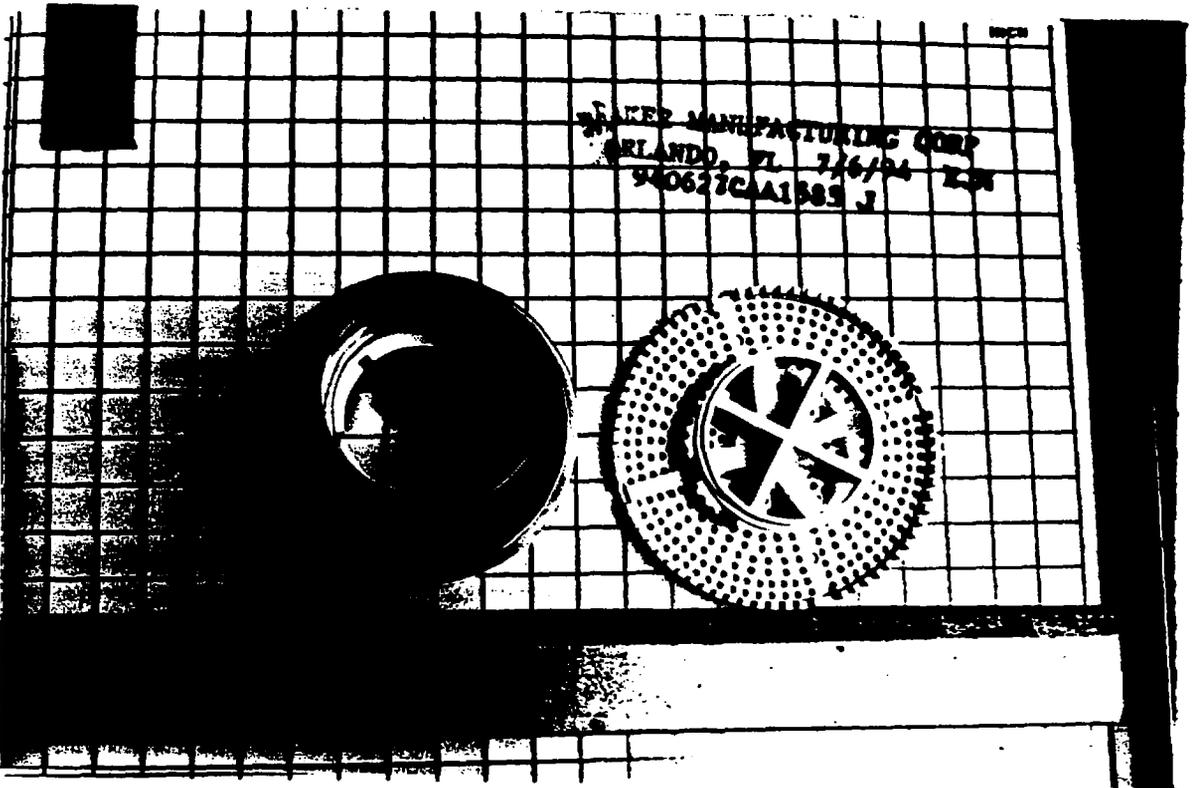
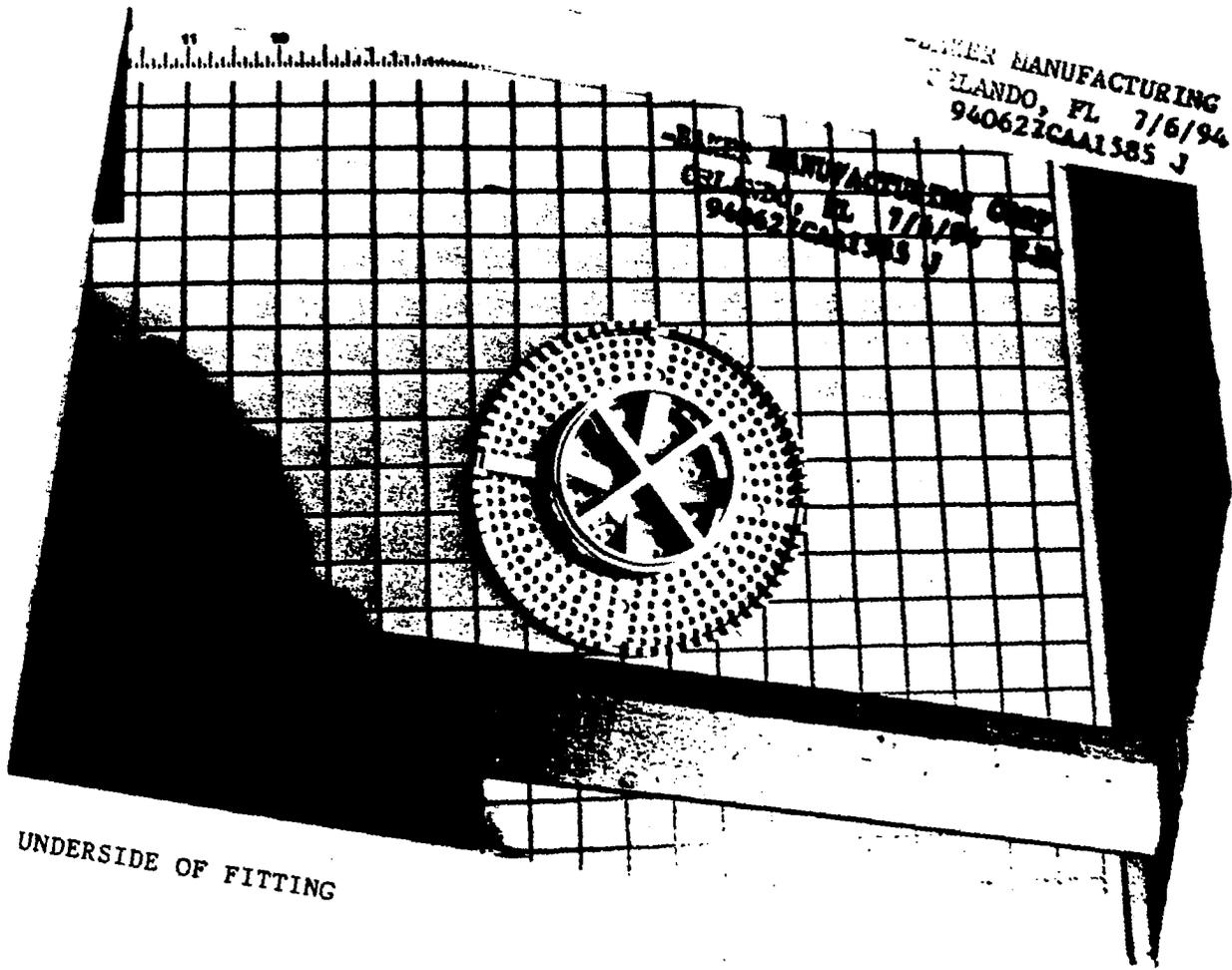


PHOTO 11 FITTING WITH UNDERSIDE OF COVER

PHOTO 12 AS ABOVE WITH REVERSE SIDE OF FITTING





BAKER MANUFACTURING CORP
ORLANDO, FL 7/6/94 EJM
940622CAA1585 J

BAKER MANUFACTURING CORP
ORLANDO, FL 7/6/94 EJM
940622CAA1585 J

PHOTO 13 UNDERSIDE OF FITTING

-BAKER MANUFACTURING CORP
ORLANDO, FL 7/6/94 EJM
940627CAA1585 J

7 negatives in 7

U.S. CONSUMER PRODUCT SAFETY COMMISSION
NOTICE OF INSPECTION

1. DATE 7/6/94	3. FROM (Area Office and Address) U.S. CONSUMER PRODUCT SAFETY COMMISSION 7200 LK. ELLENOR DRIVE SUITE 246 ORLANDO, FLORIDA 32809-5742 TELEPHONE (407) 648-6261
2. TIME 10:35 A.M. _____ P.M.	

4. TO	A. NAME AND TITLE OF INDIVIDUAL MR. RONALD K. NORREBS, PRESIDENT
	B. FIRM NAME BAKER MANUFACTURING CORP
	C. NUMBER AND STREET ADDRESS 4300-D L.B. TRACY McLEOD RD
	D. CITY, STATE AND ZIP CODE ORLANDO, FL 32811

- Notice of Inspection is hereby given pursuant to:
- Flammable Fabrics Act (15 U.S.C. 1191 *et seq.*); (407) 645-3371
FAK(407) 246-0471
 - Federal Trade Commission Act (15 U.S.C. 41 *et seq.*);
 - Sections 16, 19 and 27 of the Consumer Product Safety Act (15 U.S.C. 2065, 2068 and 2076)
 - Section 704(a) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 374(a)) [Authority for inspections in connection with the Poison Prevention Packaging Act of 1970 (15 U.S.C. 1471 *et seq.*)] and/or
 - Section 11(b) of the Federal Hazardous Substances Act as Amended (15 U.S.C. 1270(b)).

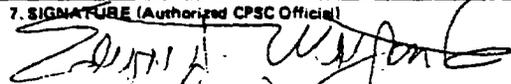
Refer to the back of this form for a discussion of inspectional authority and for pertinent statutory language.

5. PURPOSES OF INSPECTION AND NATURE OF INFORMATION TO BE OBTAINED AND/OR COPIED.

The purpose of this inspection is to obtain information: to review and obtain copies of items including but not limited to records, reports, books, documents; and labeling; and to obtain samples, in order to enforce or determine compliance with the Acts administered by the Consumer Product Safety Commission.

8. FREEDOM OF INFORMATION REQUIREMENTS

Those from whom information is requested should state whether any of the information submitted is believed to contain or relate to a trade secret or other matter which should be considered by the Commission to be confidential and whether any of the information is believed to be entitled to exemption from disclosure by the Commission under the provisions of the Freedom of Information Act (15 U.S.C. 552). Any statement asserting this claim of confidentiality must be in writing, and any request for exemption of the information from disclosure must be made in accordance with the Commission's Freedom of Information Act regulations, 16 CFR Part 1015.

7. SIGNATURE (Authorized CPSC Official)


25

CONSUMER PRODUCT SAFETY COMMISSION
ROUTE SLIP

TO Judy Hayes

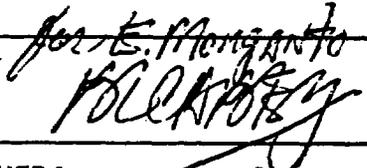
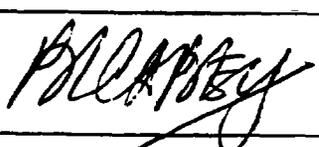
- Take necessary action
- Approval or signature
- Comment
- Prepare reply
- Discuss with me
- For your information
- See remarks below

FROM B. Cahery / FCER

DATE 8/9/94

REMARKS _____

FIELD ACTIVITY COVERSHEET

1. REGION/STATE FOER	2. OPERATION (Check One) <input type="checkbox"/> Inspection <input type="checkbox"/> Establishment Visit <input type="checkbox"/> Telephone Contact <input checked="" type="checkbox"/> Investigation <input type="checkbox"/> Other	3. DATE 7/8/94
		4. NUMBER (For RO Use) 940627CAA1585
5. ESTABLISHMENT Name : Baker Manufacturing Corp. Address: 4300 L.B. McLeod Rd. City : Orlando State: <u>FL</u> Zip: <u>32811</u> Telephone: <u>(407) 649-3371</u>		
6. RELATED FIRM <input type="checkbox"/> Parent <input type="checkbox"/> Headquarters <input type="checkbox"/> Subsidiary <input checked="" type="checkbox"/> Other _____ Name: [Hydro Air Ind. Inc.] City: [Orange] State: [CA]		
7. PRODUCTS COVERED SPA - Back Yard Pool/Spa	8. OTHER CONSUMER PRODUCTS N/A	
9. ESTABLISHMENT TYPE <input checked="" type="checkbox"/> Manufacturer <input type="checkbox"/> Importer <input type="checkbox"/> Wholesaler <input type="checkbox"/> Own Label Distributor <input type="checkbox"/> Retailer <input type="checkbox"/> Repackager <input type="checkbox"/> Other:	10. ANNUAL PRODUCTION Product Covered \$ <u>N/A</u> Units: Other Products \$ <u>N/A</u> Units:	
11. I.S. BUSINESS % Received <u>00</u> % Shipped <u>00</u>	12. SAMPLES COLLECTED None	13. MIS CODE 32721
14. HOURS Activity <u>50</u> Travel <u>5</u>		
15. REASON FOR ACTIVITY (Assignment Reference) 940627CAA1585 - F/U to Near drowning (Hair entrapment) of 10 yr old female in backyard pool/spa.		
16. ANNOUNCED <input checked="" type="checkbox"/> Rationale for Announced Inspection UNANNOUNCED <input type="checkbox"/>		
17. EMPLOYEE'S NAME Edward J. Morganto	TITLE Investigator	SIGNATURE 
18. (X) ENDORSEMENT <input type="checkbox"/> REMARKS <input type="checkbox"/> SUMMARY <input type="checkbox"/> OTHER []		
<p>The waist length hair of a 10 year old female became entangled in the bottom drain of a backyard pool/spa as she performed a head stand within the spa. The entrapped victim's hair was cut away using scissors, the victim received mouth to mouth resuscitation and was revived. It appears the victim has fully recovered without injury.</p> <p style="text-align: center;">Follow-up: Refer to EPDS, CECA.</p>		
19. REVIEWER'S NAME Bernard L. Cabey	TITLE Supervisory Investigator	SIGNATURE 
20. REVIEW DATE 7/20/94	21. DISTRIBUTION O: EPDS CC: RD, READ, CECA, ORL-RP	

1. CASE NUMBER 940627CAA1585		2. INVESTIGATOR'S ID 8 0 5 7		3. OFFICE CODE 8 0 0		EPIDEMIOLOGIC INVESTIGATION REPORT	
4. INCIDENT DATE YR MO DAY 9 4 0 4 0 8		5. DATE IDI INITIATED YR MO DAY 9 4 0 6 2 7					
6. SYNOPSIS OF INCIDENT OR COMPLAINT The waist length hair of a 10 year old female became entangled in the bottom drain of a backyard pool/spa as she performed a head stand within the spa. The entrapped victim's hair was cut away using scissors, the victim received mouth to mouth resuscitation and was revived. It appears the victim has fully recovered without injury.							
7. LOCATION Swimming Pool (Spa) 5 6		8. CITY Lecanto			9. STATE FL		
10A. FIRST PRODUCT Spa, Home 3 2 6 2		11A. TRADE/BRAND NAME, MODEL NUMBER, MANUFACTURER & ADDRESS Spillway-Granville SW-302R Baker Manufacturing Corp. 4300 L. B. McLeod Rd. Orlando FL. 32811					
10B. SECOND PRODUCT Spa Drain 3 2 6 2		11B. TRADE/BRAND NAME, MODEL NUMBER, MANUFACTURER & ADDRESS Hydro Air Orange, CA.					
12. AGE OF VICTIM 0 1 0		13. SEX 2		14. DISPOSITION Hospitalized Overnight		15. INJURY DIAGNOSIS Submersion (Near Drowning)	
16. BODY PART All 8 5		17. RESPONDENT(S) Playmate Mom & Dad of Playmate		18. INVESTIGATION TYPE 1		19. TIME SPENT 5 0. 0	
20. ATTACHMENTS Multiple 9		21. CASE SOURCE News Clip 0 5		22. REVIEWED BY 8969		YR MO DAY 94 07 19	
23. PERMISSION TO DISCLOSE NAMES (NON-NEISS CASES ONLY) CPSC MAY DISCLOSE MY NAME <input type="checkbox"/> CPSC MAY NOT DISCLOSE MY NAME <input checked="" type="checkbox"/>							
24. NARRATIVE (See Instructions on Page 2)				25. REGIONAL DIRECTOR REVIEW DATE  7/24/94			

(USE ADDITIONAL SHEETS IF NECESSARY)

PRE-ACCIDENT:

Two ten year old girls were playing in the main pool when they decided to exit the pool and use the spa. In preparation for using the spa, they turned the heater on to the maximum reading. The mother of the girl, who was the homeowner, had previously observed that the water level in the spa was down several inches and consequently she went to the telephone to call her husband in order to determine how to raise the water level in the spa. Meanwhile, the homeowner's daughter, challenged the 10 year old female visitor to a game, "Dare". The challenge was to do a hand stand within the spa.

While the mother was on the phone, her daughter came in to tell her that her friend's hair was tangled up within the main drain of the spa. At that point the rescue effort began.

Conversation with the homeowner and her daughter indicated that both females were healthy, normal, active without any acute illnesses, chronic illnesses, handicaps or disabilities. Neither of the females had attempted this activity within the spa before this incident period.

The house and swimming pool/spa are both approximately one year old and the homeowner said she didn't experience any problems prior to this incident.

INCIDENT:

The victim, challenged to do a hand stand within the spa, attempted to do so whereupon her waist length hair became entangled within the bottom drain of the spa. The heater had been turned only for a few minutes, immediately prior to the two females entering the spa.

POST INCIDENT:

When the homeowner's daughter realized her friend's hair was entangled in the bottom drain of the spa, she ran to her mother, who was on the telephone, to advise her that her friend was trapped underwater within the spa. The homeowner went from the phone directly to the circuit breaker and tripped the circuit to the spa. However, her daughter and her eight year old brother were unsuccessful in attempting to free the victim whose hair was caught in the bottom drain.

At that time, a service man, who was returning a car to the homeowner arrived on the scene. The homeowner instructed him to assist in the rescue operation while she ran into the house, obtained a pair of scissors, and called 911. Returning to the pool with the scissors, the service agent cut off the victim's hair where it had been entrapped within the drain.

The victim was unconscious at this point, the service man provided mouth to mouth resuscitation and the victim was revived. Meanwhile the EMT Team arrived treated the victim, and transported the victim to a local hospital where she was kept overnight for observation. It appears the victim has fully recovered and will have no lasting injuries from this incident.

As a precaution, and an attempt to prevent this type of accident in the future, the homeowner's husband has installed ordinary outdoor fiberglass screening between the bottom of the pool, and the pool drain cover. This retrofit was accomplished by removing the four screws in the drain, raising the cover, placing the screening over the open drain, and re-inserting the four screws back into their original position. Photographs of the spa, the pool, and the retrofitted drain are attached to this report as exhibit #1.

Specifications for the drains, and the spa, were obtained during a follow-up inspection of both the installer and the manufacturer. These inspections are under separate cover.

PRODUCT IDENTIFICATION:

The backyard installation was performed by Apollo Pools & Spa Inc., 609 East Gulf to Lake Highway (Rt 44), Lecanto, FL. 34461 (904) 726-3224. The pool itself is of gunite construction, the associated spa is an acrylic spa known as the Granville Sw-302 R. This acrylic pool is manufactured by Baker Manufacturing Co., 4300-D L. B. McLeod Rd., Orlando Fl. 32811 (407) 649-3371.

There are controls on the spa itself, and in a separate location, outside of the screened in pool/spa area. The electrical and water controls is depicted in photograph #5 of the attached exhibit. This is the area where the homeowner disconnected the circuit breaker.

As can be seen in the photograph 5 the system has two separate pumps and filtration systems, with a system to the left side of the heater containing the 1 1/2 horsepower pump used in the spa, while the equipment on the right side of the photograph is a 1 horsepower pump used in the main pool. I did not see any indications that the branch circuit had ground fault interrupter circuit breakers.

The main drain in the spa is identified as "10-6200 main Drain Assembly" manufactured by Hydro Air Industries Inc., Orange California. A spec sheet for this assembly as well as the # 10-6900 Slim Line Suction Fitting Assembly are depicted in the information supplied by Baker Manufacturing Corp. under separate cover.

The plastic domed cover for the main drain is approximately 6 inches in diameter and approximately 1 1/8 inches from the bottom of the drain, to the top of the dome. The cover has embossed, "FLOW RATE 60 G.P.M. HYDRO AIR P/N 10-6200" and has a shield with, "USPC" on it. This cover is designed to fit a model 10-6002, domed thru-floor fitting as depicted in the product information sheet provided by Baker Manufacturing Corp.

The dome cover itself has 18 openings in the domed surface. Each opening is approximately 3/8 inches by 1/4 inch by 3/4 inches long. The dome cover has 18 corresponding pillars that elevate the cover from the cool bottom by 5/16ths of an inch. The spaces between the pillars create a water access of the aforementioned 5/16ths inches by 1/2 inch. For further clarification please refer to the photographs attached to this report as figure #1 and the instructional information provided by Baker Manufacturing Inc. This main drain is designed "T" fashion terminating in one opening which approximately 2 3/4 inches outside diameter, with the other opening approximately 2 1/4 inches outside diameter. The design is such that this drain may be used with it's own separate pump, or incorporated to be used with a single pump that operates both the spa and the main pool area. Each side of the T is designed so that maybe closed off, depending on the intended use of the pumps supplying either of the spa or the main pool. For further information refer to the product information supplied by both the Apollo Pool Co. and the Baker Manufacturing Co., both inspections are under separate cover.

INVESTIGATIONAL GUIDELINES:

The following responses are designed to follow chronologically, Appendix 40.

A. Product Class Description - This acrylic spa is physically attached to the main swimming pool and is designed to have a spillover (Waterfall Effect). The spa has a hydrojet circulation system is designed to have hot water and air injection bubbles. The water depth, measured at the time of the inspection was approximately 29 inches to the bottom of the spa. Reportedly the spa was down, "several inches" at the time of the incident. The inside diameter of the pool was approximately 71 inches, and is equipped with approximately 2 ft. seat rail all around.

1. Specific items of interest:

1. Hair entanglement was involved in this incident
2. The users of the spa have not experienced any near misses in the past.
3. At present at the time of the accident were the two females, both 10 years and the homeowner's eight year old son.

2. The homeowner's daughter and son were familiar with this pool and have used this pool and spa combination, without any prior incident in the last year. What was different in during this incident was that the 10 year old female visitor was challenged to do a hand stand in the spa, that resulted in her hair entrapment. This activity had not previously been performed

3. Immediately preceding the accident all three children were playing in the main pool, when they decided to activate the spa and use the spa in continuation of their "Dare" game.

4. At the time of the incident, the following people were present, the 38 year old female homeowner, her 10 year old daughter, 8 year old son, and the 10 year old female visitor.

B. Pretext Summary - Information for this report was supplied by the homeowner, and his 10 year old daughter who was with the victim at the time of the incident.

1. Description of Victim - The victim was not available at the time of the interview, however the homeowner and his daughter stated that the victim was approximately the same age height and weight as the homeowner's daughter. Her height was 50 inches, her weight 60 pounds, and her age 10 years.

2. The victim was not using alcohol, or taking any medication at the time of the incident.

3. The victim was in the spa for only a few minutes, having previously exited the swimming pool, and activating the spa and the spa heating system. The victim, a visitor, had not frequently used the spa in the past.

The victim was in the spa alone, however the 10 year old homeowner's daughter and the 8 year old homeowner's son were in the immediate proximity of the spa at the time of the accident.

Specific medical diagnosis was not available, the victim was hospitalized overnight, and now appears to have fully recovered from the incident.

The victim's hair was described as being waist length. The victim was entrapped when her hair was entangled in the bottom pool drain cover.

The victim was attempting to do a hand stand in the spa at the time of the incident.

C. Description of Product - The main pool was build and installed by Apollo Pool & Spa Inc. Lecanto, FL. as a custom installation. The spa is designed to be an intricate part and attached to the pool, having a spill over "Waterfall" effect. The spa itself is a Spillway Spa, Granville Model SW-302R Acrylic Model. Literature, instructions and sales brochure are attached to this IDI. The inspection of Apollo Pools and the inspection of Baker Manufacturing, all under separate cover.

The spa itself was of acrylic construction and was located outside in a screened backyard location. Please see photographs attached as exhibit #1.

The temperature of the water, according to the homeowner, has a maximum reading of 104 degrees fahrenheit. However, at the time of the incident, the heater had been turned immediately prior to the incident, therefore the temperature of the water would not have reached it's maximum 104 degrees fahrenheit.

The thermostat of the heating device, as can be seen in the attached photograph, is kept at the, "MAX" reading.

The heater involved is a propane powered Teledyne Lab Series 1 as could be seen in photograph 6. A specification sheet for the Series 1 was not available, however a specification sheet for the Series 2 Model was obtained during the inspection of the Apollo Spa and Pool Co. and is attached to that inspection.

The spa's capacity is 280 gallons when filled to capacity, however as previously mentioned, the water was down, "several" inches at the time of the incident.

The spa water level was 29 inches to the bottom of the spa at the time of the investigation, however as above, the spa was down, "several inches" at the time of the incident.

The homeowner stated that there is only one, main drain, the installer stated that in addition to the bottom drain, the side drain was also being used as a suction drain, the manufacturer stated the spa is designed to be used with only the main drain in the bottom, the side drain was designed to be a water inlet to the spa. The spa manufacturer stated it would be possible to convert the side input to a suction drain, however that would be contrary to the manufacturer's instructions. The installer stated he will inspect the spa and determine if the side assembly is an input or output and will so advise me. This information will be supplemented to this report upon receipt.

The spa was an intricate part of the main pool and consequently was wired directly to the control section as noted in photograph 5.

Wire size and wire material was not determined during the investigation. The installer stated an outside contractor provides a service stating that all voltages are usually 220 volts.

The overcurrent protection are shown in the attached photographs 5, 9, 10 and 11. The system consists of 5, 20 amp circuit breakers.

At the time of the incident, the circuit breakers did not self trip, however they were tripped by the homeowner to turn off the current to the spa at the time of the incident. I did not observe any GFCI at the electrical control panel.

The spa system (and the main pool system) employ Jacuzzi filters, the homeowner stated that the model being used is a CFR-100 Model with recommended flow rates commercially of 37.50 gallons per minute and residentially at 100 gallons per minute. A spec sheet for the Jacuzzi Filter is attached as an exhibit. The filter for the spa is assembled to the 1 1/2 horsepower motor.

The spa has a cover, however it was not in use at the time of the incident. The cover was included as standard equipment.

STANDARDS:

Currently CPSC has no mandatory standards for spas. Both of the installer and the manufacturer are members of the National Spa and Pool Institute and feel that this spa will comply with the recommendations of NSPI.

SAMPLES COLLECTED:

None.

EXHIBITS:

The following exhibits are attached:

1. Photographs of the pool, spa and operating equipment. Please note detailed photographs of the bottom drain, as provided by Baker Manufacturing Co. are attached to that inspection report.
2. Photocopies of the Jacuzzi Owner's Manual
3. Photocopies of the Jacuzzi High Head Magnum Pump Manual
4. Copies of the Jacuzzi Ring Lok Cartridge Filter by Jacuzzi Information Sheet
5. Information sheet relating to the Granville SW-302R Spa
6. Copy of the Sheriff's Run Report (No other Sheriff's Report completed)
7. Copy of the assignment, including a copy of the newsclipping describing the event.

NOTE: For additional information refer to the inspection of Apollo Spa & Pool, Lacanto, Fl. and Baker Manufacturing Co., Orlando Fl.

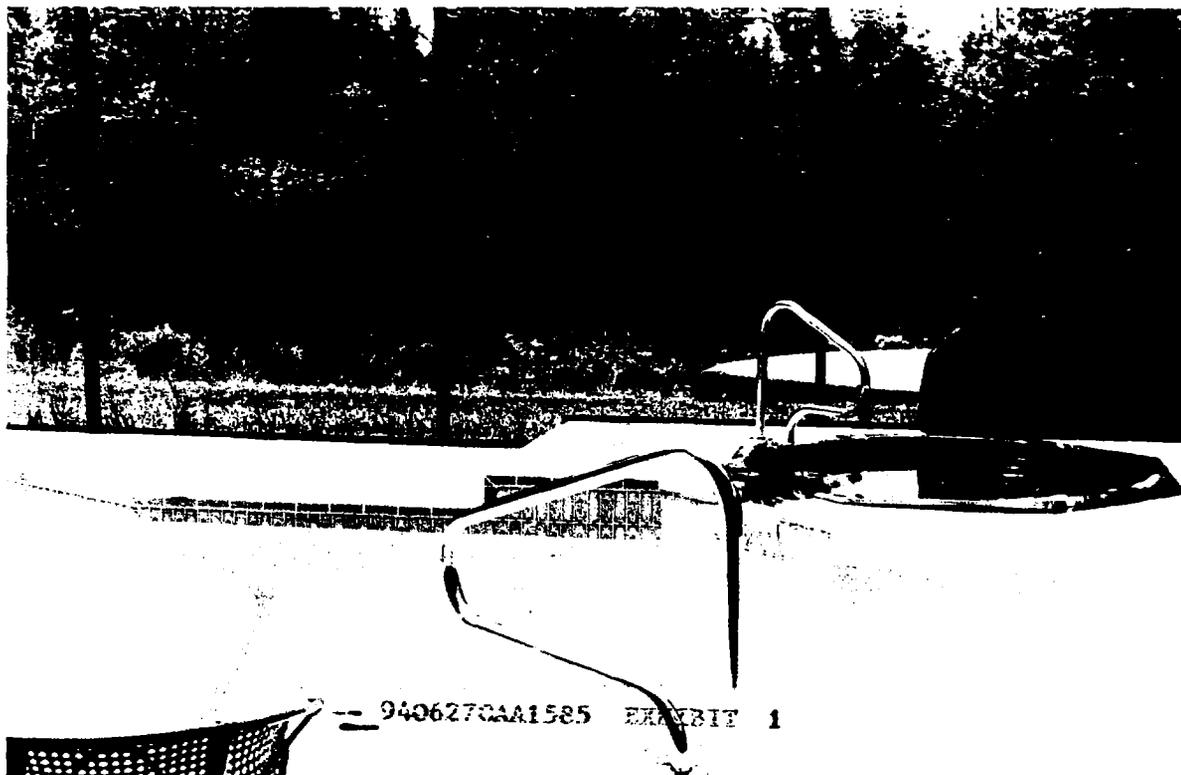
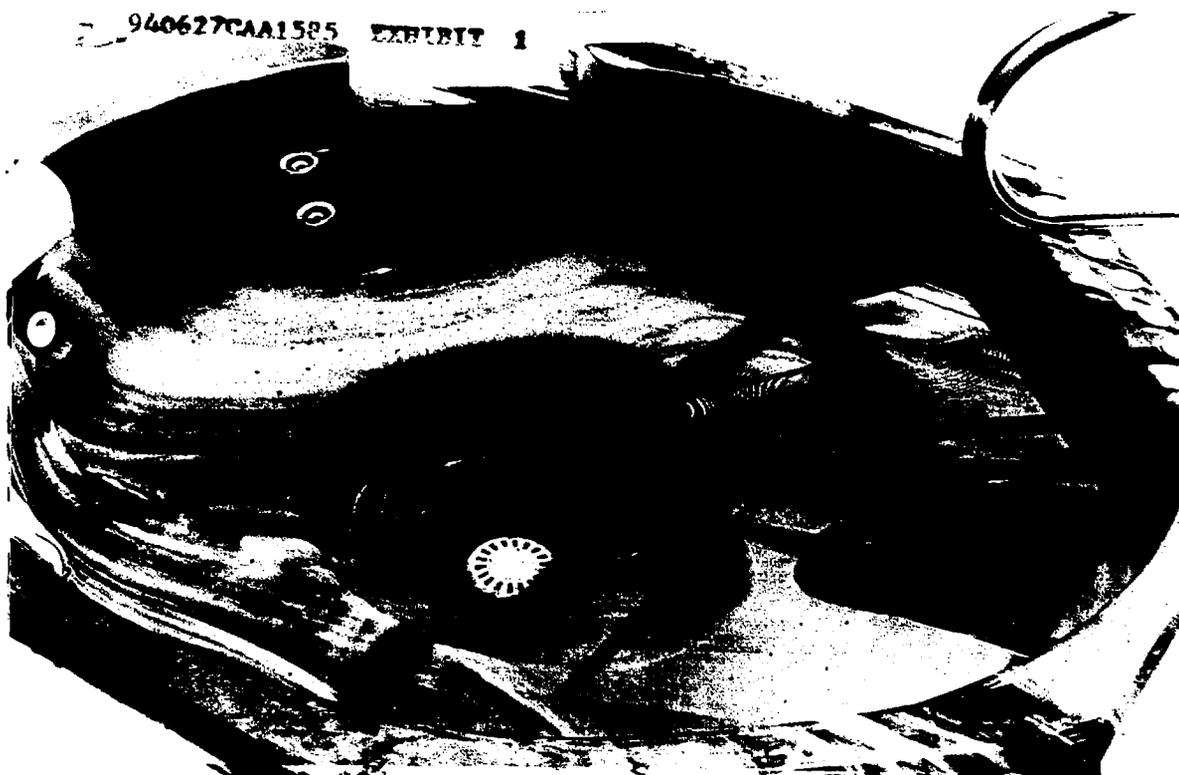
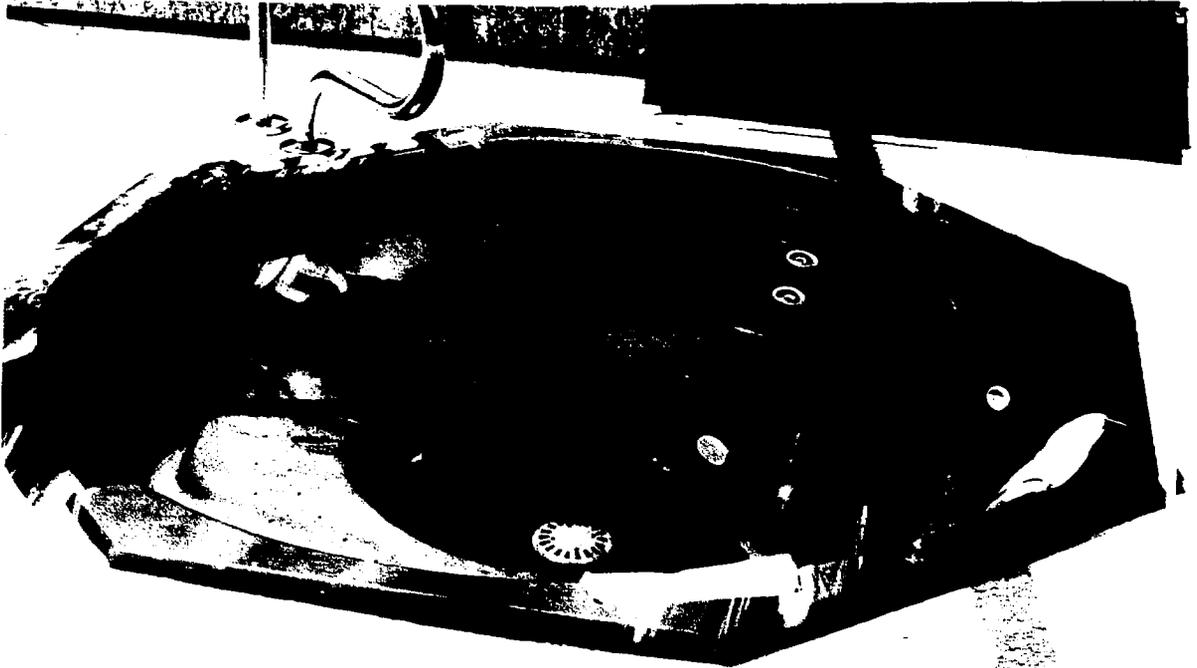


PHOTO 1 OVERVIEW OF THE SPA AND ITS ASSOCIATION WITH THE MAIN POOL. THE DESIGN IS SUCH THAT THE SPA SPILLS OVER INTO THE MAIN POOL, WATERFALL STYLE.

PHOTO 2 AS ABOVE WITH THE SPILLWAY SHOWN AT THE TOP LEFT CENTER, THE CONTROLS ARE AT THE RIGHT SIDE, UNDER THE ASSIST HANDLE. THE BOTTOM DRAIN HAS BEEN MODIFIED, BY THE CONSUMER, BY SEPARATING THE DOMED DRAIN, BY UNSCREWING THE TOP DRAIN COVER AND INSERTING A PIECE OF FIBERGLASS SCREENING UNDER THE DRAIN AND REATTACHING THE COVER IN ITS ORIGINAL POSITION. IT WAS THIS DRAIN THAT ENTRAPPED THE VICTIM'S HAIR.

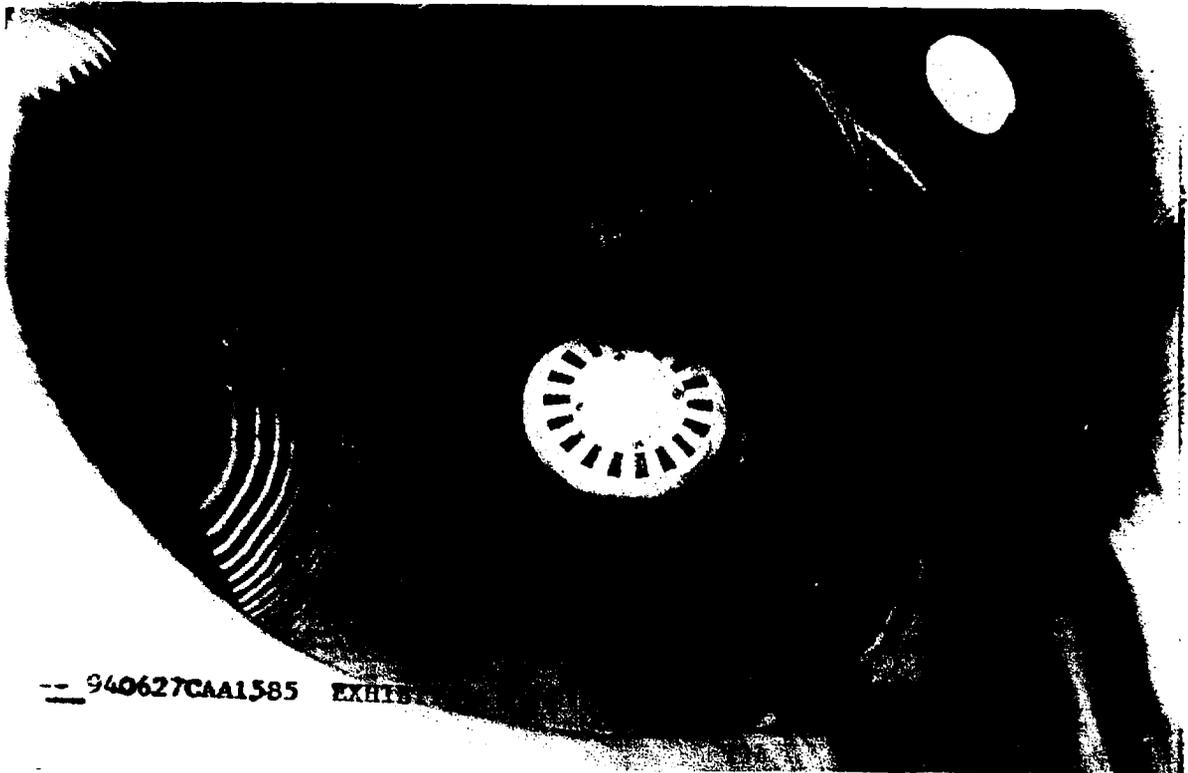




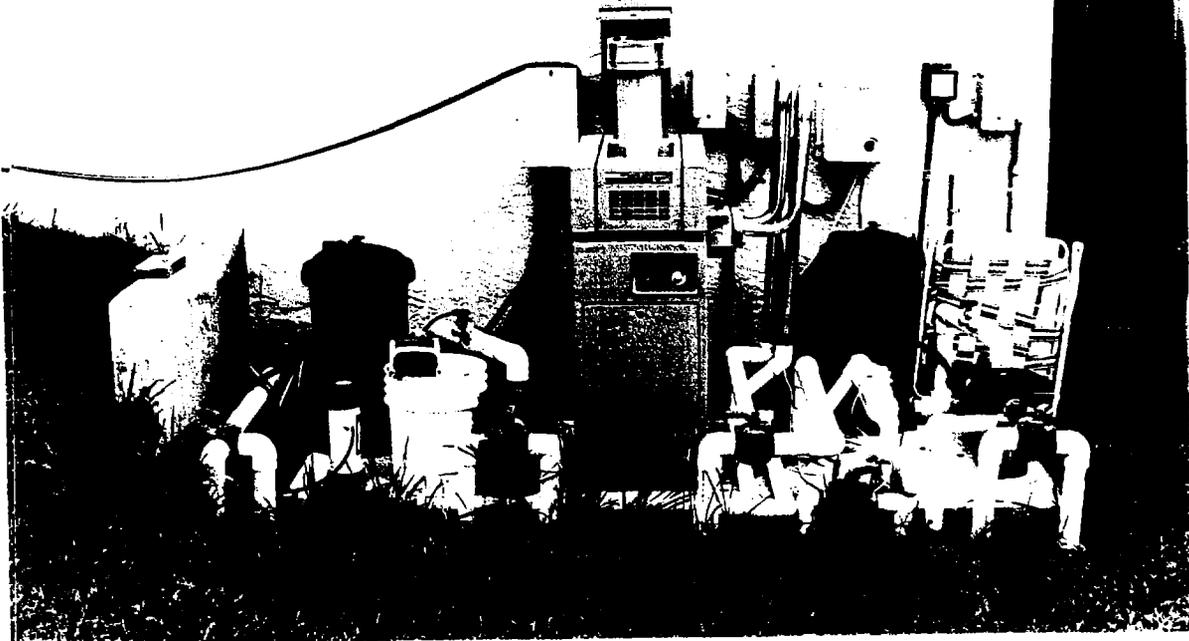
-- 940627CAA1585 EXHIBIT 1

PHOTO 3 OVERVIEW OF THE SPA

PHOTO 4 CLOSE-UP OF THE BOTTOM DRAIN WITH THE MODIFIED FIBERGLASS SCREENING INSERTED UNDER THE COVER.



-- 940627CAA1585 EXHIBIT 1



9CAA1585 EXHIBIT 1

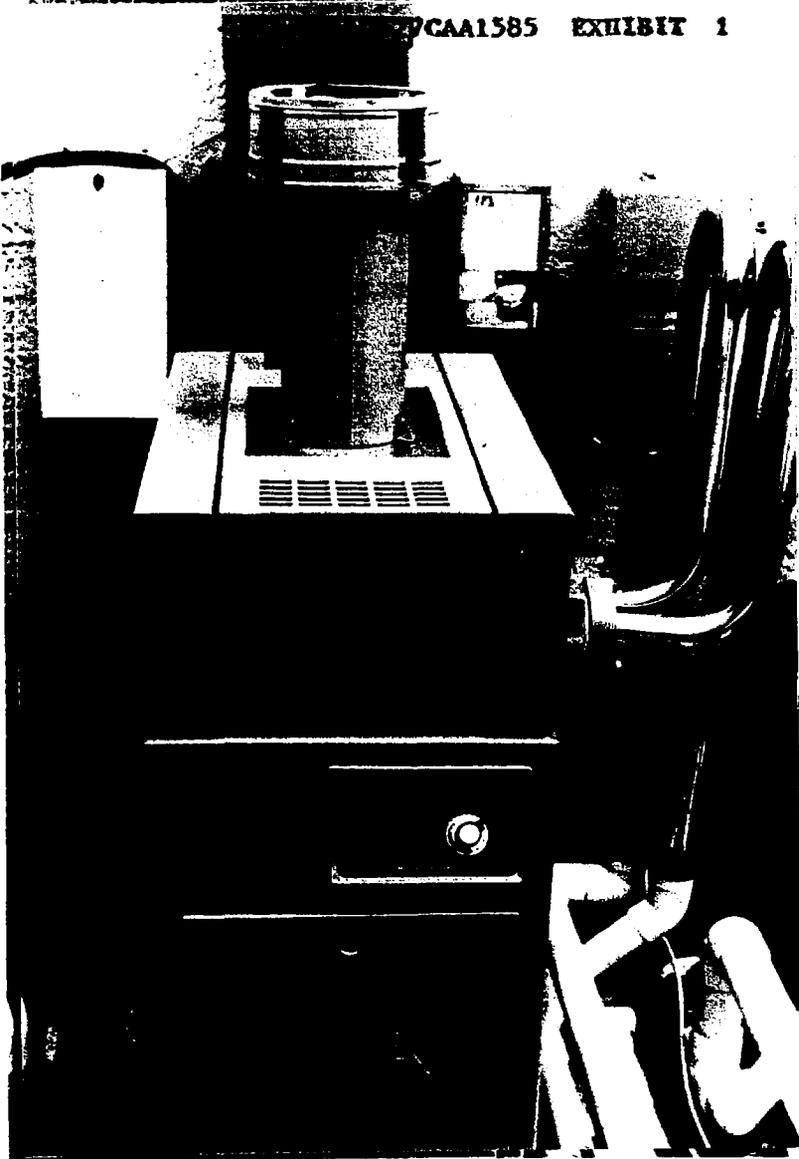


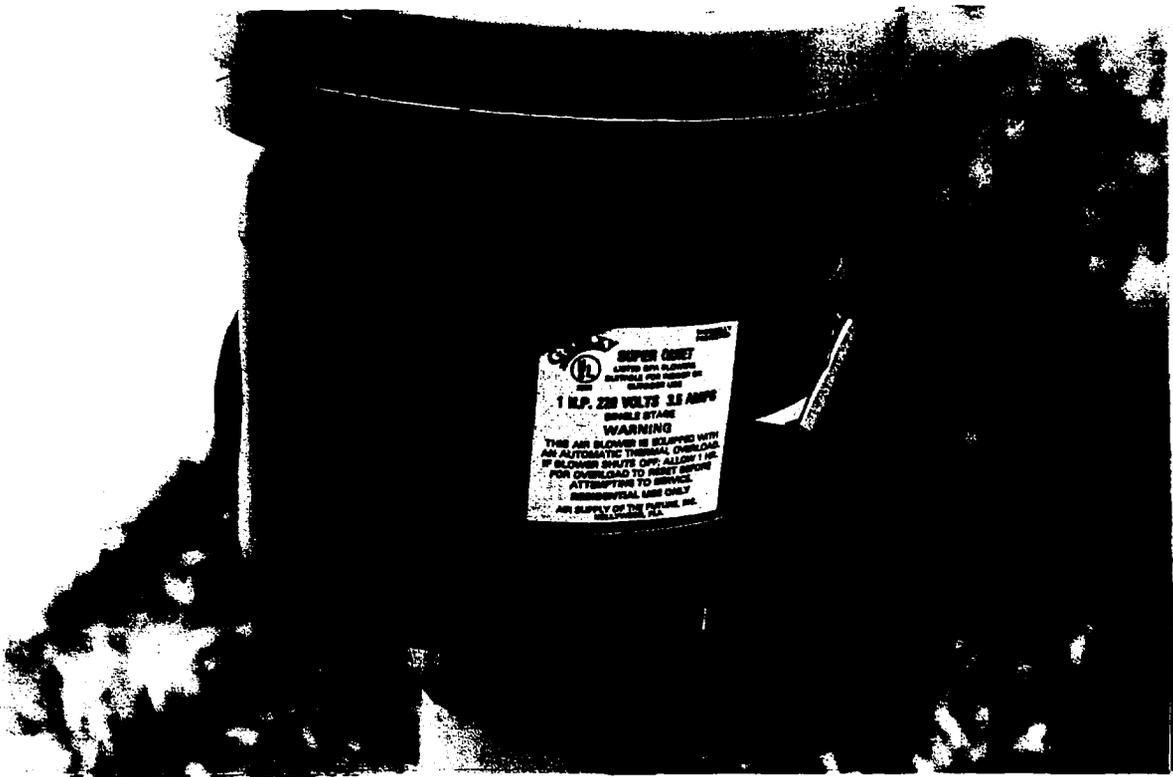
PHOTO 5 (above) CONTROLS FOR THE SPA AND POOL, SHOWN HERE WITH THE HEATER IN THE CENTER THIS IS A TWO PUMP SYSTEM, WITH THE 1½ HP PUMP BEING USED FOR THE SPA AND THE 1 HP PUMP BEING USED FOR THE MAIN POOL. THE EQUIPMENT ON THE LEFT SIDE IS USED FOR THE SPA, THE EQUIPMENT ON THE RIGHT SIDE IS FOR THE MAIN POOL.

PHOTO 6 HEATER



PHOTO 7 HEATER CONTROL

PHOTO 8 1 HP MOTOR FOR MAIN POOL. DUE TO PLACEMENT OF THE SPA MOTOR(1½ HP), IT WAS NOT PRACTICAL TO ATTEMPT TO PHOTOGRAPH THIS MOTOR.



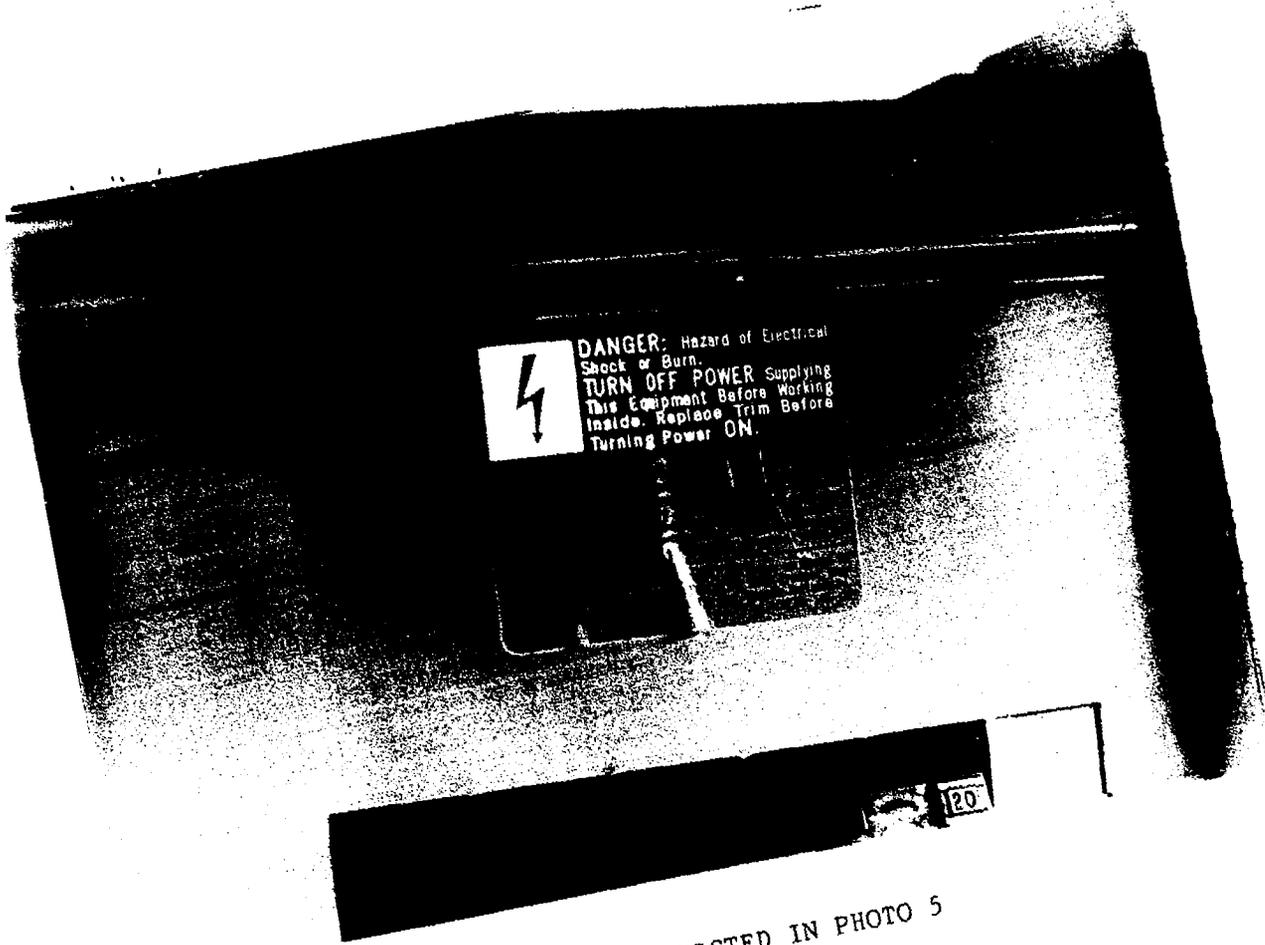
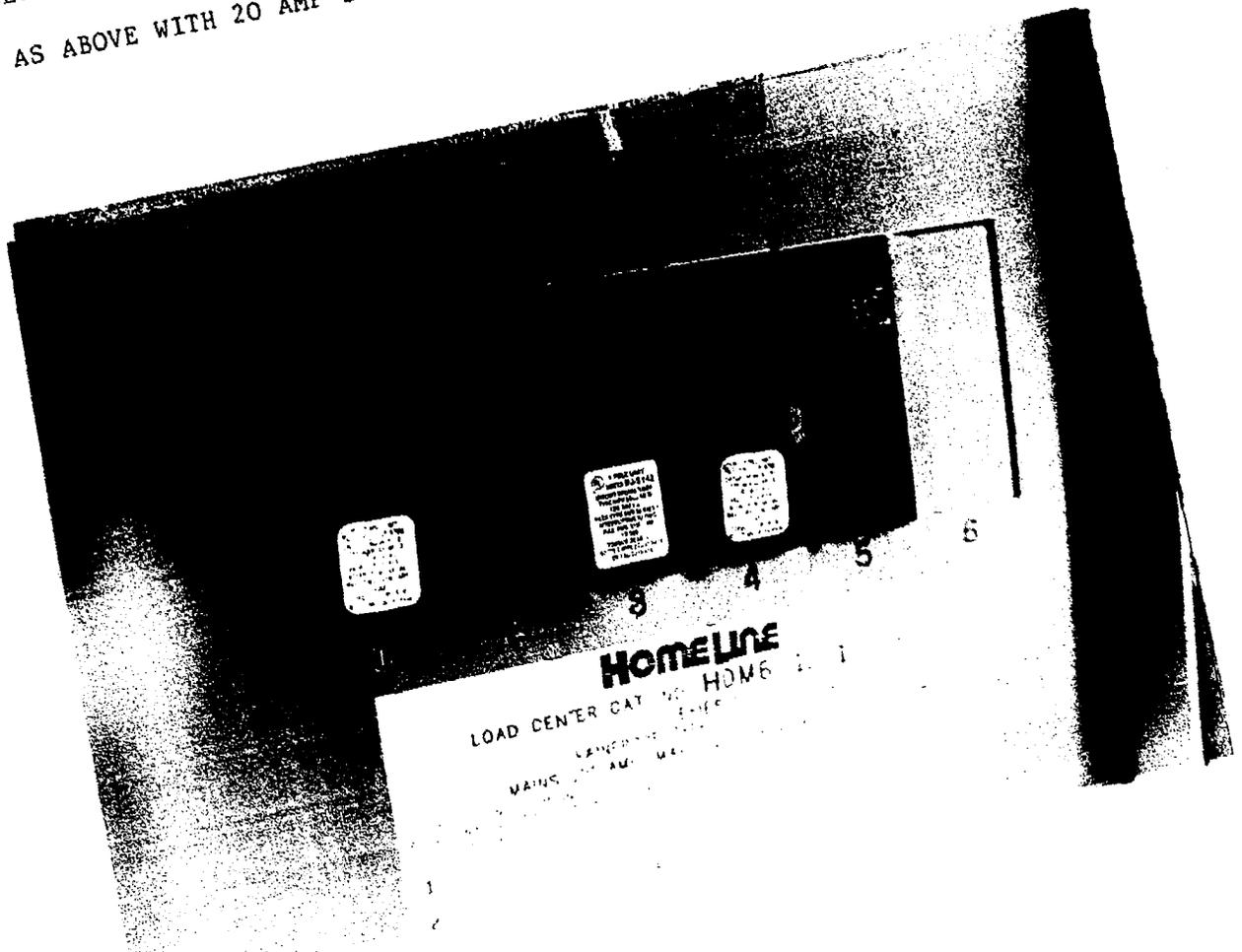


PHOTO 9 ELECTRICAL LOAD CENTER AS DEPICTED IN PHOTO 5

PHOTO 10 AS ABOVE WITH 20 AMP BREAKERS



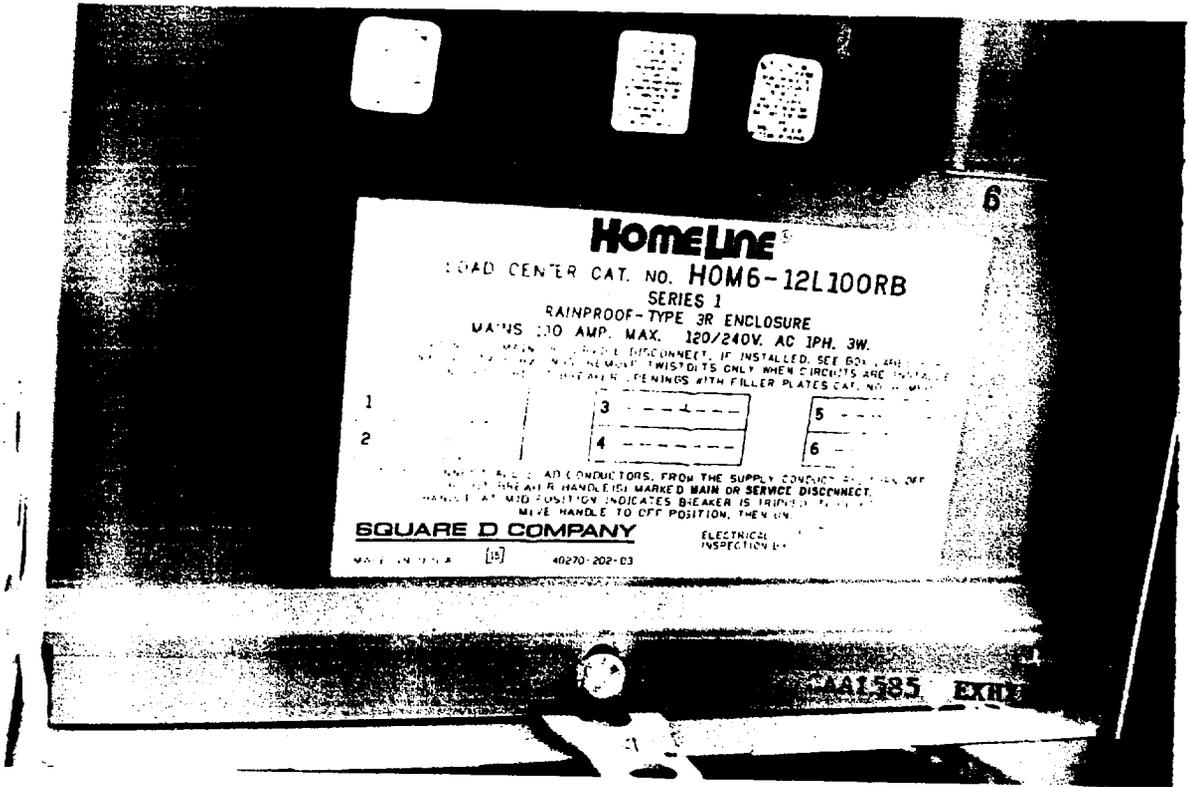


PHOTO 11 ELECTRICAL BREAKER BOX AS IN PRIOR PHOTOS

PHOTO 12 CONTROLS AS NOTED IN PHOTO 5



Magnum Series Pumps Owner's Manual

E-1400

Before Installation be sure to read all instructions and warnings carefully.

Refer to product dataplate(s) for additional operating instruction and specifications.

INSPECTION

Examine the equipment when received. Notify your dealer or carrier of any damage or missing parts. Verify that equipment is of size and model specified.

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. WARNING—To reduce risk of injury, do not permit children to use this product unless they are closely supervised at all times.
3. WARNING—(For cord & plug connected units) Risk of Electric Shock. Connect only to 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.
4. WARNING—(For cord & plug connected units) Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers and other equipment.
5. WARNING—(For cord & plug connected units) To reduce the risk of electric shock, replace damaged cord immediately.
6. WARNING—(For cord & plug connected units) To reduce the risk of electric shock, do not use an extension cord to connect unit to electric supply; provide a properly located outlet.
7. CAUTION—(For pumps with a 25ft. (7.62m) cord) This pump is for use with storable pools only. Do not use with permanently installed pools. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.
8. CAUTION—(For pumps with/without 3ft. (.91m) cord) This pump is for use with permanently installed pools and may also be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity.

9. WARNING—(for hot tub and spa pumps) Do not install within an outer enclosure or beneath the skirt of the hot tub or spa, unless so marked.

10. SAVE THESE INSTRUCTIONS

INSTALLATION LOCATION

Locate pump as close to pool/spa as possible, preferably in a dry, well ventilated area away from direct sunlight. It should be on a hard, level surface. Give consideration to:

1. Drainage — away from pump
2. Ventilation of pump motor
3. Access for future servicing and winterizing
4. Protection from the elements

Pumps without strainer bodies are designed for flooded suction (all suction fittings and suction piping below water level) and will not self-prime. Consequently, the pump must be installed at an elevation that is below water level when pool or spa is filled; however, if suction line valves are installed, the pump may be located above the water level since the valve can be closed for priming. Keep vertical distance to a minimum if you choose to mount pump above water level.

Pumps with strainer bodies are self-priming but should be mounted as close to the water level as possible or below for ease in priming.

GENERAL PLUMBING

FOR SOLVENT WELD CONNECTIONS

Rigid or flexible PVC pipe can be used. Pipe ends should be clean and free of any flash caused by the cutting operation. Be sure that the proper adhesive is used on the type of pipe specified.

Recommended Adhesives — These are examples only and are not intended to restrict brands.

PVC-PVC Joint

Uni-Weld Pool-Tite 2000
Suregard Flex 20
IPS Weld-On 705

PVC-ABS Joint

Uni-Weld Pool-Tite 2000
Suregard Weld-All No. 5
IPS Weld-On 794

Note: A primer will assure that adhesive joints are superior. Suregard P-3000 has a purple tracer to qualify in areas where codes specify a primer must be used.

Caution: We recommend that you consider climatic conditions when applying adhesives. Certain atmospheric situations, such as high moisture content, make the adhesive action of certain glues less effective. Check the manufacturer's instructions.

FOR THREADED CONNECTIONS

Use only Teflon tape or equivalent on threaded plumbing connections. Other pipe compounds may damage threads. We do not recommend the use of silicone or petroleum based compounds. **DO NOT OVERTIGHTEN—HAND TIGHTEN PLUS ½ TURN IS SUFFICIENT.**

PUMP PLUMBING

Suction pipe should be as large or larger than discharge pipe. Avoid using a suction pipe smaller than pump connection.

Keep the piping as straight and short as possible, and of suitable size. Avoid connecting an elbow directly into the pump inlet (use a length of straight pipe to allow a proper entry for the water). Arrange horizontal runs to slope upward to the pump to prevent high spots that could form air pockets. Support the piping independently so that it places no strain on the pump. Keep as much of the suction line as possible below the water level to reduce priming time. Install valves and unions in the pump suction and return lines to facilitate servicing. Valves are recommended for throttling the pump discharge. The valves are essential for pump maintenance if the system is installed below deck level. Suction valves are essential for priming all pumps without strainer bodies installed above water level. Pumps with strainer bodies are self-priming, nevertheless, we recommend the use of a check valve in the suction pipe at or below the water level if the suction lift is more than 5 feet or if the dry suction is more than 10 feet long. Keep the valve in the suction line fully open during operation.

ELECTRICAL DATA

Refer to information on motor nameplate for electrical service data. All motors should have fused disconnect switch or circuit breaker. Be sure wire size is sufficient for pump HP and distance from power source. Wiring should be done in accordance with applicable codes by a competent electrician.

Single phase motors through 3 HP have built-in thermal overload protection. Motors are normally connected at the factory for 115 volts on ½ and ¾ HP and 230 volts on 1 HP and larger. Two speed motors are 230 volts only.

Three phase motors require a magnetic starter in addition to the fused disconnect switch. Apply power momentarily to verify that motor rotation agrees with the arrow on the pump bracket. (Rotation can be readily observed by removing the small cap covering the end of the motor shaft.)

PUMP START UP

For pumps located above water, prime by removing strainer cover and filling strainer body with water. Pumps

located below water level will self-prime if all piping is also below water level. After pump has been primed energize motor and open all suction and discharge line valves. It may take some time for pump to remove air from the suction lines. If no flow is observed in five minutes stop the motor and reprime. If the pump fails to operate check for air leaks. Refer to Trouble Shooting section.

After about 10 minutes of operation, check the return fittings for air bubbles. A continuous flow of air indicates leaks in the suction line. Locate and correct any leaks immediately.

CONTROLLING THE OUTPUT

Keep the gate valve in the suction line fully open during operation. Should it be necessary to control the output, use a valve in the return line.

Caution: Do not retighten strainer Ring-Lok during operation.

Caution: Do not operate pump with closed suction or discharge valves.

TWO-SPEED PUMPS

Two-speed models are recommended in a swimming pool when high speed is needed for maximum filtration at peak periods and whenever turbidity levels are high. At other times, switch to low speed. For backwashing and vacuuming, high speed is required.

In spas and hot tubs, use high speed to attain full performance in the hydro-therapy mode. At other times, such as filter/heat cycle mode, use low speed. Low speed provides sufficient flow to activate most spa heaters and provides sufficient flow for filtration.

In jetted tubs, use high speed to attain full performance in the hydro-therapy mode and use low speed for desired low flow conditions.

NOTE: Two-speed pumps must be in high speed mode to prime.

WINTERIZING

Consult your dealer for advice on winterizing your equipment if freezing temperatures occur in your locality. His knowledge of your equipment makes him the best qualified source of information. Follow his recommendations, and if these include draining the filter system proceed as follows:

1. If your system does not contain a filter, proceed to step 2.
 - A. For sand filters: BACKWASH for 3 to 5 minutes and then set dial valve to WINTERIZE position.
 - B. For cartridge filters: Clean the filter element and store in dry area.
2. Drain system by loosening drain plugs (drain plug will drain without completely removing plug from unit) and/or removing pipe caps.

WATER CHEMISTRY

A proper and consistent use of chemicals is necessary to maintain clean, sanitary water, prevent a spread of germ infection and control the growth of algae which can spoil the appearance and enjoyment of your pool or spa.

Chlorine is the most commonly used chemical to provide clean, sanitary water. Either dry or liquid chlorine (calcium or sodium hypochlorite) can be used which should be added daily as it is dissipated by dirt and germs as well as by the sun and the wind.

It is also important that the correct level of acidity or alkalinity of the pool water be maintained. This is the pH of your pool with pH 7.0 being neutral. Readings above pH 7.0 are alkaline and readings below are acid. A desirable range is .7.2 to 7.4.

PUMP MAINTENANCE

1. Motors are self-lubricating—no lubrication required.
2. Clean Hair & Lint Strainer if you have a strainer body pump.
3. Visually inspect motor for blockage of air vents on motor shell. Remove any debris after shutting off breaker.
4. Shaft seals may become worn and must be replaced if leakage is observed.

TROUBLE SHOOTING

MOTOR DOES NOT START

1. Disconnect switch or circuit breaker in OFF position
2. Fuses blown or thermal overload open
3. Locked motor shaft
4. Motor windings burned out
5. Defective starting switch inside single-phase motor
6. Disconnected or defective wiring
7. Low voltage

MOTOR DOES NOT REACH FULL SPEED

1. Low voltage
2. 2 speed model set on low speed
3. Motor windings connected for wrong voltage on dual voltage model

MOTOR OVERHEATS (protector trips)

1. Low voltage
2. Motor windings connected for wrong voltage on dual voltage model
3. Inadequate ventilation

PUMP DELIVERS NO WATER

1. Pump is not primed

2. Closed valve in suction or discharge line

3. Leakage of air into suction system
4. Impeller clogged

LOW PUMP CAPACITY

1. Valve in suction or discharge line partly closed
2. Suction or discharge line partly plugged
3. Suction or discharge line too small
4. Pump running at reduced speed (see above)
5. Plugged basket in skimmer or hair and lint strainer
6. Dirty filter
7. Impeller clogged
8. Wrong rotation (3 phase only)

LOW PUMP PRESSURE

1. Pump running at reduced speed (see above)
2. Wrong rotation (three phase models only)
3. Discharge valve or inlet fittings open too wide

HIGH PUMP PRESSURE

1. Discharge valve or inlet fittings closed too much
2. Return lines too small
3. Dirty filter

CLEANING HAIR AND LINT STRAINER

Switch off the power. Close the valves in the suction and return line. Unscrew strainer Ring-Lok counter-clockwise and remove the strainer cover from the hair and lint strainer and lift out the strainer basket. Clean and replace the basket. Take care to seat the basket properly. Clean the O-Ring and re-lubricate with petroleum jelly if necessary. Clean O-Ring seats on the cover and strainer. Refit the cover and strainer Ring-Lok—hand-tighten only—and open the valves. Put the pump back into operation.

Caution: Do not retighten strainer Ring-Lok during operation.

SERVICE & REPAIR PARTS

Refer all service to your local dealer as his knowledge of your equipment makes him the best qualified source of information. Order all repair parts through your dealer. Give the following information when ordering repair parts:

1. Unit nameplate data.
2. Description of part.

NOISY PUMP AND MOTOR

1. Plugged basket in skimmer or hair in lint strainer.
2. Worn motor bearings
3. Valve in suction line partly closed
4. Suction line partly plugged
5. Vacuum hose plugged or too small
6. Pump not supported properly

LEAKAGE OF WATER AT SHAFT

1. Shaft seal requires replacement

AIR BUBBLES AT INLET FITTINGS

1. Leakage of air into suction line at connections or valve stem
2. Cover gasket of hair and lint strainer needs cleaning
3. Restriction in suction line
4. Low water level in pool

NOTE: If the recommendations in the Trouble Shooting portion of this manual do not solve your particular problem(s), please contact your local dealer for service.

LIMITED WARRANTY

Jacuzzi Bros. Division (JBD) warrants its new products to be free from defects in workmanship and material for a period of 12 months from the date of installation. JBD's warranty obligation with regard to equipment not of its own manufacture is limited to the warranty actually extended to you by its supplier. Performance of equipment is further warranted to be in accordance with stated ratings when properly installed under normal conditions of operation.

This warranty extends only to the original retail purchaser and only during the time in which the original retail purchaser occupies the site where the product was originally installed.

Requests for service under this warranty shall be made by contacting the installing JBD dealer (point of purchase) as soon as possible after the discovery of any alleged defect. JBD will subsequently take corrective action as promptly as reasonably possible.

JBD at its discretion may replace or repair any product that fails under this warranty after inspection by an authorized company representative after JBD has received the product at our factory. Replacement or repair cannot be made until after the product is inspected. All charges or expenses including freight to and from the factory, removal and reinstallation of the product, or installation of a replacement product are the responsibility of the purchaser.

THIS WARRANTY SUPERSEDES ANY WARRANTY NOT DATED OR BEARING AN EARLIER DATE. ANY IMPLIED WARRANTIES WHICH THE PURCHASER MAY HAVE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. **IN NO EVENT SHALL JBD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

This warranty does not apply to any product which has been subjected to negligence, alteration, accident, abuse, misuse, improper installation, vandalism, civil disturbances, or acts of God. The only warranties authorized by JBD are those set forth herein. JBD does not authorize other persons to extend any warranties with respect to its products, nor will JBD assume liability for any unauthorized warranties made in connection with the sale of its products.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.



Jacuzzi's Growing Family of Cartridge Filters. A Turn for the Better.

Easy access means simple service with Jacuzzi RING-LOK™ Cartridge Filters. With a twist of the RING-LOK™ you can easily inspect and clean any of our CFR filters. No bolts. No clamps. No tools.

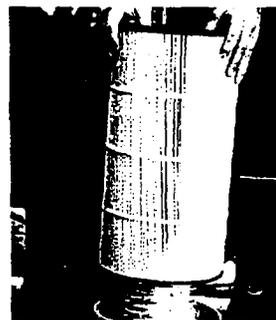
And now Jacuzzi offers four swimming pool filter sizes—from 50 to 150 square feet. They all offer a turn for the better in service:



1. A simple twist of the threaded RING-LOK™ gives access to the filter element.



2. Convenient Thandles make taking the filter out a snap.



3. For easy cleaning, the filter element is removable from the patented dirt catcher where large debris is trapped.



4. The cordless filter element can be sprayed clean with an ordinary garden hose—from the inside out for more thorough cleaning.

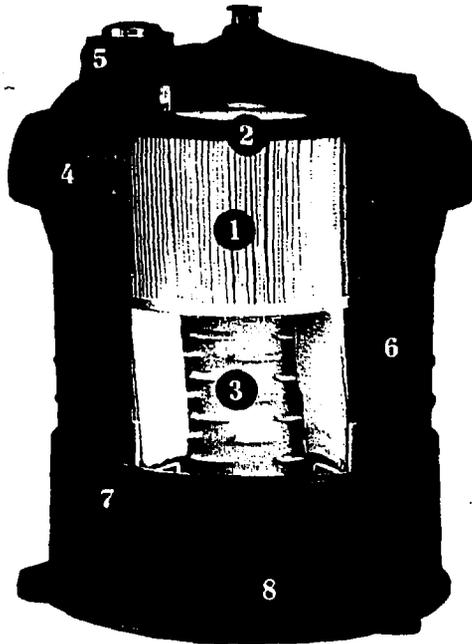
APR 1987
600 E. Golf Course Rd.
Los Angeles, CA
(800) 777-7777



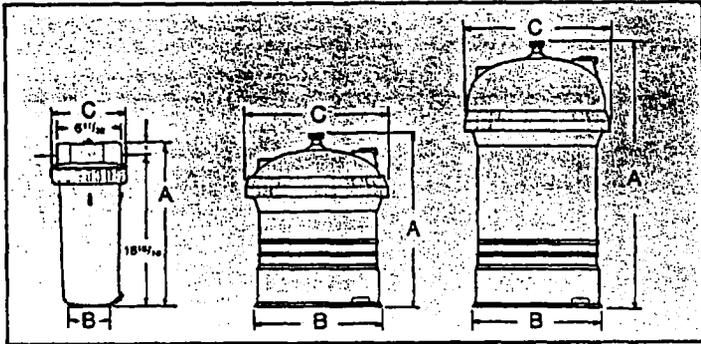
Ring-Lok Cartridge Filters by

JACUZZI

1. **Heavy-duty Polyester Filter Element** won't collapse under high pressure and is easily cleaned with a garden hose. The coreless element allows you to clean it from the inside out for a more thorough cleaning.
2. **Automatic Air Relief** automatically bleeds trapped air, eliminating the need for manual bleeding.
3. **Patented Dirt Catcher** prevents debris from falling into the tank when the element is removed. The convenient T-handles make cartridge removal easy.
4. **Jacuzzi Ring-Lok™** allows easy access with a simple twist. No bolts. No clamps. No tools.
5. **Gearless Pressure Gauge** displays operating pressure and features an adjust-

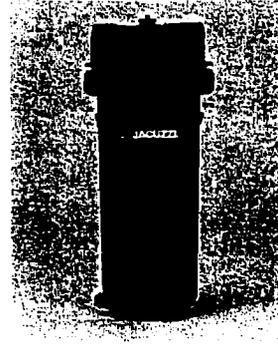


- able cycle indicator, letting you know when to clean the filter.
6. **Jacuzzi's Criptinite™ Thermoplastic Construction** is heat-tolerant and resists corrosion due to weather and chemicals.
 7. **Bottom Inlet and Outlet** makes installation easy. 50 sq. ft., 75 sq. ft., 100 sq. ft. and 150 sq. ft. units have 2" NPT connections.
 8. **Captive Drain Plug** threads directly into the body wall but stays secured during draining or can be removed with a slight tug.
 9. **Low Profile** allows installation under decks, steps and other tight fits where competitors' filters won't fit.



■ **Dimensions (In Inches)**

Model	A	B	C
CFR-25	17 ^{15/16}	4	7 ^{9/16}
CFR-50	17	12 ^{1/4}	13 ^{5/8}
CFR-75	22 ^{1/8}	12 ^{1/8}	13 ^{5/8}
CFR-100	26 ^{3/4}	12 ^{1/4}	13 ^{5/8}
CFR-150	31 ^{3/4}	12 ^{1/8}	13 ^{5/8}



■ The 25 sq. ft. in-line RING-LOK™ Cartridge Filter is ideal for spa and hot tub applications. It features a coreless element for easy cleaning and optimum flow rates. Inlet/outlet available with 1 1/2" slip or threaded connections.



■ Pump and Filter Mounting Kits provide a noncorrosive molded foundation pre-drilled for any Jacuzzi pump and freestanding filter.

■ **CFR Performance**

Model No.	Recommended Flow Rates		Total Gallons Circulated			
	* GPM Commercial	GPM Residential	6 Hours		8 Hours	
			Commercial	Residential	Commercial	Residential
CFR-25	9.4	25	—	—	—	—
CFR-50	18.75	50	6750	18000	9000	24000
CFR-75	28.13	75	10127	27000	13502	36000
CFR-100	37.50	100	13500	36000	18000	48000
CFR-150	56.25	150	20250	54000	27000	72000

* .375 GPM/FT² based on NSF standards for commercial pool applications.



JACUZZI

SOLUTIONS THROUGH INNOVATION™

Jacuzzi Bros. □ 12401 Interstate 30
 P.O. Box 8903 □ Little Rock, AR 72219-8903
 501-455-1234 □ FAX 1-800-662-6044
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Outside U.S., call:
 Jacuzzi Do Brasil: 011-55-409-1711
 Jacuzzi Canada: 416-675-3333
 Jacuzzi Chile: 011-56-2-577-5708
 Jacuzzi Europe (Italy): 011-39-434-85-141



High Pressure to Filter and Clean.

The Magnum pump set the standard for easy service and now we're setting the standard for high pressure performance. Our new High Head Magnum has the pressure to filter and drive a pool cleaning system with **NO SECOND PUMP OR BOOSTER NEEDED.**

10 Second Access.

When you're paid by the job, not by the hour, time is money and you don't need anything to slow you down. By incorporating our exclusive RING-LOK™ system into the High Head Magnum, service is a snap. **YOUR HANDS ARE THE ONLY TOOLS YOU NEED.**



1. You have easy access to the see-through cover and strainer basket using only your hands. A simple twist removes the RING-LOK™.



2. Simply remove the basket for easy cleaning and removal of debris.



3. The motor RING-LOK™ gives you easy access to all serviceable components by simply unscrewing the threaded ring.

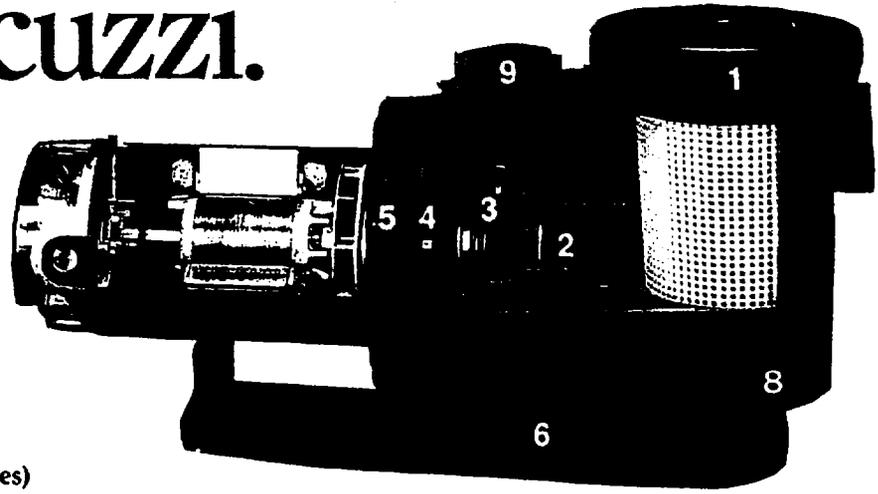


4. The motor assembly pulls away easily. No tools are needed.

High Head Magnum Pumps by

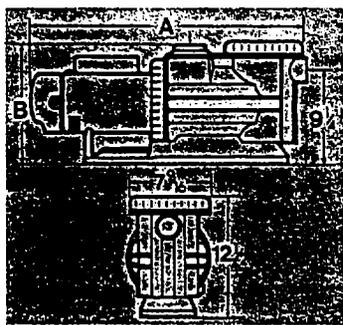
JACUZZI.

The High Head Magnum by Jacuzzi.

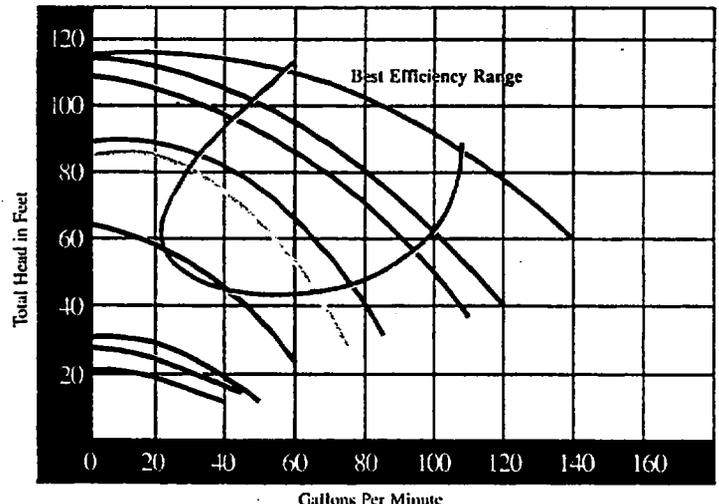


■ Dimensions (In Inches)

MODEL NUMBER	H.P.	"A"	"B"	SUCT./ DICH. PIPING
M500-H	1/2	22	11 1/2	1 1/2 NPT
M750-H	3/4	23	11 1/2	1 1/2 NPT
M1000-H	1	24	11 1/2	1 1/2 NPT
EM1500-H	1 1/2	24	12	2 NPT
EM2000-H	2	24	12	2 NPT
EM3000-H	3	25	12	2 NPT



■ Magnum Performance Curves



- EM3000-H, M3000-H3
- EM2000-H, MT2000-H, M2000-H3
- EM1500-H, MT1500-H, M1500-H3, UEM2000-H, UMT2000-H
- M1000-H, MT1000-H, M1000-H3, UM1500-H, UMT1500-H
- M750-H, M750-H3, UM1000-H, UMT1000-H
- M500-H, M500-H3, UM750-H

*H3 designation indicates three phase motor unit.

1. **Exclusive Strainer Ring-Lok™** gives you and your customers quick and easy access to the 180 cubic-inch strainer using only your hands, no wrench required. The see-through cover allows for visual inspection and provides positive sealing.
2. **Patented Floating-Eye Seal** reduces recirculation and insures maximum flow and efficiency.
3. **New Impeller/Diffuser** design for high pressure performance.
4. **Patented Air-Cooled Heat Sink** dissipates heat providing extended shaft-seal life and allows the pump to run-dry, without the use of exotic seals.
5. **Exclusive Motor Ring-Lok™** allows access to the impeller, diffuser, seal and motor assembly, without disturbing the plumbing, by simply unscrewing the threaded ring.
6. **Corrosion-Proof Base** provides continual stress-free support for pump and plumbing. This unique design continues to support pump body and plumbing if service is ever required.
7. **Unique Thumbscrew Drain Plugs** remove easily for winterizing. No wrench required.
8. **Jacuzzi's Criptinite Thermoplastic Construction** throughout is heat tolerant and resists corrosion due to weather and chemicals.
9. 1/2 through 1 horsepower are 1 1/2" NPT suction and discharge. 1 1/2 through 3 horsepower are 2" NPT suction and discharge.



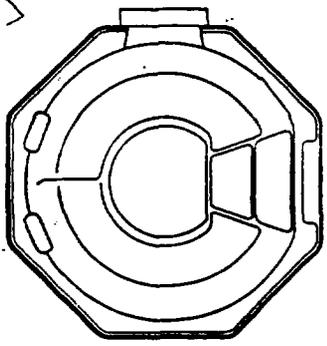
JACUZZI®

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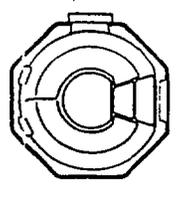
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49

Granville SW-302 R
78" x 78" x 33"

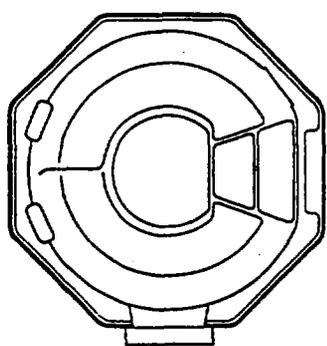


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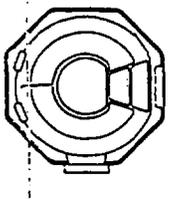


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Granville SW-302 L
78" x 78" x 33"

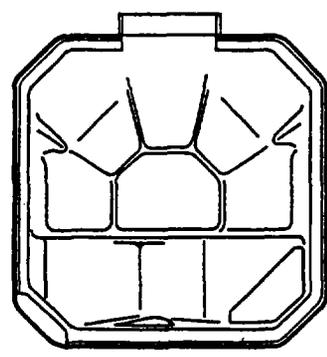


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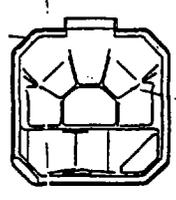


SCALE: 1/8" = 1'

Chelsea SW-301
78" x 78" x 32"



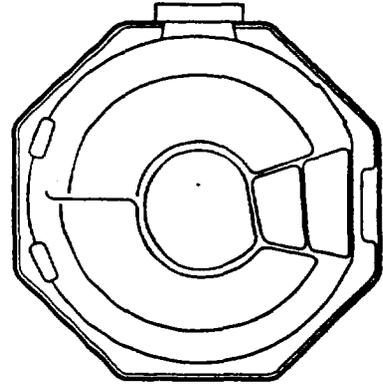
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SCALE: 1/8" = 1'

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5-2-00 USJ 5

Delemere SW-304 R
90" x 90" x 34"

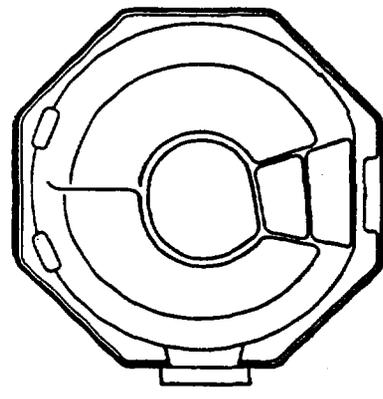


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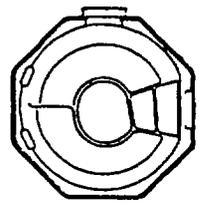


We Made It Comfortable...
You Make It Exciting.

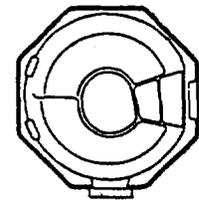
Delemere SW-304 L
90" x 90" x 34"



SCALE: 1/4" = 1'



SCALE: 1/8" = 1'



SCALE: 1/8" = 1'

BAKER MANUFACTURING CORP. • 4300-D L. B. Mcleod Rd. • Orlando, Florida 32811
Manufacturers of: Natural Whirlpool Baths • Spillway Spas • Natural Spas • Tel. (407) 649-3371 Fax (407) 246-0471

CALLS FOR SERVICE
INCIDENT NO: 9417326 04/08/94
CASE NO'S: / / /
DISPOSITION: C1-ASSISTANCE RENDERED ROLL: BATCH/FRAME:

CREATED BY: 1869
UPDATED BY: 1869

DATE: 04/08/94
DATE: 04/08/94

940627CAA1585

940627CAA1585 EXHIBIT *Ⓢ*

CALL TYPE CODE: 26 26-DROWNING CALL DATE: 04/08/94
PRIORITY: 2 COMPLAINT SOURCE: E-911

REPORTER NAME:
ADDRESS:
CITY/ST/ZIP: HOME PHONE:
SEX: JUVENILE (Y/N): BUS. PHONE:

DISPATCHER: 0735 ZAY, CINDA, COMMUNICATION
DISPATCHED PLACE:
ADDRESS:
CITY/ST/ZIP: PERMIT NO:
INTERSECTING STREET:
DISTRICT: BEAT: SZC SRA: JURISDICTION: CCSOCITRUS COUNTY S

UNITS ASSIGNED: 0165 / 0315 / 0153 / 0115 DISPOSITION: C1 REPORT (Y/N): N
TIME RECEIVED: 1328 DISPATCHED: 1330 ARRIVED: 1336 CLEARED: 1350

10 YEAR OLD FEM TRAPPED UNDERWATER IN SPA MOTOR IS NOW OUT AND
BREATHING BUT PARTIALLY
CONCIOUS GRID 34 R 12

design appears
to be one that
would be less of
a problem
similar to
those that
designers

If 10-6900 is updated
design - why wasn't
10-6200 updated
also? Are the two
interchangeable?

rept. two
type. 4/19

FDI 940627CRA 1585
Why the fire incident in
-near
-FP
s/p - memo. to B. Carter
+ Ed. Marguato 9:30 am