

SIREMASTER®

Professional

Electronic Ejaculator & Probe

Owners Manual

CAUTION! READ ALL INSTRUCTIONS BEFORE TURNING ON POWER!



Designed and Manufactured in the USA by:

ICE Corporation

2700 Amherst
Manhattan, KS 66502
Ph 785-776-6423
www.ice-ks.com

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1 FEATURES

The SireMaster® *Professional* is designed with the following features to be the safest, most versatile, efficient, and easiest to use electronic ejaculator on the market today.

- Selectable Modes of Operation designed to maximize convenience, control, and productivity (select from Traditional Manual Mode, Automatic Mode, Custom Programmable Profile Mode, AutoThrob Mode, and adjustable range features).
- Advanced Safety Features implemented to protect investments in animals and equipment.
- Maintenance Features designed to prolonging the availability and service life of the product.
- Easy to use operator interface.
- Built-in advanced battery charger
- Lightweight (only 7 lbs)
- Convenient Size (approximately 7" x 10" x 5")

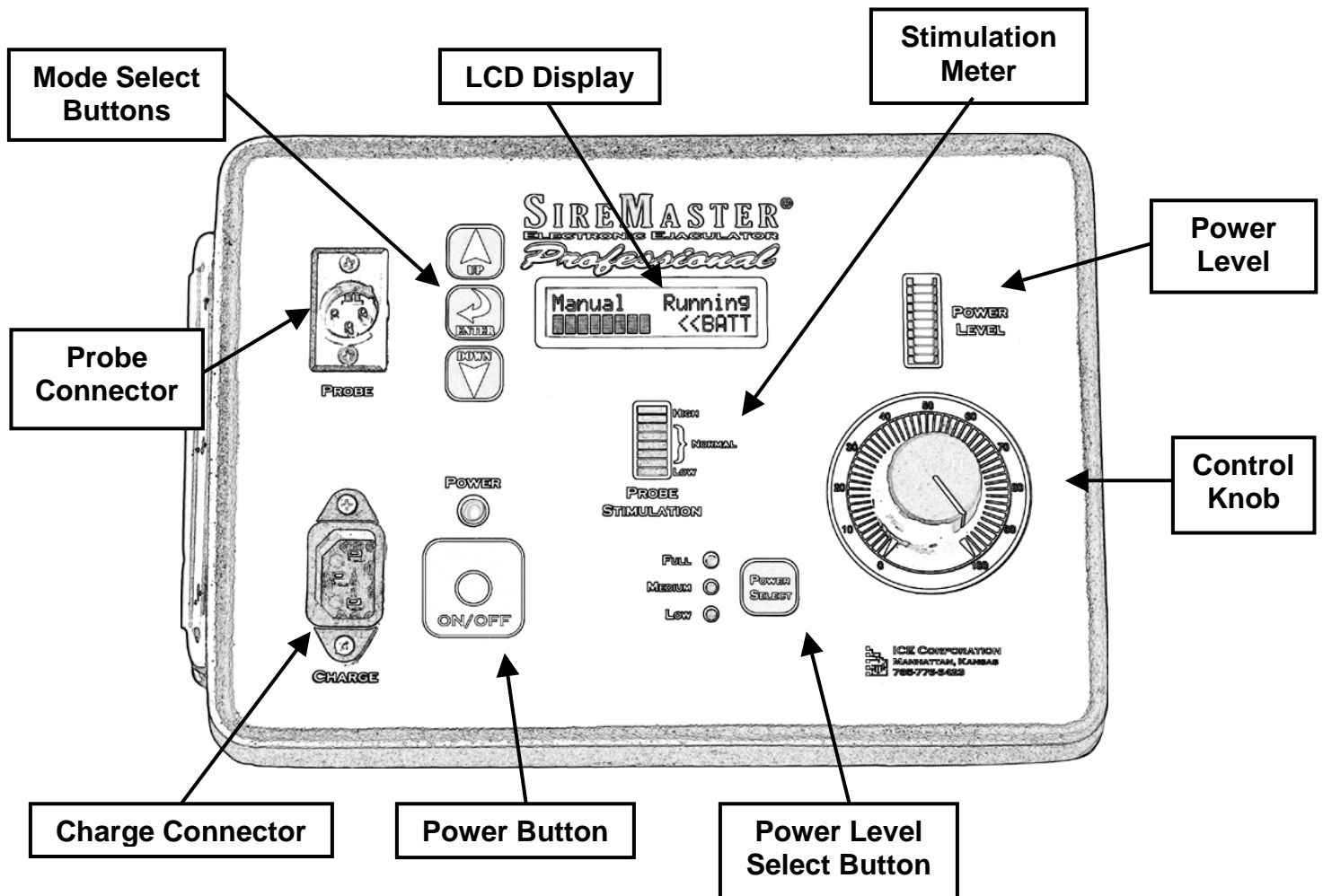


Figure 1 Overview Diagram

2 OVERVIEW

With a simple push of the Power button, the **SireMaster® Professional** powers up in *Manual Mode*. While more advance modes and features are available, the intention is to provide the simplest operation possible to the basic or casual user while also providing valuable features to the Professional user.

- The *Manual Mode* functions just like the reliable original **SireMaster®**, but with the addition of improved safety and maintenance features.

By pressing the mode select buttons, the user may easily select from a number of advanced Professional operating modes:

- In the *Automatic Mode*, the **SireMaster® Professional** automatically plays back an optimized stimulation session recorded by ICE's animal breeding consultants.
- In the exclusive *AutoTHROB® Mode*, the **SireMaster® Professional** automatically generates a continuous series of freely adjustable “throbs”, leaving the user to concentrate on finely controlling the amplitude of the throbbing signal.
- In the *User Program Mode*, the **SireMaster® Professional** automatically plays back any of up to 9 user recorded stimulation sessions.
- If for any reason the user needs to stop stimulation, this can be done at the press of a button. Additionally, the unit can easily be returned to the *Manual Mode*.

The relative power being delivered is indicated on the POWER LEVEL bar-graph. The power level at the output (probe) is controlled by turning the POWER LEVEL Control Knob. Clockwise increases the power and counterclockwise decreases the power.

In the “Manual Mode” if the Control Knob is left inactive for more than 30 seconds then the output will be deactivated and the user will be prompted to zero the Control Knob to continue stimulation. This is a safety feature to prevent unintended continuous stimulation to the animal.

The Control Knob is also internally “rate limited” to prevent sudden changes in output resulting from inadvertent jarring.

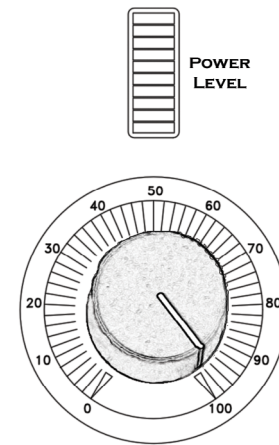


Figure 3 Power Level Knob/Meter

The “Power Select” button will scale the maximum output that can be produced by a full rotation of the Control Knob. Pressing the “Power Select” button steps the power setting between the following modes:

- Full = Full power is available by a complete rotation of the knob (this is the default setting).
- Medium = A complete rotation of the knob produces 75% of the full power rating of the unit.
- Low = A complete rotation of the knob produces 50% of the full power rating of the unit.

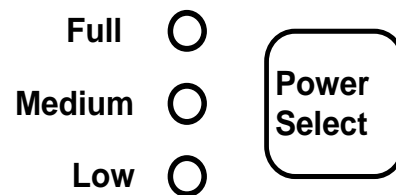


Figure 4 "Power Select" Function

The “Probe Stimulation” indicator shows whether or not the animal is receiving proper stimulation.

- If the indicator continues to read “LOW” during a session then this could indicate tarnished probe electrodes, improper seating of the probe, or a faulty probe or probe cord.
- If the indicator reads “HIGH” then this indicates either a level of stimulation to the animal in which caution should be used. The output may be shorted in some way, either by a metallic object or by excessive conductive fluids in the animal. This may also indicate a faulty probe, or a probe cord that has shorted.
- If the current level is dangerously excessive then the unit will immediately remove power from the output to protect the animal and the SireMaster. A message will be indicated on the LCD display indicating the nature of the fault and the action to be taken by the user.

Note: In certain instance this LED array will rapidly and continuously scroll from bottom to top – this is done to draw the users attention to the unit for additional action that must be taken or a change in status of the unit.

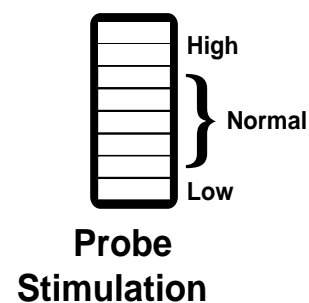


Figure 5 Probe Stimulation Feature

If the unit is left completely unattended for over 15 minutes, the unit will automatically power down to prevent draining and damaging the batteries.

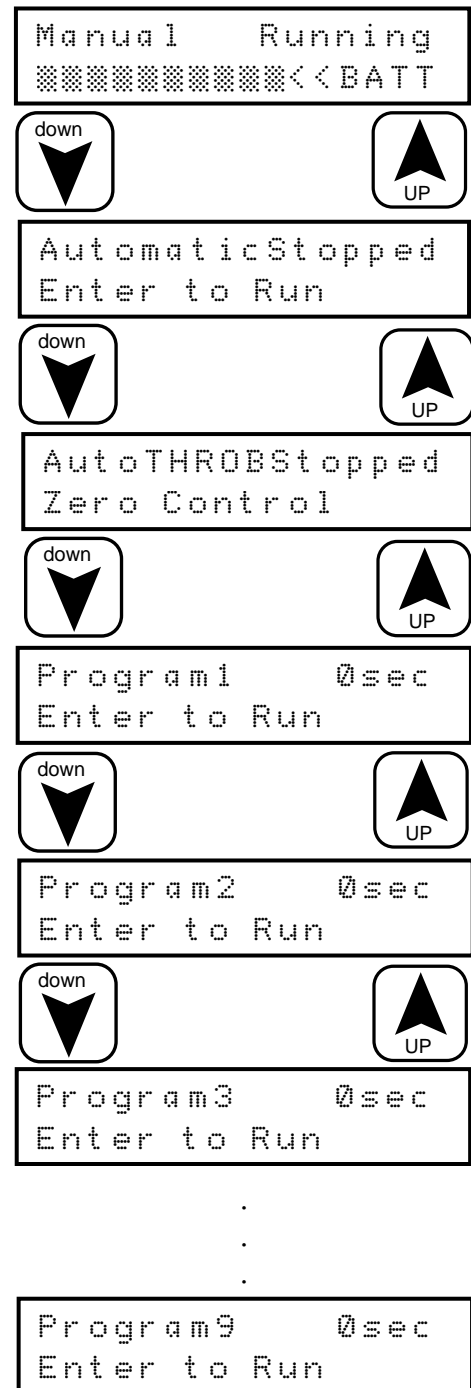
4 MODES OF OPERATION

The various features of the **SireMaster® Professional** are selected using the UP/DOWN/ENTER buttons.

When the unit is first turned on it defaults to Manual mode. Pressing the DOWN arrow button once will bring up the Automatic Mode, pressing the DOWN arrow button again will bring up the AutoTHROB Mode, and pressing the DOWN arrow button again will bring up Program1, 2, 3,...etc. as the DOWN arrow button is pressed. These mode selections and the sequence in which they appear are shown in the illustration to the right.

The UP arrow button will scroll through the operating modes in reverse order.

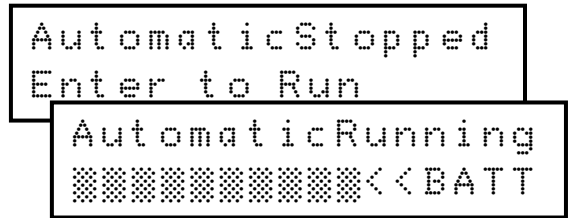
Detailed instructions for each different mode are further discussed in the following sections.



5 AUTOMATIC OPERATION

To select Automatic Mode, press the DOWN arrow to scroll through the various operating modes until “Automatic” is displayed. Press ENTER to run the

Automatic sequence. The Display will show “AutomaticRunning” and the Power Level meter will indicate the stimulus profile as it is being applied.



The Automatic profile is shown below in Figure 6 and consists of 2 stages. The 1st stage starts at low stimulation levels and gradually applies higher levels of stimulation over a period of 160 seconds. The second stage applies a full stimulation profile for an additional 160 seconds or until terminated by pressing the “Enter” button.

In Automatic Mode the Control Knob is disabled, but the POWER SELECT button can still be used to scale the output profile accordingly. All other indicators and safety features continue to operate as previously described.

If for any reason the user needs to stop stimulation in this mode, this can be done by pressing the ENTER button. Additionally, pressing an UP or DOWN button will also stop the simulation and start the selection of another mode. In this manner operation can easily be switched from Automatic to Manual.

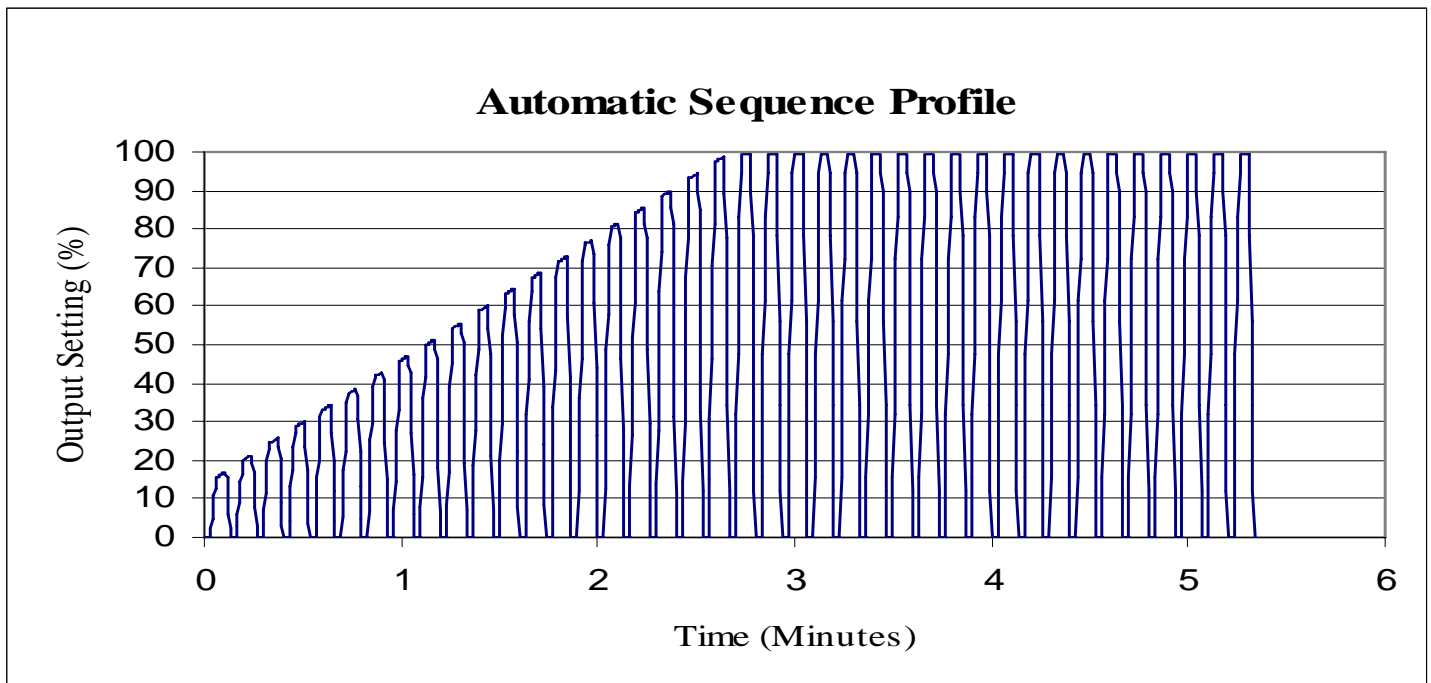


Figure 6 Automatic Sequence Profile

6 AUTOTHROB OPERATION

To select AutoTHROB Mode, press the DOWN arrow to scroll through the various operating modes until “AutoTHROB” is displayed. Once the Control Knob has been zeroed the AutoTHROB sequence will begin.

```
Automatic Stopped  
Enter to Run
```

```
Automatic Running  
██████████████████<<BATT
```

In AutoTHROB Mode the Control Knob is used to control the amplitude of a continuous series of gentle “throbbing” pulses. Each repeating “throb” pulse is 4 to 5 seconds in duration with an amplitude controlled by the setting of the control knob. The POWER SELECT button can still be used to scale the output amplitude accordingly. All other indicators and safety features continue to operate as previously described.

If for any reason the user needs to stop stimulation in this mode, this can be done by pressing the ENTER button. Additionally, pressing an UP or DOWN button will also stop the simulation and start the selection of another mode. In this manner operation can easily be switched from AutoTHROB to Manual.

```
AutoTHROB Stopped  
Zero Control
```

If the control knob is left inactive for more than 2 minutes then the AutoTHROB session will be stopped and the user will be prompted to zero the Control Knob if the intention is to continue stimulation in this mode. This is a safety feature to prevent unintended continuous AutoTHROB stimulation to the animal.

7 PROGRAM OPERATION (RECORD/PLAYBACK)

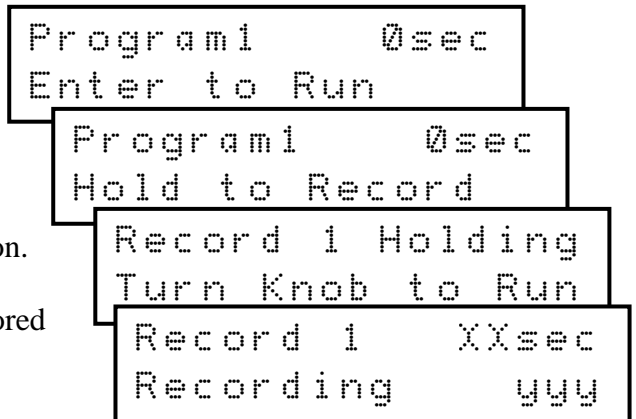
The unit can record and playback up to 9 custom sequences.

7.1 RECORD

To record a sequence, first select one of the program modes, such as “Program1”, using either the UP or DOWN buttons. The length of the selected program (in seconds) is displayed to the right of the program name. For example, if the length is “0sec” then this indicates that nothing is programmed into that sequence.

IMPORTANT NOTE: The Record command overwrites any sequence that is currently stored at a program location!

After selecting the desired program mode (in this case “Program1”), press and hold ENTER for 5 seconds until the display reads “Record 1 Holding – Turn Knob to Run”. Recording will start as soon as Control Knob movement is detected. The Control Knob can be manipulated as desired throughout the stimulation session. When the session is complete press ENTER to stop recording. This stimulation profile is now accurately stored in Program1 and can be played back at any time.



The number in the 2nd line of the display shows the total available time (in seconds) to the user for a record profile – this is shown as “yyy” on the figure to the above right. A time counter shows the elapsed time of the profile being recorded, this is shown as “XXsec” on the figure – where XX is the elapsed time in seconds.

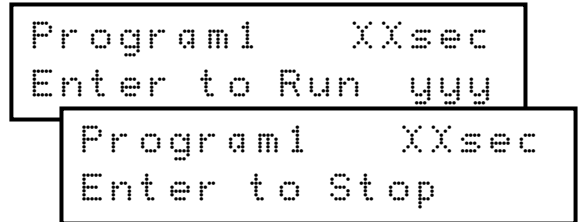
There can be a maximum of 9 custom program profiles of any duration, provided the combined time duration of all user programs does not exceed 15 minutes.

To delete any program select that program number and record over the old program.

7.2 PLAYBACK

To play back a programmed sequence, select one of the program modes, for example “Program1”.

To select “Program1” press the DOWN button to scroll through the various operating modes until “Program1” is displayed. Press ENTER to run the “Program1” sequence.



The Power Level meter will indicate the user programmed stimulus profile being applied.

A countdown timer shows the total length and time left in any programmed simulation sequences. This is indicated by “XXsec” in the example display figures shown to the above right.

In Playback Mode the Control Knob is disabled. All other indicators and safety features continue to operate as previously described.

If for any reason the user needs to stop stimulation in this mode, this can be done by pressing the ENTER button. Additionally, pressing an UP or DOWN button will also stop the simulation and start the selection of another mode. In this manner operation can easily be switched from Program to Manual.

8 ADDITIONAL FEATURES

8.1 SAFETY FEATURES

ICE Corporation's long experience in the design and manufacture of safety critical electronics is applied to the design of this product:

- The probe is continuously monitored for correct operation. Excessive voltages and current that could cause injury results in automatic shut down of the unit, with galvanic isolation of the animal from all electrical power. Diagnostic fault messages are indicated to the user.
- The probe, and therefore the animal, is galvanically isolated from any ground fault currents and line voltage leakage.
- Every effort is made to prevent sudden, unintended, or inadvertent application of power to the animal. Any function that applies electrical current to the animal requires zeroing of the Control Knob before the feature may operate.
- A Control Knob left idle, unattended, or inadvertently bumped on, will result in automatic shut down after a few seconds, with automatic indication to the user.
- Should a problem arise in the response of an animal to any automatic stimulation in the *User Program Mode* or *Automatic Mode*, the user may instantly stop the automatic stimulation at the press of a button, and if intended, continue to stimulate the animal in Manual Mode.
- The *AutoThrob Mode*, *User Program Mode* and *Automatic Mode* are time limited to prevent unintended continuous stimulation to the animal.

8.2 POWER FEATURES

- The unit may operate on 110-120 volts AC or run on the internal batteries, disconnected from any other power source.
- The user may plug the unit into 110-120 volts AC to re-charge the internal batteries with the built-in battery charger.
- The internal batteries can be almost completely recharged in a couple of hours – complete battery “top-off” can be easily obtained overnight.
- The unit's automatic battery charger prevent battery damage from overcharging -- the unit may be left plugged in and charging indefinitely without overcharge.
- The unit is internally protected from power line surges.

8.3 MAINTENANCE FEATURES

The following features improve the reliability of the unit, prolonging the availability and service life of the product:

- Electronic designs developed for ICE Corporation's avionics product improve the robustness of our veterinary products.
- The unit automatically intervenes to prevent excessive and damaging discharge of the battery.
- The unit automatically monitors the battery charge and provides the user with a battery “fuel gauge” display.

- The unit employs battery charging algorithms carefully designed to prolong battery life.
- The unit performs self-tests to inform the user of functional correctness.
- Avionic style software self-monitoring with fault message display supports troubleshooting and fault diagnosis of units in the field.
- A Probe Stimulation indicator is provided expressly to assist the user in troubleshooting probe problems (i.e., poor probe contact, probe oxidation, loose cable).

8.4 USER INTERFACE FEATURES

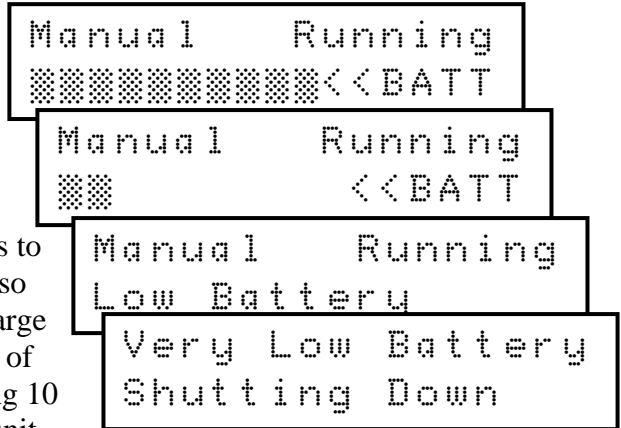
The **SireMaster® Professional** provides a great improvement in the user interface over less interactive and less informative systems:

- The Liquid Crystal Display (LCD) provides a versatile means of indication. The user may easily read the detailed status of the unit. Instructions, diagnostics, and error messages are easily available.
- Two LED bargraph arrays provide continuous and instant indication of voltage and current applied to the animal.
- A third set of LED indicators provide continuous and instant indication of the power range setting.
- A Power LED indicates whether the unit is turned on.
- Push buttons provide Power On/Off, Power Range Control, and Menu Selection with feedback on the indicators listed above.

9 BATTERY CARE

9.1 BATTERY STATUS INDICATOR

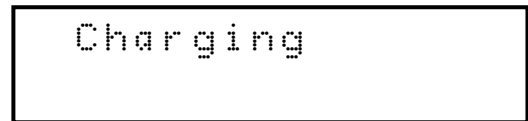
During operation the second line of the LCD display shows the amount of available battery life. When the battery is fully charged all 10 bars are indicated. As battery charge decreases fewer bars will be indicated. If the unit is operated until no bars are visible then the LCD display will show a “Low Battery” message and the unit will shut down shortly thereafter. This feature is to keep the battery from becoming excessively discharged so that it is able to maintain its capacity for numerous recharge cycles. Each bar roughly indicates 45 minutes to 1 hour of continuous operation. Thus, a fully charged unit showing 10 bars can be expected to last roughly 8 to 10 hours. The unit will maintain full operational performance without degradation over the full range of indicated battery charge.



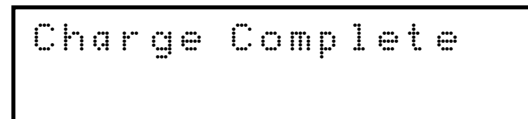
CAUTION: Battery operating temperature is -15°C to 50°C (5°F to 122°F) and battery charging temperature range is -20°C to 60°C (-4°F to 140°F). Ejaculator storage, operation, and charging should not be performed outside these temperature ranges.

9.2 BATTERY CHARGING

Charging the batteries is accomplished by plugging the supplied recharging cord first into the **SireMaster® Professional**, and then into a standard AC receptacle. The unit will immediately show a charging message.



The charger first applies a “bulk charge” to the battery. This is designed to quickly charge the batteries to about 90% of capacity in a few hours (3 to 6 hours depending on how discharged the batteries are). After the bulk charge is complete the unit automatically switches over to a “float/standby” charging mode and displays “Charge Complete”. This “tops off” the battery charge and maintains the battery in a fully charged condition. While the bulk charge cycle can quickly charge the batteries to about 90% capacity, it is recommended that the charger remain on overnight to fully charge the batteries to 100% capacity. However, if necessary, the unit can be used immediately after the bulk charging cycle is complete.



The batteries are maintenance free and the charger is adjusted so that overcharging is impossible, even if the charger cord is left plugged in for extended periods of time.

Prior to storage the batteries should be charged overnight or for a minimum of 8 hours. Prolonged storage of the unit in a discharged state greatly reduces the useful life of the batteries.

If the unit is stored for more than 3 months the batteries are likely to self-discharge. Thus, after an extended period of storage it is recommended that the unit be charged overnight or for a minimum of 8 hours every 3 months and before use.

9.3 OPERATING THE UNIT FROM AC POWER

The **SireMaster® Professional** may be operated from AC outlet power (115VAC). However, the unit will not be able to provide the maximum amount of power to the probe as when running from the internal batteries. It is recommended to operate the unit in Medium or Low power mode (by pressing the “Power Select” button) when powered from AC to prevent a “Low Line Voltage” error (see Error Messages, page 21).

To operate the unit from AC power, plug the supplied recharging cord first into the **SireMaster® Professional**, and then into a standard AC receptacle. The unit will immediately show a charging message. Pressing the POWER button will stop the charging mode and switch the unit to normal operating mode. Each press of the POWER button will toggle the unit between “charging” mode and “normal operation”. Operation of the unit from AC power is identical to operation of the unit from battery power, with the exception that the second line of the LCD display will show an “AC Powered” message rather than the battery charge status bar to indicate that the unit is being powered from AC.



9.4 BATTERY REPLACEMENT

If the batteries fail to hold a charge or become discharged more rapidly than expected then battery replacement may be necessary.

Battery replacement can either be performed by the user or by ICE. If the user elects to change the batteries then the following procedure should be used.

CAUTION! IMPROPER CONNECTION MAY DESTROY THE UNIT AND VOID ALL WARRANTIES.

Replacement batteries should only be **YUASA P/N NP2.3-12** and both batteries must be replaced at the same time. For best results **DO NOT** use a substitute battery part number from a different manufacturer. Replacement batteries can be purchased from ICE Corporation.

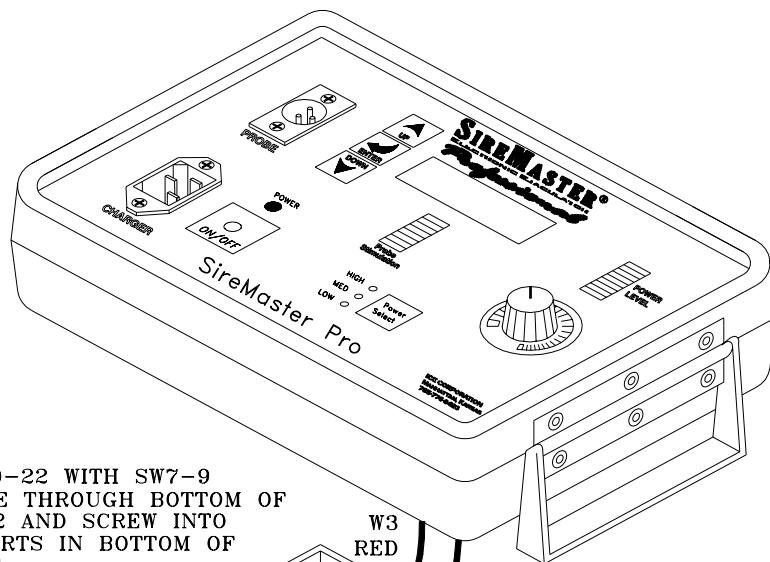
- Step 1. Please refer to Figure 7 below.
- Step 2. Turn the control unit upside-down with the Power Control knob over hanging the edge of the table and remove the three screws in the bottom of the battery case, shown as part numbers SC20, SC21, and SC22 on the drawing.
- Step 3. Grasp the control unit and the battery box and turn the assembly back upright, being careful to hold the battery box and the control unit together.
- Step 4. Carefully lift up on the control box. There should be two wires, one red and one black, coming out of the bottom of the control box and going to the batteries. Please look carefully to see that

they are both firmly attached to the battery posts as shown on the drawing. That is, the red wire to the (+) terminal on one of the batteries and the black wire to the (-) terminal of the other battery.

- Step 5. Also look carefully to see that the wire W18, red, is firmly connected between the (-) terminal of the first battery and the (+) terminal of the second one.
- Step 6. If all four connections are secure, then carefully remove them, one at a time and put the new batteries in place of the old ones in the battery case, with the (+) and (-) terminals oriented as shown in the drawing.
- Step 7. Attach W18 to the (-) terminal of the first battery and the (+) terminal of the second battery.
- Step 8. Attach the red wire from the control box, W3, to the (+) terminal of the first battery.
- Step 9. Attach the black wire from the control box, W9, to the (-) terminal of the second battery.
BE VERY CAREFUL TO CONNECT THE THREE WIRES W3, W9, AND W18 EXACTLY AS SHOWN!
- Step 10. Press the Power button on the control unit and the unit should come on normally. If it does not, call ICE at once! 785-776-6423.
- Step 11. If the unit does come on normally, then turn it back off and re-install any foam cushions that were holding the old batteries in place. Then place the control unit on top of the battery case, and turn the assembly upside-down ensuring that the Power Control knob is over-hanging the table. Reinstall the three screws in the bottom of the battery case. **BE VERY CAREFUL TO ENSURE THAT NONE OF THE WIRES ARE PINCHED BY THE SCREWS.** If necessary, tape the wires to the battery enclosure to keep them away from the mounting holes. Tighten the screws firmly but not too tightly or you may twist them off. You should now be ready to use the unit normally.

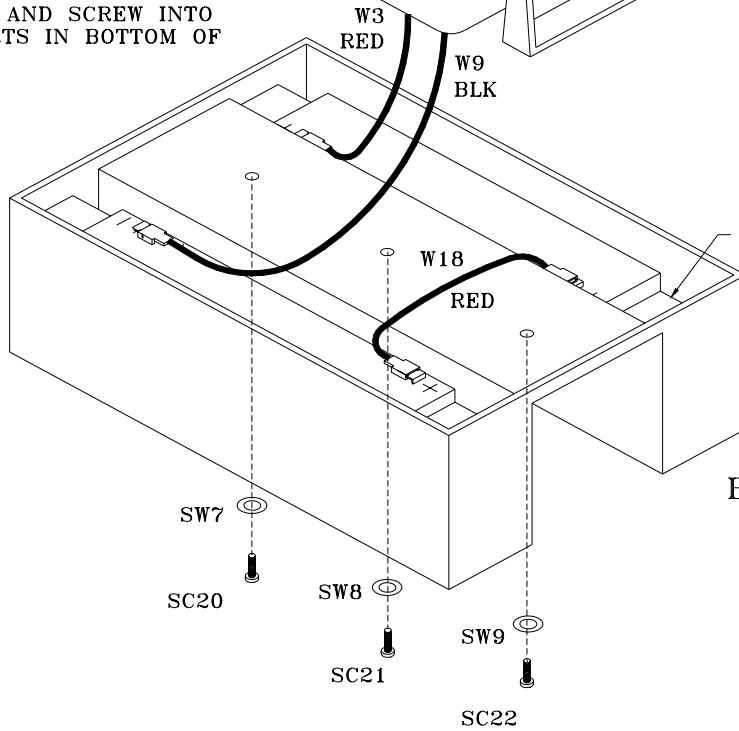
If this does not work out as explained, don't hesitate to call and we will step you through it or alternatively you can send the unit to ICE for battery replacement.

Note: These are Lead Acid Batteries. It is unlawful to dispose of batteries except through a recycling center.



Control Unit

NOTE: SC20-22 WITH SW7-9
COME THROUGH BOTTOM OF
ENC2 AND SCREW INTO
INSERTS IN BOTTOM OF
ENC1.



Battery Enclosure

Figure 7 Battery Replacement Diagram

10 PROBE CARE

It is important to keep the probe and the probe's electrodes clean for effective operation of the **SireMaster® Professional** electronic ejaculator. Remove all traces of lubricants and body fluids by washing the probe at the end of each day. We recommend cleaning the probe with soapy water and a towel (or any non abrasive cleaning utensil e.g. sponge or towel). Abrasive cleaners should not be used on any of the electrodes, unless the electrodes become tarnished and turn black, as abrasives might cause the nickel plating to come off.

Eventually through normal use of the probe, tarnishing of the electrodes may occur due to repeated exposure to corrosive material, humidity, and other such factors. Such tarnishing can result in diminished effectiveness of stimulation. This is most readily indicated by the “Probe Stimulation” meter continuously reading on the low end of the scale during the stimulation process.



Figure 8 Probe & Probe Cord

The conductivity of a tarnished probe can be restored by buffing the electrodes with a scouring pad as soon as tarnishing is detected or prior to each days use. A Brillo™ Pad, 3-M Pad, 00 Fine, or 000 Extra Fine Steel Wool will keep the electrodes a shiny brass color – allowing the unit to continue to provide maximum stimulation.

11 REPAIRS

If the unit detects a weak or discharged battery then a Low Battery message will be displayed to the user and the unit will shut down to prevent damage to the batteries from being too deeply discharged. When this happens the batteries **MUST** be recharged before the unit will be operational again. Refer to the Battery Charging Section for further details. If overnight charging and battery replacement both fail to enable the unit to stimulate animals properly, the electronics may need to be repaired.

If the unit detects a fault condition, then this fault condition will be displayed on the LCD display along with instructions to the user to either press the **POWER** button or the **ENTER** button. If the fault condition no longer exists then the unit should once again operate normally once power is toggled. If the fault condition persists after power has been toggled then the electronics may need to be repaired.

All repairs should be referred to ICE Corporation (Phone 785-776-6423). **NOTE:** Any repairs done by anyone other than ICE Corporation will void all warranties.

12 ACCESSORIES

<p>SireMaster® Professional manual/automatic electronic ejaculator (includes the following)</p> <ul style="list-style-type: none"> • SireMaster Professional Electronic Ejaculator • Rectal probe (2.5 inch, 7lb) • Two 15-foot probe cords • One 6 foot recharging cord • Semen collection handle with startup collection kit • Toolbox Carrying Case • One scrotal tape • Owner's manual <p>(automotive power adapter sold separately)</p>
<p>SireMaster® electronic ejaculator (includes the following)</p> <ul style="list-style-type: none"> • SireMaster Electronic Ejaculator • Rectal probe (2.5 inch, 7lb) • Two 15-foot probe cords • One 6 foot recharging cord • Semen collection handle with startup collection kit • Toolbox Carrying Case • One scrotal tape • Owner's manual
2.5 inch diameter 7 pound (SireMaster® standard) rectal probe with one 15 foot probe cord
2.5 inch diameter 7 pound (SireMaster® standard) rectal probe without cord
3 inch diameter 9 pound (approximate) rectal probe without cord (75mm dia)
3-1/2 inch diameter 9 pound (approximate) rectal probe without cord (90mm dia)
1-1/4" ram probe without cord
15 foot probe cord
6 foot recharging cord
Bundle of 50 1-A-Bull™ Semen Collection Kits
Screw-on caps for the disposable 10 ml collection vials
Semen collection handle
Two replacement batteries
Carrying case
Semen Stain, ½ oz. bottle
SireMaster® Slide Warmer , preset to 37°C (99°F)
SireMaster® 70 cm Scrotal Measuring Tape
SireMaster® Instructional Video Tape
<p>Shipping charges on purchases. All items will be shipped F.O.B. by UPS Ground unless otherwise requested in the continental U.S. Foreign shipments will require attention individually.</p> <p>On warranty items, the customer should return unit freight pre-paid to ICE. ICE will pre-pay shipping to the customer. On repair items not on warranty, the customer will be charged for return shipping.</p>
<p>Payment terms:</p> <ul style="list-style-type: none"> • Visa, Mastercard, COD, cash, or mail-in personal check for individual doctors or clinics on first time orders. Shipment after receipt of check or cash on mail-in payment. • Purchase order and Net 30 days for institutions. • Credit with payment net 10 days

13 TROUBLE-SHOOTING

13.1 COMMON PROBLEMS

Poor Stimulation

OPERATING CONDITION	POSSIBLE SOLUTION
<ul style="list-style-type: none"> – Power Level at maximum – Stimulation Meter in the upper green to red range 	<p>Too many contaminants. Clean contaminants from animal to ensure good contact between the probe electrodes and the animal.</p> <p>In order for the probe to be effective, the electrodes must be in good contact with the animal. Too many contaminants will cause the electricity to flow through the contaminants and prevent stimulation of the animal. In severe cases, the contaminants will cause an “overcurrent” error.</p> <hr/> <p>Probe too small. On some animals a larger probe may be necessary. The standard-sized probe may not provide enough contact with the animal to achieve good stimulation at reasonable power levels.</p>
<ul style="list-style-type: none"> – Power Level at maximum – Stimulation Meter off or in low green range 	<p>Probe electrodes dirty or corroded. Clean the electrodes according to “Probe Care” on page 18.</p> <hr/> <p>Damaged cord or probe. If possible, try another cord or probe.</p>

“Overcurrent” Error

OPERATING CONDITION	POSSIBLE SOLUTION
<ul style="list-style-type: none"> – Power Level at or near maximum – Stimulation Meter in the red range 	<p>Too many contaminants. Clean contaminants from animal to ensure good contact between the probe electrodes and the animal.</p> <hr/> <p>Probe too small. On some animals a larger probe may be necessary. The standard-sized probe may not provide enough contact with the animal to achieve good stimulation at reasonable power levels.</p>
<ul style="list-style-type: none"> – Occurs intermittently, at medium to high Power Levels – Stimulation Meter at maximum 	<p>Bad probe or probe cord. If the probe or probe cord are damaged, a direct short may occur creating an excessive power draw. Check to make sure the cord and the connectors are not damaged.</p> <p>To confirm a bad cord or connector, first plug the cord and probe into the unit. Lay the probe on a non-conductive surface (wood or plastic table) with the electrodes facing up. Turn on the unit and set it to a high power level. Then carefully wiggle the connectors and cord to locate the problem area (avoid touching the probe electrodes!). If the unit detects an overcurrent, then replace the damaged cord or probe.</p>

13.2 ERROR MESSAGES

	ERROR MESSAGE	DESCRIPTION
Self-Test	I Sensor Failure Press Power	First make sure that the batteries are charged.. If the error message persists, please contact ICE for repair.
	V Sensor Failure Press Power	
Normal Operation	Overcurrent Press Power	This message indicates that too much power was being drawn from the unit. It automatically disables the probe output in order to prevent damage to the unit and to the animal. See Common Problems, page 20.
	Very Low Battery Shutting Down	The battery voltage is too low to operate the unit and may cause damage to the batteries if left uncharged. Try to charge the unit as soon as possible.
	Low Line Voltage Unplug AC Power (when operating from AC power)	<p>This error should only occur when unit is operating while plugged into AC power. This indicates that too much power is being drawn from the unit. Maximum power can only be obtained when running from the internal batteries. Running the unit from AC power should only be used as a method of last resort when the batteries are completely discharged. (see Operating the unit from AC Power, page 15)</p> <p>If battery power is not an option, the unit may be operated in a reduced power mode by pressing the “Power Select” button and choosing either Medium or Low power mode. This will limit the power to probe and help prevent the “Low Line Voltage” error message from occurring.</p>
Charging	Low Line Voltage Unplug AC Power	AC line voltage is too low to charge the batteries or operate the unit. Try plugging the unit into different socket or at a different location.
	Bulk Timeout Unplug AC Power	The batteries will not charge up to full capacity and are damaged. They will continue to work, but will probably continue to degrade on each successive charge cycle until replaced.
	Charge Completed Unplug AC Power	The batteries may be slightly damaged, but are still able to maintain a good charge. They may not provide power for as long as a new set of batteries and will eventually degrade until they will not accept a full charge (see Bulk Timeout error above).
	Charger Failure Unplug AC Power	Either of these errors indicates a potential problem inside the unit. Try removing the AC charge cord for several seconds and then plug it back in. If the error message persists, please contact ICE for repair.
	Charger Failure - Unplug AC Power	
	Charger Failure + Unplug AC Power	

14 EIGHTEEN (18) MONTH LIMITED WARRANTY

The ICE Corporation warrants to the original purchaser, that each **SireMaster® Professional** unit is free from defects in material and workmanship for 18 months from the date of shipment (batteries not included).


ICE's obligation under this warranty is limited to repairing and or replacing, at ICE's option, parts found to be defective due to material and workmanship. Units thought to be defective must be returned, freight prepaid, to the ICE Corporation, for warranty service.

ICE does not warrant any unit that (A) has had serial numbers removed or altered or (B) has been used negligently, misused, damaged by fire, moistures, or other casualty, or altered by substitution of parts or otherwise.

ICE is not liable for any special, indirect or consequential damages arising from the use of this product, whether based on negligence or any alleged warranty in an amount greater than the purchase price of the product to which the claim is made. ICE does not warrant or guarantee fitness for purpose, merchantability, conception, or productivity. ICE will not be responsible for personal injury, property damage or economic loss of any kind which includes but is not limited to, loss of profit, losses caused by delay or expenses for labor, supplies, and rental equipment.

ICE reserves the right to make improvements, modifications, or design changes, at any time and ICE will have no contingent obligation to the end user.

THERE ARE NO TERMS, CONDITIONS, OR WARRANTIES, EXPRESS OR IMPLIED, OF QUALITY, MERCHANTABILITY, FITNESS, CAPACITY OR OTHERWISE, WHICH ARE DIFFERENT FROM OR OTHER THAN THOSE STATED ABOVE.

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