# Table of contents

Usage suggestions for ElectroJac 6 .............................................................. 2  
Precautions .................................................................................................. 3  
Standard ElectroJac 6 components .......................................................... 4  
ElectroJac 6 optional accessories ............................................................. 4  
Electronics instrument case ................................................................... 5  
Automatic operation with wireless remote control .................................... 6  
Automatic operation with optional dwell cable ........................................ 7  
Manual operation with wireless remote control ....................................... 8  
Manual operation with optional dwell cable .......................................... 9  
Troubleshooting ..................................................................................... 10  
Frequently asked questions .................................................................... 11  
Battery and AC battery charger ............................................................... 12  
Battery replacement ............................................................................... 12  
Remote control battery replacement ..................................................... 12  
Fuse replacement ................................................................................... 13  
Authorized repair center ....................................................................... 13  
Warranty .................................................................................................. 13  

---

**IDEAL Instruments**  
A Neogen Company  
800/621-8829  
or 859/254-1221  
944 Nandino Blvd.  
Lexington, KY 40511  
info@neogen.com  
www.neogen.com
Usage suggestions for ElectroJac 6

1. **Immobilize the bull**
   Use a head gate and squeeze chute, or similar solid enclosure, to limit the side-to-side and forward and backward motion of the bull. Bulls with room to move are more likely to fall, making collections more difficult.

2. **Footing is critical**
   Providing secure footing is perhaps the most important aspect of preparing a bull for collection. Bulls that are slipping and sliding are difficult to collect from. Some veterinarians spread a bucket of sand over the enclosure’s floor to increase a bull’s footing, and others have bulls stand in ankle-deep sand to ensure stable footing.

3. **Prestimulate the bull**
   Manually prestimulating the bull for 10-15 seconds prior to inserting the probe can relax the animal, and shorten collection time.

4. **Try automatic mode first**
   Veterinarians have found that up to 90% of bulls can be quickly collected from using ElectroJac’s unique automatic mode. Manual mode is most useful with older bulls that are more difficult to stimulate.
Precautions

1. Make sure the battery is connected properly. If the battery leads are reversed, the charging circuit can be permanently damaged.

2. Do not lay the probe on anything metallic when it is connected to the electronics. Doing so could short out the electrodes and may blow the fuse.

3. Keep electronics away from water. The electronics instrument case is water resistant but not waterproof. Water can damage the unit’s electronics.

4. Be careful when handling the optional dwell box. The on/off switch and the dwell switch can be damaged if the box is not handled with care.

5. After inserting the probe, hold the bull’s tail down to prevent the probe from slipping out and falling to the ground.

6. Contact customer service for assistance if the animal appears to be experiencing undue distress while using the ElectroJac 6.

7. Do not attempt to alter or repair the ElectroJac 6. Contact customer service for all maintenance and repair matters.

8. Make sure the bull is disconnected from the unit and probe before opening the chute.
Standard ElectroJac 6 components

Electronics instrument case  6915 – Remote control  6903 – AC battery charger
6901 – Carrying case
6986 – Metric scrotal tape
6983 – Semen collection director cone
6984 – Semen collection vial
6985 – Semen collection handle assembly
6912 – 20’ Probe cable assembly

And your choice of probe size:

- 6906-1 – 1” probe kit
- 6906-2 – 2” probe kit
- 6906-25 – 2.5” probe kit
- 6906-3 – 3” probe kit

ElectroJac 6 optional accessories

6989 – 1” (25 mm) Ram/boar probe, 6.75” (171 mm) length, 0.75 lbs
6990 – 2” (51 mm) Bull probe, 13” (330 mm) length, 3.5 lbs
6992 – 2.5” (64 mm) Bull probe, 15.5” (394 mm) length, 4.75 lbs

6910 – 20’ Dwell cable assembly
6993 – 3” (76 mm) Bull probe, 15.5” (394 mm) length, 6.25 lbs
6902 – Replacement battery

Questions? Call us at 800/621-8829 or 859/254-1221
Electronics instrument case

The electronics instrument case contains the system's electronics. This state-of-the-art design includes the following features:

**Automatic operation**

In automatic mode, the circuit delivers a series of 40 cycles, with each cycle delivering a slightly higher intensity. Each cycle lasts 2 seconds, followed by a 2 second pause. ElectroJac 6 is designed to go through all 40 cycles unless interrupted by either the on/off button or the dwell button.

**Manual operation**

In manual mode, the intensity is controlled by adjusting the manual control. Increasing voltage is applied to the probe’s electrodes as the manual control is turned clockwise. No power is supplied to the probe when the manual control is fully counterclockwise.

**Red/green battery light**

This light will flash red when the voltage drops below 10.4 volts, indicating the battery must be charged soon. A solid red light indicates the power has been shut off to save the battery. When the battery is being charged, the light will flash green. A solid green light indicates the battery is fully charged.

**Numeric display**

In automatic mode, the numerals indicate which of the 40 cycles the unit is in. A glowing dot in the bottom right-hand corner indicates when power is delivered. In manual mode, the numerals will blink and indicate output voltage. In manual, a glowing dot in the bottom right-hand corner indicates a half volt. For example, if the display reads: “15.”, the unit is delivering 15½ volts.

**Automatic cutoff circuit**

This circuit prevents damage to the electronics and battery by shutting the unit off when the battery drops below 10 volts. When this occurs, the battery light will glow solid red.

Questions? Call us at 800/621-8829 or 859/254-1221
Automatic operation with wireless remote control

1. To protect the unit and the animal, ElectroJac 6 must be prepared for use prior to beginning the operation. To prepare the unit:
   a. Set the Auto/manual switch on the electronics instrument case to Auto.
   b. Set the Manual control on the electronics instrument case to Low.

2. Once the animal is prepared for collection, insert the probe into the animal’s rectum with the three brass electrodes facing down.

3. After the probe is in place, press the green button on the remote control. ElectroJac 6 automatically will start through 40 cycles (2 seconds on, 2 seconds off) unless the dwell button is held down.

4. A glowing dot in the bottom right-hand corner of the display indicates when power is being delivered to the probe. Once semen collection is completed, press and hold the red button on remote control for 2 seconds.

5. After use, wipe the probe and cables down with a sponge and a nontoxic, nonabrasive cleaning solution.

**Resetting the unit**
If the animal experiences extreme discomfort, the unit may be reset to the lowest power level at any time by simply pressing the red button on the remote and holding for 2 seconds. When the unit is turned back on, it will automatically reset to the lowest power level.

**Using the dwell button**
When the dwell button is pressed, the electronics will remain at the current cycle, and continue to repeat that power level. When released, it will continue to cycle, starting at the next power level.

**Example**
When the animal becomes stimulated, holding the dwell button down will allow the unit to remain at that level until ejaculation. Should the animal appear to lose stimulation, release the switch and the unit will automatically continue increasing the intensity of each cycle until the animal again becomes stimulated.
Automatic operation with optional dwell cable

**NOTE:** Optional accessory (not included in the complete set)

1. To protect the unit and the animal, ElectroJac 6 must be prepared for use prior to beginning the operation. To prepare the unit:
   a. Set the *Auto/manual* switch on the electronics instrument case to *Auto*.
   b. Set the *On/off* switch on the dwell control box to *Off*.
   c. Set the *Manual* control on the electronics instrument case to *Low*.
   d. Plug one end of the probe cable into the electronics instrument case in the port marked *Probe* (on the case’s right side) and the other end to the probe.
   e. Plug the dwell cable into the electronics instrument case in the port marked *Dwell* (on the case’s left side).

2. Once the animal is prepared for collection, insert the probe into the animal’s rectum with the three brass electrodes facing down.

3. After the probe is in place, set the *On/off* switch on the dwell control box to *On*. ElectroJac 6 will automatically start through 40 cycles (2 seconds on, 2 seconds off) unless the *Dwell* switch is held down.

4. The red dwell light will glow and the numeric display will indicate the progression through the unit’s 40 cycles. A glowing dot in the bottom right-hand corner of the display indicates when power is being delivered to the probe. Once semen collection is completed, turn the *On/off* switch to *Off*.

5. After use, wipe the probe and cables down with a sponge and a nontoxic, nonabrasive cleaning solution.

**Resetting the unit**
If the animal experiences extreme discomfort, the unit may be reset to the lowest power level at any time by simply setting the *On/off* switch to *Off*. When the unit is turned back on, it will automatically reset to the lowest power level.

**Using the dwell switch**
When the dwell switch is pressed, the electronics will remain at the current cycle, and continue to repeat that power level. When released, it will continue to cycle, starting at the next power level.

**Example**
When the animal becomes stimulated, the dwell button may be depressed. By holding the switch down, the unit will remain at that level until ejaculation. Should the animal appear to lose stimulation, release the switch and the unit will automatically continue increasing the intensity of each cycle until the animal again becomes stimulated.
Manual operation with wireless remote control

Preparation
Neogen recommends operators familiarize themselves with the operation of the manual control prior to using ElectroJac 6’s manual setting. To accomplish this, do the following:
2. Set the Manual control on the electronics instrument case to Low. **NOTE:** Always make sure the Manual control is in Low before turning the unit on.
3. Press the green button on the remote.
4. While observing the blinking numeric display, slowly turn the manual control clockwise for approximately one second. Notice when the numerals on the display begin to increment. This is the start of stimulation. Practice this several times before using on an animal.

Operation
1. To protect the unit and the animal, ElectroJac 6 must be prepared for use prior to beginning the operation. To prepare the unit:
   b. Set the Manual control on the electronics instrument case to Low.
   c. Plug one end of the probe cable to the electronics instrument case in the port marked Probe (on the case’s right side) and the other end to the probe connection.
2. Once the animal is prepared for collection, insert the probe into the animal’s rectum with the three brass electrodes facing down.
3. After the probe is in place, press the green button on the remote. Slowly manipulate the manual control clockwise/counterclockwise until ejaculation.
4. Once the collection is complete, set the Manual control on the electronics instrument case to low, set the Auto/manual switch on the electronics instrument case to Auto, then press the red button on the remote control to turn the unit off. **NOTE:** To turn the unit off with the remote, the Auto/manual switch must be switched to Auto.
5. After use, wipe the probe and cables down with a sponge and a nontoxic, nonabrasive cleaning solution.

**NOTE:** The manual control must be in the low position prior to beginning manual operation.
Manual operation with optional dwell cable

NOTE: Optional accessory (not included in the complete set)

Preparation
Neogen recommends operators familiarize themselves with the operation of the manual control prior to using ElectroJac 6’s manual setting. To accomplish this, do the following:
1. Connect only the dwell cable to the electronics instrument case. Make sure the On/off switch on the dwell control box is Off.
3. Set the Manual control on the electronics instrument case to Low. NOTE: Always make sure the manual control is in Low before turning the unit on.
4. Set the On/off switch on the dwell control box to On.
5. While observing the blinking numeric display, very slowly turn the manual control clockwise. Notice when the numerals on the display start to increment. This is the start of stimulation. Practice this several times before using on an animal.

Operation
1. To protect the unit and the animal, ElectroJac 6 must be prepared for use prior to beginning the operation. To prepare the unit:
   b. Set the On/off switch on the dwell control box to Off.
   c. Set the Manual control on the electronics instrument case to Low.
   d. Plug one end of the probe cable to the electronics instrument case in the port marked Probe (on the case’s right side) and the other end to the probe.
   e. Plug the dwell cable to the electronics instrument case into the port marked Dwell (on the case’s left side).
2. Once the animal is prepared for collection, insert the probe into the animal’s rectum with the three brass electrodes facing down.
3. After the probe is in place, set the On/off switch on the dwell control box to On. Slowly manipulate the manual control clockwise then counterclockwise until ejaculation.
4. After use, wipe the probe and cables down with a sponge and a nontoxic, nonabrasive cleaning solution.

NOTE: The manual control must be in the low position prior to beginning manual operation.
Troubleshooting

1. **What do I do if my remote control does not turn on the unit?**
   Replace the battery (size CR 2032). To get to the battery, remove the screw on the back of the remote control.

2. **What do I do if my battery will not charge?**
   a. Look at the low battery light: if it flashes red, the battery is low. It flashes red when the voltage drops below 10.4 volts, thus indicating the battery must be charged soon.
   b. A solid red light indicates the power has been shut off to save the battery. The automatic cutoff circuit prevents damage to the electronics and battery by shutting the unit off when the battery drops below 10 volts. When this occurs, the battery light will glow solid red.
   c. The light will flash green when the battery is being charged.
   d. A solid green light indicates the battery is fully charged.

3. **What do I do if the unit does not appear to be charging when plugged in the wall?**
   a. Make sure the outlet the unit is plugged into has power.
   b. Make sure the cable is plugged into the correct charging port on the electronics case.
   c. The battery light should start blinking green if the unit is charging.
   d. If the charging circuit needs to be replaced, call 800/621-8829 for technical support.

4. **What do I do if moisture gets in the unit?**
   If moisture gets in the unit, allow the unit to dry out for **24–48 hours**. Do not attempt to turn on the unit during the dry out period.

5. **What do I do if the dwell light on the dwell cable (optional accessory) does not glow?**
   a. Check to make sure the On/off switch on the dwell cable is in the On position, and the dwell cable is fully plugged in.
   b. Check the fuse located on the electronics board. If the fuse is blown, see Fuse Replacement on page 13.

6. **What do I do if the bull does not collect on the first automatic cycle?**
   There are two options in this scenario:
   a. Let the unit run through another set of cycles.
   b. Press and hold the dwell button on the remote control (or dwell cable) while at or near cycle 40 until the bull is collected from.

7. **What do I do if the unit does not work on manual mode?**
   In this case, the Auto/manual switch is probably the concern and the unit will need to be sent in for repair.

8. **What do I do if the unit is left on for a long period of time?**
   The unit automatically will turn off after remaining on for one consecutive hour.
Frequently asked questions

1. **What are the advantages of ElectroJac 6 over other units?**
   ElectroJac 6 is a fully portable ejaculation unit that will operate manually or automatically through 40 increasing power output cycles. With proper use of the dwell switch, semen collection is made easier, especially from older bulls that may be difficult to stimulate.

2. **Are probes of different sizes available?**
   Yes, Neogen offers 1", 2", 2 1/2", and 3" probes.

3. **Can probes be repaired?**
   No, the probes are not repairable.

4. **Can I use probes or cables manufactured by other companies?**
   No, they do not meet Neogen’s design specifications, and could damage the unit.

5. **Can I use cables or probes from ElectroJac I or II?**
   No, they are not compatible.

6. **Can I use cables or probes from ElectroJac III, IV or 5?**
   Yes, they are fully compatible.

7. **If needed, would you send me drawings so I can repair the unit myself?**
   No, due to legalities, and to ensure proper operation and maintain the warranty, only an authorized repair facility may repair ElectroJac 6.

8. **How should the unit be sent in for repair?**
   First, contact the Animal Safety Division at 800/525-2022 or 859/254-1221.

9. **During extended periods of nonuse, what should be done to protect the battery?**
   The battery should be fully charged every 6 months when not in use. Charging the unit for **45 minutes** is the recommendation.

10. **Can this unit be used by power supplied from the AC battery charger?**
    No, since ElectroJac 6 is designed as a fully battery-operated unit, the AC battery charger only is furnished to recharge the battery.

11. **What is ElectroJac 6’s warranty?**
    ElectroJac 6 carries a full 12-month limited warranty on defective materials and workmanship from the date of purchase.
Battery and AC battery charger

A 12-volt gel cell battery and AC battery charger are supplied with ElectroJac 6. To ensure optimum power performance from the unit:

1. Always start with a fully-charged battery.
2. ElectroJac 6 can be left plugged in indefinitely after each use. The electronics ensure that the battery is not damaged due to overcharging.
3. Charge the battery immediately when the battery light glows red. Charge for at least 30 minutes. Although the low battery light has not come on, it is recommended that the battery be charged after moderate use.
4. Do not plug the AC battery charger into a portable generator. Surges can damage the battery charger and ElectroJac 6’s electronics.

Battery replacement

Only use a replacement battery from Ideal Instruments. The use of other batteries in ElectroJac 6 may damage the unit, and/or void the warranty.

1. Remove the dwell cable (if used) and the probe cable. Remove the bottom from the electronics case by opening the latches on both sides of the case, while carefully supporting the relatively heavy case bottom.
2. Remove red and black leads from the battery by pulling lead connectors away from battery contacts, being careful not to pull on the wire.
3. Remove the two wing nuts from the aluminum battery hold-down bracket.
4. Remove the aluminum battery hold-down bracket and lift out battery.
5. Install the new battery by reversing steps 1 through 4. **CAUTION:** Be careful not to short the replacement battery by inadvertently connecting the battery’s terminals with a metal object.

Remote control battery replacement

Battery size for remote control: CR2032
To get to battery, take the remote apart by taking the screw out of the back of the remote control.
Fuse replacement
1. Remove the dwell cable (if used) and the probe cable.
2. Unlatch the battery compartment.
3. Tip electronics case upside down to view the electronic circuit board.
4. The fuse should be visible near the center of the lower edge of the electronic circuit board.
5. Remove blown fuse and replace with a new 5 x 20 mm, 4 amp, Fastblow Littlefuse brand (item 235004), or equivalent.
6. Replace the top of the electronics case onto the battery compartment and latch the two sections together.

Authorized repair center
Neogen Corporation
Attn: Electronics Department
944 Nandino Blvd.
Lexington, KY 40511
800/525-2022 or 859/254-1221

IMPORTANT: Always check the unit for shipping damage immediately after receipt from repair. Shipping damage normally is the responsibility of the carrier. If ElectroJac 6 has been damaged during shipping, inform the carrier immediately, and call Neogen's Electronics Department at the number above.

Warranty
ElectroJac 6 carries a 12-month limited warranty on defective materials and workmanship. All products covered under this warranty are to be returned, freight prepaid.