USING THIS GUIDE

This guide provides basic information to help you use your Medtronic deep brain stimulation (DBS) system. It also describes other Medtronic resources available to help you as you begin living with your implanted DBS system.

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For additional information, you may also refer to the Patient Programmer 37642 Medtronic DBS Therapy user manual and Recharger 37751 Charging System user manual. You can find step by step instructions at medtronic.com/DBSProgrammerRecharger
YOUR MEDTRONIC PATIENT IDENTIFICATION CARD

Your Medtronic Patient Identification (ID) Card contains important information about your medical device and includes your physician’s phone number in case you have a medical question or emergency. Keep your ID card with you at all times, and ensure the information on it is accurate.

Your ID card:
- identifies you as having an implanted device in case of an emergency.
- includes a toll-free number to contact Medtronic.
- helps Medtronic maintain current and accurate information for your records.

Your ID card allows you to notify security personnel and health professionals that you have an implanted medical device. Present your ID card when you have any medical or dental procedures, or when you must pass through a security screening system (such as airport security) where your device may set off an alarm.

GETTING AN IDENTIFICATION CARD

You should have received a temporary ID card at the time of your implant procedure. You will automatically receive a permanent plastic ID card from Medtronic, 3-4 weeks after the procedure. There is no fee for the card. Contact Patient Registration at the number below if you do not receive a permanent ID card in 4-6 weeks.

We recommend that you carry your ID card with you at all times. If you move or change physicians, or if any of the other information on the card changes, contact Patient Registration to update your information and request a new card. You may also update your card online at www.medtronic.com by selecting the Patients tab, then clicking on Manage ID Card under the Tools heading.

If your ID card is lost or stolen, Patient Registration can issue a replacement card. Patient Registration can also issue an extra card for a spouse.

Patient Registration Contact Information:
Call 1-800-551-5544 Monday–Friday, 7:00 a.m. to 6:00 p.m. Central time.
PROGRAMMER BASICS

1. THERAPY ON/OFF KEY
   - Turns therapy ON or OFF.
   - Programmer (antenna) must be placed directly over the neurostimulator while pressing the THERAPY ON/OFF KEY.
   Note: You must synchronize the neurostimulator and the programmer using the CHECK KEY before turning therapy ON or OFF.

2. CHECK KEY
   - Synchronizes the neurostimulator and the programmer.
   - Used to check the neurostimulator battery status.

3. POWER/BACKLIGHT ON/OFF KEY
   - Turns the patient programmer ON and OFF.
   - Holding the key down turns the screen backlight ON or OFF.

4. SELECTION KEYS
   - Makes selections or changes based on the information displayed on the screen.

5. NAVIGATOR KEYPAD
   - Allows you to scroll through menu options and is used to clear informational messages on the screen.
   - Press the up ▲ and down ▼ keys to move the box to the desired row.
   - Press the left ◀ and right ▶ keys to see additional options in a selected row.

For additional information, you may also refer to the Patient Programmer 37642 Medtronic DBS Therapy User and Recharger 37751 Charging System user manual.

See Your Medtronic DBS Patient Therapy Guide for information on warnings, precautions, risks, and benefits.
### INFORMATION AND WARNING SCREENS

<table>
<thead>
<tr>
<th>Information Screens</th>
<th>What to Do</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmer is attempting to communicate with the neurostimulator</td>
<td>- Place the programmer or the detachable antenna over the neurostimulator.</td>
</tr>
<tr>
<td>Communication in progress</td>
<td>- Continue to place the programmer or the detachable antenna over the neurostimulator.</td>
</tr>
</tbody>
</table>
| Poor communication | - The programmer attempted to communicate with the neurostimulator.  
- Communication was unsuccessful.  
- Reposition the programmer with the screen facing outward or the antenna over the neurostimulator.  
  - If using the antenna, check that the antenna is connected properly, reposition the antenna or remove and place the patient programmer with the screen facing outward, and try the communication again.  

*Note: If none of the above resolve the poor communication screen, contact Medtronic Patient Services for further troubleshooting assistance. ([See number at end of book](#)). |
| Programmer batteries are low and need to be replaced | - Make sure you have extra AAA alkaline batteries available. |
| ERI (elective replacement indicator) condition | - The neurostimulator battery is close to its End of Service date.  
- Therapy will not be available soon.  
- Call your clinician immediately.  
- Press any arrow on the NAVIGATOR KEYPAD to clear this message.  
- Once this screen is cleared, a flashing ERI icon will appear on the Battery row of the Therapy screen. |

<table>
<thead>
<tr>
<th>Warning Screens</th>
<th>What to Do</th>
</tr>
</thead>
</table>
| Programmer batteries are depleted | - Programming is not possible.  
- Replace the patient programmer batteries now. |
| Synchronize the programmer and neurostimulator | - Place the programmer or the antenna directly over the neurostimulator and press the CHECK KEY. |
| EOS condition | - Neurostimulator battery is at End of Service.  
- Therapy has stopped.  
- Neurostimulator must be replaced to resume therapy.  
- Call your clinician immediately. |
ATTACHING THE ANTENNA

1. Place the antenna directly over the neurostimulator.

2. Pull the fabric of your clothing through the large opening in the antenna. Then, wedge the fabric in the narrow slit to secure the antenna in place.

3. Push the antenna plug firmly into the antenna jack (¥) on the patient programmer.

Note: The antenna is optional. To use the programmer without the antenna, place the programmer over the neurostimulator with the screen facing outward.

SYNCHRONIZING YOUR PATIENT PROGRAMMER WITH YOUR NEUROSTIMULATOR

1. Place the programmer (with the screen facing outward) or antenna over the neurostimulator and press the CHECK KEY .

Note: Using the CHECK KEY to synchronize also turns on the patient programmer.

2. The Therapy screen appears displaying the neurostimulator battery status dependent on the device you have.

   - Simple mode
     - Battery status
   - Advanced mode*
     - Battery status
   - Activa RC Only

Note: If you have two neurostimulators implanted, your patient programmer can communicate with both neurostimulators, but only one at a time. The programmer only displays information about the neurostimulator it is presently synchronized with. The programmer must be turned off and then synchronized with the other neurostimulator.

* You and your physician may have selected Advanced Mode based on your need to adjust your therapy.
THERAPY SCREEN BASICS

There are two therapy modes available: Simple and Advanced. Your clinician will decide which mode you’ll receive and will discuss your therapy settings with you.

If you have an Activa SC, the display would look like the below.

If you have an Activa PC or Activa RC that is delivering therapy to both sides of your body, then the display would look like the below.

You may have the ability to change therapy settings when in Advanced Mode, if prescribed by your clinician.

The neurostimulator battery status is displayed on the Therapy screen.

THERAPY SCREEN ICONS

<table>
<thead>
<tr>
<th>Row</th>
<th>Icons</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>🥶</td>
<td>Therapy is ON</td>
</tr>
<tr>
<td></td>
<td>🥶</td>
<td>Therapy is OFF*</td>
</tr>
<tr>
<td>Battery</td>
<td>📦</td>
<td>Neurostimulator battery status (nonrechargeable)</td>
</tr>
<tr>
<td>Parameter/Group**</td>
<td>📊</td>
<td>Active group</td>
</tr>
<tr>
<td></td>
<td>📊</td>
<td>Amplitude</td>
</tr>
<tr>
<td></td>
<td>📊</td>
<td>Pulse width</td>
</tr>
<tr>
<td></td>
<td>📊</td>
<td>Rate</td>
</tr>
</tbody>
</table>

* When the “text on” display format is activated, the word OFF will flash when the neurostimulator is turned off. When the “text off/icon only” display format is activated, the Warning icon (i.e., an exclamation mark in a triangle) will flash.

** The Parameter/Group row only appears in Advanced mode. If only one group is available, this row displays only the parameter setting icon.
SELECTING A NEW GROUP

Only select the group that your clinician has recommended for your specific needs. The group feature is only available in the Advanced mode.

1. Hold the programmer (or antenna) over the neurostimulator (with the screen facing outward) and press the CHECK KEY.

2. Press the down arrow on the NAVIGATOR KEYPAD to move the selection box to the Parameter row.

3. Press the right arrow on the NAVIGATOR KEYPAD to display the available groups. The Group settings screen appears.

4. Press the up or down arrow on the NAVIGATOR KEYPAD to highlight the desired group.

5. Hold the programmer (or antenna) directly over your neurostimulator and press the CHECK KEY to synchronize with the programmer. The Communication screen briefly appears followed by the Therapy screen. The Therapy screen will display your new therapy parameters and group setting.
CHANGING THERAPY SETTINGS

The ability to change therapy settings is only available in Advanced mode. You can only change the settings of the active group.

1. Hold the programmer (or antenna) over the neurostimulator (with the screen facing outward) and press the CHECK KEY.

2. Press the down \( \downarrow \) arrow on the NAVIGATOR KEYPAD to move the selection box to the Parameter row.

3. Press the Selection Key directly under the displayed setting you want to adjust.

4. Press the desired selection key again to increase or decrease the selected therapy setting as needed.

Note: If you have an Activa PC or RC that is delivering therapy to both sides of your body, the display will show both left and right values.

5. Press an arrow on the NAVIGATOR KEYPAD to return to the Therapy screen.

Note: Access to increase or decrease the settings is determined by your physician.

Note: If you have multiple neurostimulators, the programmer must be turned off prior to communicating with another neurostimulator. Repeat steps 1-5 for the other side of your body if desired.
RETURN TO CLINICIAN SETTINGS

If you have changed your therapy settings and want to return to the settings selected by your physician, follow these steps:

1. Hold the programmer (or antenna) over the neurostimulator (with the screen facing outward) and press the CHECK KEY.

2. Press the down arrow on the NAVIGATOR KEYPAD to move the selection box to the Parameter row.

3. Press the right arrow on the NAVIGATOR KEYPAD to display the available groups. The Group settings screen appears.

4. With the selection box highlighting the current group, press the right arrow on the Navigator key. The Group reset screen appears. Then press the CHECK KEY. The programmer beeps when the group settings are changed (if the audio is turned on).

Note: If the group you want to change back to clinician settings is not active, you must first select that group to make a change.
BATTERY CHECK: DEVICE AND PROGRAMMER
CHECKING YOUR NEUROSTIMULATOR BATTERY STATUS

You can check your neurostimulator by either placing your patient programmer over your implant or by using the antenna.

Press the CHECK KEY 🔄. The Therapy screen appears.

Battery Row
The second row on the Therapy screen is the Battery row. This row tells you the battery status of your neurostimulator. The Battery row typically displays OK.

If the Battery row displays ERI (elective replacement indicator):
- The neurostimulator battery is close to its End of Service date.
- Therapy will not be available soon.
- Call your clinician.
- Press any arrow on the NAVIGATOR KEYPAD to clear this message.
- Once the screen is cleared, a flashing ERI icon will appear on the Battery row of the Therapy screen.

If you have a Activa™ RC, you have 1 year from ERI to EOS. If you have a Activa™ PC/SC, you have approximately 3 months from ERI to EOS with typical movement disorder settings.

If the Battery row displays EOS (end of service):
- The neurostimulator battery is at End of Service.
- Therapy has stopped.
- Neurostimulator must be replaced to resume therapy.
- Call your clinician immediately.

Note: Your patient programmer has two display format options: “text on” and “text off/icon only.” The programmer screens in this guide display the “text on” format (i.e., the screens display icons and accompanying text). Please refer to the Patient Programmer Model 37642 User Manual for more information about display format options.

Activa™ RC Battery Charge Level
If you have an Activa™ RC Neurostimulator, the display will include the battery charge level.
If the neurostimulator battery charge level is low:
- Therapy will not be available soon.
- Charge the neurostimulator battery immediately.
- Refer to the manual packaged with the charging system.
- Press any arrow on the NAVIGATOR KEYPAD to clear this message from the screen.

If the neurostimulator battery charge level is depleted and in a discharged state:
- Therapy has stopped.
- Charge the neurostimulator battery immediately.
- Refer to the manual packaged with the charging system.

IMPORTANT: It is very important to check your neurostimulator battery every day.
It is important for you to recharge your battery on a regular, frequent basis as recommended by your doctor to make sure that the neurostimulator battery remains charged.
CHECKING YOUR PATIENT PROGRAMMER BATTERY STATUS

You can check your patient programmer battery by either placing your programmer over your implant or by using the antenna. Press the CHECK KEY  . The Therapy screen appears.

To display the current programmer battery status:

**Simple mode:** Press the right ▶ arrow on the NAVIGATOR KEYPAD twice to display the programmer battery status.

**Advanced mode:** Press the up ▲ arrow on the NAVIGATOR KEYPAD once to highlight the Status row, then press the right ▶ arrow.

Review the status of the programmer battery.

If the programmer batteries are low:

- You can finish programming.
- Press any arrow on the NAVIGATOR KEYPAD to clear the screen; then continue programming.
- Replace the programmer batteries before the batteries become depleted.

If the programmer batteries are depleted:

- Programming is not possible.
- Replace the programmer batteries now.

**Note:** The Battery Status screens for the neurostimulator and programmer are displayed differently.

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![Battery Status Screens](image-url)
RECHARGING SYSTEM

If you have a rechargeable neurostimulator, this section explains how to recharge both your neurostimulator and the recharger.

The Recharging System includes the following components:

1. **The Recharger** charges your implanted neurostimulator.
2. **The Antenna** establishes communication between the neurostimulator and the recharger, when charging the neurostimulator.
3. **The Belt** can be used to keep the antenna positioned directly over the neurostimulator during a charging session.
4. **The AC Power Supply** charges the recharger using AC power. Plug one end into a wall outlet and the other end into the recharger.

Other charging options:
You may use an adhesive disk to hold the antenna in place. A belt may be available for abdominal placements.

- **Audio Control Key**
  - Turns the recharger on.
  - When the recharger is on, pressing the Audio Control key again turns the audible status tones on and off.

- **Start Charge Key**
  - Begins charging the neurostimulator.

- **Stop Charge Key**
  - Ends or interrupts the neurostimulator charging session.
CHARGING YOUR NEUROSTIMULATOR

To charge your neurostimulator:

1. **Position the antenna.** Press your skin where your neurostimulator is located to determine the best place for the antenna. Depending on the location of your implanted neurostimulator, you may use the belt to ensure the antenna is correctly positioned for charging.

2. **Press the green Start Charge key** on the recharger, after the antenna is in place.

3. The **Recharger Wait** screen will display on the recharger, indicating that the neurostimulator and recharger are trying to communicate with each other. Note: If you want to check your signal strength after moving the antenna, press the green **Start Charge** key to get immediate feedback.

4. When charging begins, the **Neurostimulator Recharging** screen will appear. The bottom row of boxes on this screen will indicate the strength of the charging signal.

   - A Neurostimulator is ON (●) or OFF (○).
   - Audio is ON or OFF
   - Recharger Battery Status — Indicates charge level of the recharger.
   - Recharge Progress row — Indicates the progress of the recharging session.
   - Recharge Efficiency row — Indicates the efficiency of the recharging signal between the neurostimulator and the recharger (more black boxes mean better efficiency and shorter recharge duration).

If all eight boxes are solid black, the charging signal is as strong as possible, and the charging session will be as short as possible.

**Note:** These black boxes are only an indicator of the charging signal strength and do not indicate how much the battery has been charged.

5. **Adjust signal strength.** Signal strength can be improved by ensuring that the antenna is not placed over bulky clothing. You can also increase the charging signal strength by either adjusting the dial or repositioning the antenna. To adjust the dial, turn it a quarter turn in either direction. Then press the **Start Charge** key again.

6. When recharging begins, you will see the **Neurostimulator Recharging** screen. This screen is used to:
   - Check the status and progress of the neurostimulator recharging session.
   - Show you the battery status of your recharger.
   - Display a flashing battery icon for the neurostimulator, indicating that the battery is recharging.

**Note:** The recharge efficiency (number of boxes filled) is dependent on the position of the antenna and the location and depth of your implant. In some cases, you may reach your maximum efficiency with less than eight black boxes filled. Use the dial on the antenna to improve efficiency.

7. When your neurostimulator battery is almost full, the **Neurostimulator Charge Sufficient** screen will appear. It is ok to stop charging at this point.
Neurostimulator charging tips:
- Turning stim on/off with the recharger for DBS is disabled.
- If the recharger loses its connection to your neurostimulator, you may hear three beeps and the Reposition Antenna screen will appear.

Reposition Antenna screen

To reestablish the connection, reposition the antenna over your neurostimulator and press the green Start Charge key again.
- If you need to interrupt your charging session, press the Stop Charge key on the recharger. To resume the charging session, press the Start Charge key again.

CHARGING THE RECHARGER

1. Plug the AC power supply cord into an AC outlet. A green light on the power supply indicates it has power.
2. Connect the AC power supply. The recharger will automatically start to charge when connected to the AC power supply, and the recharger charging session will be displayed.

BEFORE YOUR MRI

Depending on the type of DBS system you have, you may be eligible for either a full-body or head-only MRI scan. You can help your clinician and radiologist determine which type of scan you are eligible for by following these guidelines.

1. **Tell the physician who prescribed your MRI scan that you have an implanted Medtronic DBS system.** An MRI scan could be prescribed by a variety of physicians, including a general practitioner, orthopedist, oncologist, or a pain specialist.

2. **Contact the physician who manages your DBS to discuss your upcoming MRI scan.** Your neurologist should tell you if you can safely undergo the type of MRI scan prescribed. Your neurologist may also provide you or your radiologist with a copy of the MRI Patient Eligibility Form. The information on this form can help the radiologist confirm your eligibility for the prescribed MRI scan.

3. **When your MRI appointment is scheduled.** You will want to work with the physician who manages your DBS therapy to prepare for your scan. Make sure you bring your programmer and patient ID card with you the day of the scan.

If you have questions about your MRI scan eligibility or how to prepare your DBS system for an MRI scan, contact your physician who manages your DBS therapy or Medtronic Patient Services at 1-800-510-6735.
PATIENT RESOURCES

The following resources are available to assist you with your implanted DBS system.

Call Patient Services at 1-800-510-6735 Monday – Friday, 8:00 a.m. to 5:00 p.m. Central time for assistance with:

- programmer or recharger troubleshooting.
- finding a new physician if you are traveling or moving.
- your Medtronic Patient ID card.

Follow up with your doctor for assistance with:

- medical concerns.
- management of your therapy, including what stimulation level you should use and adjustments to stimulation level, if needed.

For additional support, please fill out the attached Support Program Agreement form. The program is free and open to anyone using a Medtronic DBS system.

Help with your Medtronic DBS patient programmer or recharging system

- Your clinician, nurse, or Medtronic representative may show you how to use your programmer or recharger. Call the clinic if you need more help or have questions.
- You will receive a manual with detailed instructions.
- Medtronic Patient Services can send you another copy of your manual or answer questions about how to use your programmer.

Call us at 1-800-510-6735, Monday – Friday, 8:00 a.m. to 5:00 p.m. Central time.

Instructional videos explaining how to charge your implanted neurostimulator and your recharger may be viewed at the following website: medtronic.com/DBSProgrammerRecharger
WE'RE HERE TO HELP

WELCOME TO THE MEDTRONIC FAMILY

You and your doctor have decided that a Medtronic implantable DBS system is the right option for you. As part of your therapy, your doctor may share, or you may have already shared, basic personal health information (name, phone, type of therapy, etc.) with a Medtronic sales or clinical representative so they may help you with your Medtronic therapy.

HOW WE CAN HELP

You can choose to receive additional support from Medtronic. Our Patient Support Program offers several complimentary benefits, including:

- A dedicated Patient Services team that can answer your questions about living with your Medtronic DBS system.
- Support from others living with a Medtronic DBS system.
- Updates on Medtronic products and therapies.

In order to provide this additional support, we need to obtain your written consent.

SUPPORT PROGRAM AGREEMENT

By completing and submitting this form, you are granting Medtronic permission to add your personal information, including your contact information and basic healthcare information, to its patient database, and to share that information with Medtronic representatives and health care providers as appropriate. We may conduct analyses on information collected in order to make improvements to and provide training on our operations, products, services, and customer communications. Medtronic may de-identify data collected, combining it with data collected from other sources. Lastly, information provided may be shared with your physician for treatment considerations or other purposes. You also agree to being contacted by Medtronic in the future by mail, telephone or by non-password protected electronic communications, such as emails or text messages. Medtronic may exchange information with you regarding our products or services, inquire about your experience, or determine how Medtronic can support you through your journey.

Medtronic respects the confidentiality of your personal information. If at any time you wish to revoke all or part of this permission, you can email us at rs.neuropatientsupport@medtronic.com or send a request in writing to Medtronic Patient Support, 7000 Central Ave NE, RCE 230, Minneapolis, MN 55432. This permission will expire 10 years after the date of your signature.*

*If you live in Maryland, the consent expires automatically in one year. We may contact you then to see if you would like to renew it.

To submit this form, mail it to 7000 Central Ave. NE, RCE230, Minneapolis, MN 55432-9987, or fax it to 1-800-892-7708. To receive a copy of this consent, call 1-800-872-8287, or email us at rs.neuropatientsupport@medtronic.com. Let us know how you would like to receive it (email, mail, or fax).

Patient (please print):

First Name    Last Name
Address
City    State   ZIP Code
Phone
Email Address
Physician Name    Clinic Name
Signature (if 18 years old or older)
Date

Guardian/Caretaker (if applicable):

First Name    Last Name
Address
City    State   ZIP Code
Phone
Email Address
Signature      Date