



Pool Power Pak® I - Program One™

UL Models 0-1063-010, 0-1064-010,
0-1065-010, 0-1066-010

NEC/UL Models 0-1063-016, 0-1064-016,
0-1065-016, 0-1066-016

Owner's Guide



Congratulations. You've wisely invested in a new dimension in filtration excellence – the **Pool Power Pak® I Program One™**, a fully programmable pump unit by Doughboy. This unique and versatile pump combines sophisticated technology with easy operation to insure the luxury of programming multiple filter cycles in advance. In addition, because of the ease of varying your program times, you not only benefit by conserving energy during the day, but will also have more efficient filter cycles. Just think, no more worries about when to run your pump. Once programmed, **Pool Power Pak® I Program One™** does the work for you, even when you're away from home. That means more time to enjoy your pool, compliments of Doughboy – the world's leading manufacturer of above-ground swimming pools.

This extra-ordinary pump is ideal for conserving energy because the program times are based specifically on your individual needs. For more effective energy conservation*, Doughboy recommends programming the unit for morning and evening cycles consisting of approximately four hours each in order to reduce usage during peak electrical hours.

*Remember, off-peak hours often have reduced rates which may result in lower electric bills.

In addition, morning and evening filter cycles will also provide more efficient filtering action by extending the backwashing intervals; the time between the filter cleanings. Efficiency is enhanced when the morning filter cycle is completed and the filter media relaxes inside the filter tank. This way, when the evening filter cycle begins, the filter media is regenerated which results in a cleaner and more productive filtering area. For this reason, less frequent backwashing is necessary to keep your pool clean.

PREPARATION

IMPORTANT SAFETY INSTRUCTIONS

FOR ALL MODELS:

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 the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

3. WARNING: Risk of electric shock. Connect only to a grounding type receptacle protected by a Ground Fault Interrupter (GFCI).

Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

4. Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.

5. WARNING: To reduce the risk of electric shock, replace damaged cord immediately.

6. WARNING: To reduce the risk of electric shock, do not use an extension cord to connect unit to the electrical supply; provide a properly located outlet.

FOR UL MODELS ONLY:

0-1063-010, 0-1064-010

0-1065-010, 0-1066-010

7. CAUTION: This pump is for use with storable pools only. Do not use with permanently installed pools. A storable pool is constructed so 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.

FOR NEC/UL MODELS ONLY:

0-1063-016, 0-1064-016

0-1065-016, 0-1066-016

8. CAUTION: 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.

FOR ALL MODELS:

9. SAVE THESE INSTRUCTIONS.

ELECTRICAL SOURCE

FOR UL MODELS ONLY:

0-1063-010, 0-1064-010

0-1065-010, 0-1066-010

Your pump is supplied with a 25 foot, 3-wire electrical cord and a 3-pronged plug. The pump is double insulated and grounded. The pump electrical cord must be connected to a grounded, 3-wire, 115 VAC electrical receptacle.

The pump should be connected to a receptacle on a dedicated circuit protected by a 20 AMP circuit breaker.

DO NOT use a grounding adaptor.

The receptacle must be protected by a Ground Fault Circuit Interrupter (GFCI) in accordance with Article 680-31 of the National Electrical Code (NEC), (Section 68-204 of the Canadian Electrical Code (CSA) and local codes or ordinances. For runs greater than 25 feet, consult your local licensed electrical contractor.

FOR NEC/UL MODELS ONLY:

0-1063-016, 0-1064-016

0-1065-016, 0-1066-016

Your pump is supplied with a 3-foot, 3-wire electrical cord and a 3-prong flanged, twist-lock plug.

The pump electrical cord must be connected to a single twist lock, grounding type receptacle that is located a minimum of 5 feet from the inside pool wall.

A qualified electrical contractor must install this receptacle in accordance with Article 680-6 of the National Electrical Code (NEC). A Ground Fault Interrupter (GFCI) must be used. An ON/OFF Switch must be installed at the receptacle.

Use a Hubbell No. 2310 Receptacle, 20 AMP 125 Volt A.C. or an equivalent receptacle that meets NEMA Configuration L5-20R.

This pump is double insulated and grounded. Dead metal parts are not in contact with pool water.

CAUTION

1. **DO NOT** install the pump on a deck. It could fall into the water, causing severe electrical shock. Do not install on any surface at, above, or slightly below the top rail of the pool.
2. **DO NOT** allow children or adults to climb, sit, or stand on the pump unit. They could easily fall. Position the filter and pump approximately 4 feet from the pool wall so they may not be used as steps by children.
3. Always keep the water level in your pool between the water level markers on the skimmer face plate. If pump is run with water level too low, the pump seal may overheat and cause permanent damage to the pump.

4. Your Pool Power Pak must sit either in an optional filter/pump base, on a patio block, or on any firm surface that slightly elevates the pump off the ground. This keeps water away from the motor and prevents the vents of the Power Pak from becoming blocked, which could cause the motor to overheat.

STRAINER ASSEMBLY INSTALLATION

Sequel I Plus or Silica I Plus - The Strainer Assembly is packed with the filter. Refer to your Sequel I Plus or Silica I Plus Owner's Guide to learn how to install the Strainer Assembly on the Pool Power Pak I. The male hose adaptor (1) provided with your Power Pak is not required when a Strainer Assembly is installed on the pump.

Skim Line Filter - Strainer Assembly is optional. If not used, then screw the male hose adaptor (1) into the threaded suction port of the pump volute (3) and tighten firmly. This adaptor must be installed if no Strainer Assembly is used.

INFORMATION REGARDING

POOL POWER PAK I - PROGRAM ONE™

When the Power Pak I electrical cord is plugged in for the first time, the pump may start to operate immediately. If this occurs, push the "**MANUAL**" key pad on the timer to shut pump off. Then, follow installation instructions to set timer and program pump operation.

Proper Filtration and Energy Conservation...

With **Pool Power Pak I-Program One™**, it's easy to obtain the normal 8 hours of filtration a day necessary for sparkling clear water. For efficient energy usage, Doughboy recommends two filter cycles a day: (7:30 a.m. to 11:30 a.m.) and (6:00 p.m. to 10:00 p.m.), although less filtration may ultimately be sufficient for your pool. **NOTE: If display is in direct sunlight, it will be easier to see if you shade it with your hand. Otherwise, wait until display is out of direct sunlight before reading.**

MANUAL OVERRIDE:

This key operates like an ON/OFF switch and overrides all programmable times. Please note that when **MANUAL** override is selected (for vacuuming, filter cleaning, etc.), the program cycle which is interrupted will be canceled for that cycle only. Filter cycles will resume with the next programmed setting. See Fig. 1.

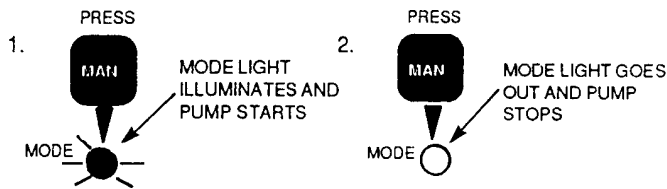


Fig. 1

Use the **DAY CONVERSION TABLE** and **MILITARY TIME TABLE** as reference guides for setting the clock and program times.

DAY CONVERSION TABLE

Monday	=	1
Tuesday	=	2
Wednesday	=	3
Thursday	=	4
Friday	=	5
Saturday	=	6
Sunday	=	7

MILITARY TIME

*MIDNIGHT	=	23:59	NOON	=	12:00
1:00AM	=	01:00	1:00PM	=	13:00
2:00AM	=	02:00	2:00PM	=	14:00
3:00AM	=	03:00	3:00PM	=	15:00
4:00AM	=	04:00	4:00PM	=	16:00
5:00AM	=	05:00	5:00PM	=	17:00
6:00AM	=	06:00	6:00PM	=	18:00
7:00AM	=	07:00	7:00PM	=	19:00
8:00AM	=	08:00	8:00PM	=	20:00
9:00AM	=	09:00	9:00PM	=	21:00
10:00AM	=	10:00	10:00PM	=	22:00
11:00AM	=	11:00	11:00PM	=	23:00

*NOTE: The pump/timer will not function properly when using 00:00 as setting for midnight.

1. TO CLEAR PROGRAMS: (From prior factory testing and/ or entry errors you might make).

Clear memory of existing programs: **1.** Press **TIME ON** followed by pressing **CLEAR**. Repeat this step eight (8) times. The display will show all bars. **2.** Press **TIME OFF** followed by pressing **CLEAR**. Repeat this step eight (8) times. The display will show all bars. See Fig. 2.

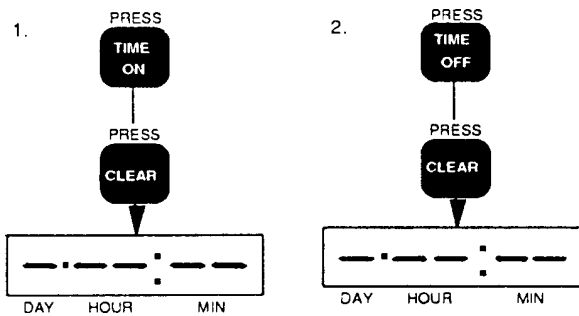


Fig. 2

2. TO SET THE CLOCK FOR TIME OF DAY:

(Refer to **DAY CONVERSION TABLE** and **MILITARY TIME TABLE** on this page for reference.) To set the clock, press **SET CLOCK** key. Next, press **DAY** key until appropriate day of the week is displayed. Press **HOUR** key until correct hour is displayed. Press **MIN** key until correct minute is displayed. Clock is now set for time of day. Example: Monday (1) 4:30 p.m. (16:30 hours). See Fig. 3.

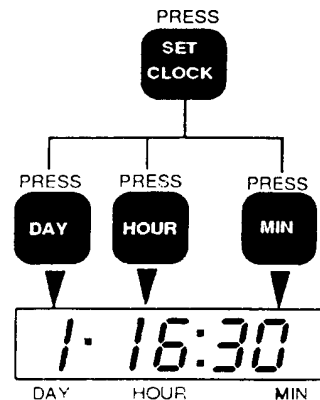


Fig. 3

NOTE: If you make an error in setting day, hour or minute, simply continue to press the appropriate key until the correct setting reappears in the display or press the "Clear" key to back up to the correct setting.

...in Five Simple Steps.

3. TO PROGRAM ENERGY EFFICIENT MORNING & EVENING "TIME ON" SETTINGS:

To program morning **TIME ON**, press **TIME ON** key. Next, press **DAY** key, (Note: disregard all other numbers and letters) until "E" (Everyday - Monday thru Sunday) setting is displayed. Press **HOUR** key until **07** is displayed. Press **MIN** key until **30** is displayed. Morning **TIME ON** is now programmed for **07:30** hours (7:30 a.m.). See Fig. 4.

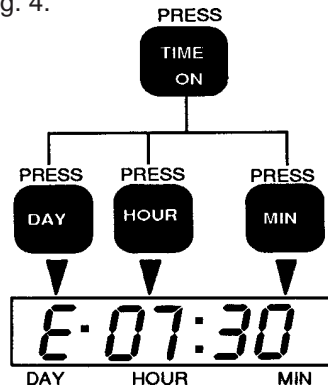


Fig. 4

Morning **TIME ON** program is now complete.

Next, to program evening **TIME ON**, press **TIME ON** key **AGAIN**. Next, press **DAY** key until "E" (Everyday - Monday through Sunday) setting is displayed. Press **HOUR** key until **18** is displayed. Press **MIN** key until **00** is displayed. Evening **TIME ON** is now programmed for **18:00** hours (6:00 p.m.). See Fig. 5.

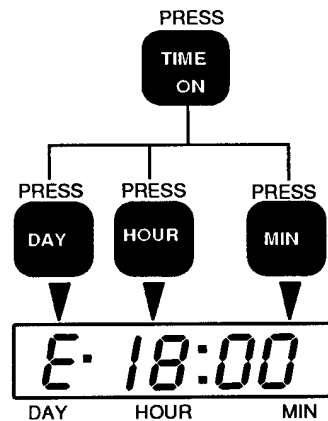


Fig. 5

Evening **TIME ON** program is now complete.

4. TO PROGRAM ENERGY EFFICIENT MORNING & EVENING "TIME OFF" SETTINGS:

To program morning **TIME OFF**, press **TIME OFF** key. Next, press **DAY** key, (Note: disregard all other numbers and letters) until "E" (Everyday - Monday thru Sunday) setting is displayed. Press **HOUR** key until **11** is displayed. Press **MIN** key until **30** is displayed. Morning **TIME OFF** is now programmed for **11:30** hours (11:30 a.m.). See Fig. 6.

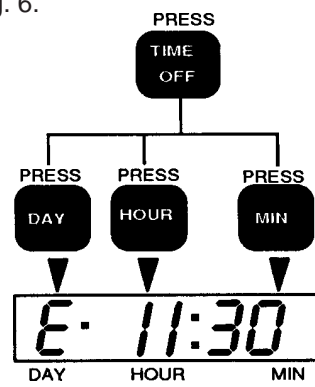


Fig. 6

Morning **TIME OFF** program is now complete.

Next, to program evening **TIME OFF**, press **TIME OFF** key **AGAIN**. Next, press **DAY** key until "E" (Everyday - Monday through Sunday) setting is displayed. Press **HOUR** key until **22** is displayed. Press **MIN** key until **00** is displayed. Evening **TIME OFF** is now programmed for **22:00** hours (10:00 p.m.). See Fig. 7.

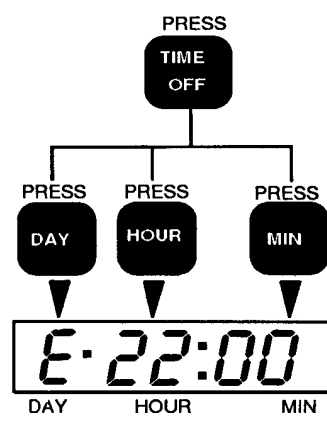


Fig. 7

Evening **TIME OFF** program is now complete.

5. AFTER PROGRAMMING:

Upon completion of setting your program times, press **SET CLOCK**. The day and time will appear on the display and your Program One unit is now programmed for proper filtration and energy conservation.

Note: Other programming options to be discussed later in this guide.

Your pool may not require the full 8 hours of filtration recommended for pool clarity. If so, you may want to reduce your filtration times. Filtration reductions should be made in 1/2 hour increments per morning and evening program settings.

If you find it necessary to increase filtration times, Doughboy recommends that filter cycles should be increased in 1/2 hour increments only. In addition, make sure any filtration time increases occur before 11:30 a.m. and/or after 6 p.m. in order to **avoid peak electrical hours and conserve energy**.

ALTERNATIVE PROGRAM OPTION

Although Doughboy strongly recommends the morning and evening filter cycles for energy conservation (see pages 4 and 5), **Pool Power Pak I - Program One™** is designed to provide an alternative program option based on your filtration needs. This alternate program is explained below. Note: excessive filter cycles per day could increase energy consumption which may lead to higher electric bills and possible motor wear. Use the tables on page 7 as reference for setting clock and program times. The display will flash until any key is depressed. If the display is in direct sunlight, it is easier to see if you shade it with your hand.

If you use your pool more on weekends than during the week, you may wish to vary your filter cycles for weekend use only. The following program allows you to program the same cycles Monday through Friday and vary the cycles on the weekend.

TO PROGRAM THE WEEKDAYS (MON. THROUGH FRI.) FOR THE SAME CYCLE AND VARY THE CYCLES ON THE WEEKENDS

1. Clear memory of any existing programs. See page 4.
2. Set clock to current time (if not already set). See page 4.
3. Determine the filter cycle starting time for **Monday through Friday**, then:
 - A) Press **TIME ON**.
 - B) Press **DAY** until "d" appears in the display.
 - C) Press **HOUR** until desired hour is shown.
 - D) Press **MIN** until desired minute is shown.Repeat this step for a second filter cycle starting time for Monday through Friday.
4. Program the filter cycle starting time for **Saturday, Day 6**:
 - A) Press **TIME ON**.
 - B) Press **DAY** until "6" is displayed.
 - C) Press **HOUR** until desired hour is shown.
 - D) Press **MIN** until desired minute is shown.Repeat this step for a second filter cycle starting time for Saturday.
5. Program the filter cycle starting time for **Sunday, Day 7**:
 - A) Follow step 4 except use a "7" in place of "6".Repeat this step for a second filter cycle starting time for Sunday.
6. Determine the filter cycle stopping time for **Monday through Friday**, then:
 - A) Press **TIME OFF**.
 - B) Press **DAY** until "d" appears in the display.
 - C) Press **HOUR** until desired hour is shown.
 - D) Press **MIN** until desired minute is shown.Repeat this step for a second filter cycle starting time for Monday through Friday.
7. Determine the filter cycle stopping time for **Saturday, Day 6**:
 - A) Press **TIME OFF**.
 - B) Press **DAY** until "6" appears in the display.
 - C) Press **HOUR** until desired hour is shown.
 - D) Press **MIN** until desired minute is shown.Repeat this step for a second filter cycle starting time for Monday through Friday.
8. Program the filter cycle stopping time for **Sunday, Day 7**:
 - A) Follow step 7 except use a "7" in place of "6". Repeat this step for a second filter cycle stopping time for Sunday.
9. Upon completion of setting your program times, press **SET CLOCK**. The current day and time will appear.

TO VERIFY TIME ON AND TIME OFF SETTINGS

1. Check **TIME ON** settings:
 - A) Press **TIME ON**. Your first TIME ON will be displayed.
 - B) Each subsequent pressing of "TIME ON" will advance the display to the next programmed TIME ON.
2. Check **TIME OFF** settings:
 - A) Press **TIME OFF**. Your first TIME OFF will be displayed.
 - B) Each subsequent pressing of "TIME OFF" will advance the display to the next programmed TIME OFF.
3. Press **SET CLOCK**. The current day and time will appear.

OPTION TABLE NO. 1
Day of Week Displayed

MONDAY = $\boxed{1}$
DAY

TUESDAY = $\boxed{2}$
DAY

WEDNESDAY = $\boxed{3}$
DAY

THURSDAY = $\boxed{4}$
DAY

FRIDAY = $\boxed{5}$
DAY

SATURDAY = $\boxed{6}$
DAY

SUNDAY = $\boxed{7}$
DAY

WEEK DAYS
(Mon.-Fri.) = \boxed{d}
DAY

EVERY DAY
(Mon.-Sun.) = \boxed{E}
DAY

MILITARY TIME TABLE NO. 2

MIDNIGHT = $\boxed{23:59}$ NOON = $\boxed{12:00}$
HOUR MIN HOUR MIN

1:00 AM = $\boxed{01:00}$ 1:00 PM = $\boxed{13:00}$
HOUR MIN HOUR MIN

2:00 AM = $\boxed{02:00}$ 2:00 PM = $\boxed{14:00}$
HOUR MIN HOUR MIN

3:00 AM = $\boxed{03:00}$ 3:00 PM = $\boxed{15:00}$
HOUR MIN HOUR MIN

4:00 AM = $\boxed{04:00}$ 4:00 PM = $\boxed{16:00}$
HOUR MIN HOUR MIN

5:00 AM = $\boxed{05:00}$ 5:00 PM = $\boxed{17:00}$
HOUR MIN HOUR MIN

6:00 AM = $\boxed{06:00}$ 6:00 PM = $\boxed{18:00}$
HOUR MIN HOUR MIN

7:00 AM = $\boxed{07:00}$ 7:00 PM = $\boxed{19:00}$
HOUR MIN HOUR MIN

8:00 AM = $\boxed{08:00}$ 8:00 PM = $\boxed{20:00}$
HOUR MIN HOUR MIN

9:00 AM = $\boxed{09:00}$ 9:00 PM = $\boxed{21:00}$
HOUR MIN HOUR MIN

10:00 AM = $\boxed{10:00}$ 10:00 PM = $\boxed{22:00}$
HOUR MIN HOUR MIN

11:00 AM = $\boxed{11:00}$ 11:00 PM = $\boxed{23:00}$
HOUR MIN HOUR MIN

**POOL POWER PAK® I - PROGRAM ONE
PARTS LIST**

**UL MODELS 0-1063-010, 0-1064-010, 0-1065-010, 0-1066-010;
NEC/UL MODELS 0-1063-016 0-1064-016, 0-1065-016, 0-1066-016**

ITEM	P/N	QTY	DESCRIPTION	ITEM	P/N	QTY	DESCRIPTION
1	340-1778	1	Male Hose Adaptor	16	348-1026	2	Rubber Strip
2	330-1016	6	#8 x 1" Phillips Screw	17	1150-1000	1	Bottom Housing Assy.(UL)
3	305-1010	1	Pump Volute		1150-1005	1	Bottom Housing Assy.(NEC)
4	308-1005	1	O-Ring Seal	18	330-1023	14	#8 x 5/8" Screw
5	1107-1143	1	Impeller Assy., 1/3 HP	19	1100-1052	1	Cord Set Assy, 25'(UL)
	1107-1142	1	Impeller Assy., 1/2 HP		1100-1108	1	Cord Set Assy, 3' (NEC)
	1107-1141	1	Impeller Assy., 3/4 HP & 1 HP	20	303-1104	1	Strain Relief Bushing (UL)
6	1128-1006	1	5/8" Pump Seal Set		303-1120	1	Strain Relief Bushing (NEC)
7	306-1002	1	Pump Seal Seat	21	1121-1550	1	Top Housing Assy.
8	306-1005	1	5/8" Pump Seal	22	330-1131	1	#10 x 3/8" Tapping Screw (NEC)
9	1128-1022	1	Pump Faceplate Assy.	23	526-1003	1	#10 Lock Washer (NEC)
10	300-1015	1	Motor, 1/3 HP	24	303-1103	1	Solderless Lug (NEC)
	300-1016	1	Motor, 1/2 HP	25	1100-1117	1	Jumper Wire
	300-1017	1	Motor, 3/4 HP	26	1100-1116	1	Jumper Wire
	300-1043	1	Motor, 1 HP	27	308-1107	1	Body Gasket
11	385-1152	2	Motor Clamp	28	1100-1394	1	Timer Module Assembly
12	321-1004	1	1/4"-20 Hex Nut	29	308-1106	1	Face Gasket
13	324-1018	1	1/4"-20 x 1" Bolt	30	340-1645	1	Timer Body
14	341-1123	1	Insulating Sleeve	31	340-1597	1	Timer Cover
15	1121-1291	1	1/3 HP Pump Assy.	32	343-1074	1	Switch Hole Cover Plug
	1121-1292	1	1/2 HP Pump Assy.	33	365-1744	1	Owner's Guide
	1121-1293	1	3/4 & 1 HP Pump Assy.	34	—	1	Warranty Card

MAINTENANCE

Make sure the pump is disconnected from the electrical source before attempting any maintenance work.

LUBRICATION:

Periodically lubricate the O-Ring under the strainer cover with a NON-PETROLEUM lubricant recommended for A.B.S., Noryl and Acrylic plastics. Consult your pool dealer for lubricant selections.

If you have any questions or require assistance, contact your Doughboy pool dealer.

IN CASE OF POWER INTERRUPTION

If a power interruption has occurred, the computer in your Power Pak I will “remember” the program you have given it. However, it will be necessary to reset the time on your Power Pak I. The clock display may or may not be flashing to let you know there was a power interruption. Simply push the “**SET CLOCK**” key pad on the timer and reset to proper day and current time of day.

NOTICE

THIS EQUIPMENT GENERATES and uses radio frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer’s instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in subpart J of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Relocate the unit with respect to the receiver
- Move the unit away from the receiver
- Plug the unit into a different outlet so that computer and receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: “How to Identify and Resolve Radio-TV Interference Problems”.

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

SERVICING SAFETY TIPS

- ALWAYS TURN “OFF”** the main power switch and the Ground Fault Circuit Interrupter (GFCI) breaker switch so power is completely off before servicing your unit.
- ALWAYS BE SURE THE GROUND UNDER YOUR FEET AND YOUR BODY IS DRY** before you touch electrical equipment. Failure to heed this warning may cause personal injury due to severe electrical shock.
- ALWAYS** have a qualified electrician service your system if electrical problems occur. This system is UL listed and must be serviced by a qualified electrician to insure that the electrical integrity is maintained. Failure to do so may cause personal injury due to severe electrical shock and may void the UL listing and warranty.
- ALWAYS** have a qualified electrician install a Ground Fault Circuit Interrupter (GFCI) breaker at the electrical service or supply panel. Follow GFCI manufacturer’s operating instructions for testing. Failure to do so may cause personal injury due to severe electrical shock.

CAUTION: To reduce the risk of electrical shock, connect only to grounding type receptacles. A Ground Fault Circuit Interrupter (GFCI) must be provided in accordance with local codes or ordinances.

CAUTION: To reduce the risk of electrical shock, use only Original Equipment Manufactured (OEM) replacement parts when servicing.



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"

doughboy[®]

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