Chapter 2 — Positioning the Patient

In order to acquire an image of a particular anatomical region, the patient must be properly positioned on the Echelon OVAL MRI System WIT mobile table using one or more pads, then fitted with the appropriate coil. The system is equipped with lasers to guide you in positioning the patient outside the magnetic field. Once you have centered the region to be studied, you can move the patient into the magnetic field, where the imaging will be performed.

General instructions about the Echelon OVAL MRI System control panels and the proper use of the imaging hardware are provided in this chapter. Patient positioning terms, operation of the patient call bulb, and WIT mobile table preparation directions are also included.

Gantry and WIT mobile table Data

The gantry features a 29 in. (74 cm) oval bore for maximum patient accessibility and comfort. While the large, high-capacity WIT mobile table comfortably supports a broad range of body types, the limits listed below should be followed.

- Patient aperture: 29 in. (74 cm) × 25 in. (65 cm)
- WIT mobile table weight capacity: 550 lb. (250 kg)
- WIT mobile table width: 25 in. (63 cm)
- Total longitudinal travel: >9 ft. (279 cm)
- Vertical range: 19.7-33.2 in. (50-84 cm)
- Class II laser positioning:
  - ±0.5 mm accuracy
  - Automatic movement to isocenter
Terminology

The following terminology is used throughout this manual to ensure clear and explicit instructions:

**WIT mobile table**

- References to the *foot of the WIT mobile table* indicate the end of the table farthest from the magnetic field.
- References to the *head of the WIT mobile table* indicate the end of the table nearest to the magnetic field.
- References to the *right or left side of the WIT mobile table* indicate the sides as if you were standing at the foot of the table looking at the magnet.

**Body Positioning**

- *Supine* refers to positioning the patient on his/her back, lying face up.
- *Prone* refers to positioning the patient on his/her stomach, lying face down.
- *Right decubitus* refers to positioning the patient on his/her right side.
- *Left decubitus* refers to positioning the patient on his/her left side.

**Patient Safety**

While you are positioning the patient on the WIT mobile table, and while the patient is in the magnetic field, you must constantly monitor the patient’s safety. Make sure that the receiver coil cable remains away from the patient and that the patient does not make contact with the gantry while the table is moving.

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**Warning**

Do not allow persons with pacemakers or other implanted devices to enter the Controlled Access Area (within the 5-gauss field). The strong magnetic field could cause such devices to malfunction and pose a risk of serious injury or death to the person.

---

**Warning**

Do not introduce ferromagnetic materials (such as tools, scissors, gurneys, cleaning equipment, and similar items) into the magnetic field. The strong magnetic field can cause these materials to act like projectiles, drawing them into the system. Failure to comply could result in death or serious injury.
**Warning**

Patients requiring emergency treatment or assistance must be removed from the Controlled Access Area. Their proximity to the magnet could prevent the safe and effective use of electronic and/or metallic emergency medical equipment. Failure to comply could result in death or serious injury.

---

**Patient Call Bulb**

*Note:*

*If the patient call bulb is activated, press the TALK button on the control unit to silence the alarm and respond to the patient.*

After positioning the patient on the WIT mobile table and fitting him or her with the appropriate coil and pad(s), you should offer the use of the patient call bulb (figure 2-1). When squeezed, this device alerts you that the patient needs assistance or wishes to communicate during a procedure. Always offer this device to patients, especially those who have hearing impairments.

*Figure 2-1. The patient call bulb.*

For detailed safety information, refer to the *Echelon OVAL Equipment Description and Safety Manual.*
Gantry Control Panels

Two identical control panels are located on the front of the gantry, separated by the WIT gantry monitor (figure 2-2). Scans can be started, aborted, paused, and restarted from inside the scan room by pressing the appropriate button on either control panel.

The buttons and indicators on the gantry control panel are illustrated and described in this section. The button lights indicate operation status.

Figure 2-2. The gantry control panel.
<table>
<thead>
<tr>
<th>Item</th>
<th>Gantry Control Panel Button</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STOP</td>
<td>Emergency table stop button</td>
<td>Quickly stops operation of the patient table and keeps the state of emergency stop until the RELEASE button is pressed. In the state of emergency stop, all control panel buttons are turned off.</td>
</tr>
<tr>
<td>2</td>
<td>MONITOR ON</td>
<td>WIT gantry monitor power button</td>
<td>When pressed, turns the WIT gantry monitor on and displays the “initial screen”. Pressing this button with the WIT gantry monitor on returns the “initial screen” display to the WIT gantry monitor. Note that this button is not used to turn off the WIT gantry monitor. The WIT gantry monitor is automatically powered off when scanning is started or when the system is shut down.</td>
</tr>
<tr>
<td>3</td>
<td>SCAN</td>
<td>Scan status display indicator</td>
<td>Illuminates during scanning operations.</td>
</tr>
<tr>
<td>4</td>
<td>Up button</td>
<td>Scan status display indicator</td>
<td>Moves the focus to the Patient Weight or Patient Orientation box on the WIT gantry monitor’s Patient Information and Patient Orientation screens. Also used to increase the selected weight digit when changing patient weight, move the patient orientation focus to Head First or Feet First, and change the ECG triggering focus to Vx or Vy.</td>
</tr>
<tr>
<td>5</td>
<td>ENTER</td>
<td>Left button</td>
<td>Used to change the screen displayed on the WIT gantry monitor. Also used to select the weight digit when changing patient weight, and move the patient orientation focus to Supine, Prone, Right Decubitus or Left Decubitus.</td>
</tr>
<tr>
<td>6</td>
<td>ENTER</td>
<td>Enter button</td>
<td>Applies the changes made on the various WIT gantry monitor screens.</td>
</tr>
<tr>
<td>7</td>
<td>DOWN</td>
<td>Down button</td>
<td>Moves the focus to the Patient Weight or Patient Orientation box on the WIT gantry monitor’s Patient Information and Patient Orientation screens. Also used to decrease the selected weight digit, change the patient orientation focus to Head First or Feet First, and change the ECG triggering focus to Vx or Vy.</td>
</tr>
<tr>
<td>8</td>
<td>RIGHT</td>
<td>Right button</td>
<td>Used to change the screen displayed on the WIT gantry monitor. Also used to select the weight digit when changing patient weight, and move the patient orientation focus to Supine, Prone, Right Decubitus or Left Decubitus.</td>
</tr>
<tr>
<td>Item</td>
<td>Gantry Control Panel Button</td>
<td>Function</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>---------------------------</td>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>9</td>
<td>+8888</td>
<td>Longitudinal move counter</td>
<td>Indicates the position of longitudinal direction (forward and backward).</td>
</tr>
<tr>
<td>10</td>
<td>CLEAR</td>
<td>CLEAR button</td>
<td>Clears the longitudinal move counter to 0. If CLEAR is pressed during the set mode, the set mode is released.</td>
</tr>
<tr>
<td>11</td>
<td>RELEASE</td>
<td>RELEASE button</td>
<td>Releases the patient table from the state of emergency stop.</td>
</tr>
<tr>
<td>12</td>
<td>Up</td>
<td></td>
<td>When the table is not at the highest position, the IN/UP button functions as an ascending button. As soon as the table reaches the highest position, the laser localizer is lit.</td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td></td>
<td>When the table is at the highest position, the IN/UP button functions as an advance button.</td>
</tr>
<tr>
<td></td>
<td>Forward (slow)</td>
<td></td>
<td>If the IN/UP and OUT/DOWN buttons are pressed at the same time during a forward move, the table moves forward at slow speed.</td>
</tr>
<tr>
<td></td>
<td>Set move</td>
<td></td>
<td>When the target point of the set mode is in the forward direction (when the minus sign in front of the longitudinal move counter digits is not displayed), the laser-localized area of interest is moved to the isocenter of the magnet.</td>
</tr>
<tr>
<td></td>
<td>Speed fixed</td>
<td></td>
<td>If the IN/UP button is pressed again (released once and pressed again right away), the current speed is maintained.</td>
</tr>
<tr>
<td>Item</td>
<td>Gantry Control Panel Button</td>
<td>Function</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------</td>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>13</td>
<td><img src="image" alt="IN/UP OUT/DOWN" /></td>
<td>Backward</td>
<td>When the table is not at the back end of the longitudinal move, the OUT/DOWN button functions as a backward button.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Backward (slow)</td>
<td>If the OUT/DOWN and IN/UP buttons are pressed at the same time during a backward move, the table moves backward at slow speed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set move</td>
<td>When the target point of the set mode is in the backward direction (when the minus sign in front of the longitudinal move counter digits is displayed), the laser-localized area of interest is moved to the isocenter of the magnet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Down</td>
<td>When the table is at the back end, the OUT/DOWN button functions as a descending button. As soon as the lowest position is reached, the laser localizer goes out.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Speed fixed</td>
<td>If the OUT/DOWN button is pressed again (released once and pressed again right away), the current speed is maintained.</td>
</tr>
<tr>
<td>14</td>
<td><img src="image" alt="SET" /></td>
<td>Set mode transit / set move button</td>
<td>Moves the table to position the area of interest at the center of the magnetic field. When the SET button is pressed and held down with the laser localizer on, the location on the table marked by the intersecting laser beams is moved to the center of the magnetic field. When the SET button is pressed and held down without the laser localizer on, the table is moved into the magnetic field until zeros are displayed in the longitudinal move counter. During the set mode, the SET button LED blinks and the longitudinal move counter shows the remaining travel distance. When the table move is complete, the laser localizer goes out.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Speed fixed</td>
<td>If the SET button is pressed again (released once and pressed again right away), the current speed is maintained without acceleration.</td>
</tr>
<tr>
<td>15</td>
<td><img src="image" alt="AUTO" /></td>
<td>AUTO button</td>
<td>Switches the table movement mode between manual and auto.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>When the AUTO button is pressed, it illuminates and the auto mode is enabled. In auto mode, pressing the SET button automatically moves the table to the center of the magnetic field.</td>
</tr>
<tr>
<td>16</td>
<td><img src="image" alt="ILLUMI" /></td>
<td>ILLUMI button</td>
<td>Controls the illumination inside of the gantry. Each press of the ILLUMI button cycles the lighting inside the gantry through five states: All four lights off; all four lights on, but only at 50-percent brightness; all four lights on at 100-percent brightness; only the front two lights on; only the rear two lights on.</td>
</tr>
<tr>
<td>Item</td>
<td>Gantry Control Panel Button</td>
<td>Function</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------</td>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>17</td>
<td>LASER button</td>
<td>LASER button</td>
<td>Switches the laser localizer on or off. When the LASER button is lit, the laser localizer is on. This laser is used for area-of-interest alignment / positioning. When the LASER button is not lit, the laser localizer is off.</td>
</tr>
<tr>
<td>18</td>
<td>START button</td>
<td>START button</td>
<td>Starts, suspends, or resumes the scan.</td>
</tr>
<tr>
<td>19</td>
<td>FAN button</td>
<td>FAN button</td>
<td>Starts / stops ventilation inside the gantry. The fan can be set to high, low, or off.</td>
</tr>
<tr>
<td>20</td>
<td>PAUSE button</td>
<td>PAUSE button</td>
<td>Suspends or resumes the scan.</td>
</tr>
<tr>
<td>21</td>
<td>ABORT button</td>
<td>ABORT button</td>
<td>Stops the scan.</td>
</tr>
</tbody>
</table>
WIT Mobile Table Control Panel

Note:
The WIT mobile table control panel can also be used when the table is docked.

Located on the right side of the WIT mobile table near the handle, the WIT mobile table control panel (figure 2-3) is used to control the table when it is undocked from the gantry. The table is battery powered when undocked. The WIT mobile table battery is charged whenever the table is docked to the gantry.

Figure 2-3. The table control panel.

Caution
A lead storage battery is used in the WIT mobile table. Sudden impact or shock to the WIT mobile table can break the internal lead storage battery and cause battery leakage. Avoid sudden impact or shock, and stepping or standing on the WIT mobile table near the foot pedals.

Warning
Keep open flames away from the WIT mobile table. Hydrogen gas from the internal lead storage battery could ignite and cause serious injury.
<table>
<thead>
<tr>
<th>Button or indicator</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UP</strong></td>
<td><strong>UP</strong></td>
<td>When the table is not at the highest position, this button functions as an ascending button.</td>
</tr>
<tr>
<td><strong>DOWN</strong></td>
<td><strong>DOWN</strong></td>
<td>When the table is not at the lowest position, this button functions as a descending button.</td>
</tr>
</tbody>
</table>
|                    | **Battery level indicator** | When the segments on the indicator light sequentially, the battery is charging.  
When all four segments on the indicator blink simultaneously, the table is communicating with the control unit.  
When on steady, the lit segments indicate remaining battery life as follows:  
- Four segments: 100 - 80 percent  
- Three segments: 79 - 60 percent  
- Two segments: 59 - 40 percent  
- One segment: 39 - 20 percent  
- No segments: 19 - 0 percent |
| **Lock status indicator** | **Lock status indicator** | When lit, indicates the table control panel is locked. When the table control panel is locked, none of the buttons operate.  
When not lit, indicates the table control panel is unlocked and all buttons are functional.  
Pressing the UP and OUT buttons simultaneously for a duration of two seconds unlocks (if locked) or locks (if unlocked) the control panel.  
The control panel is automatically locked when it is not used for approximately one minute. |
| **DOCK**            | **Dock status indicator** | When lit, indicates the table is properly docked to the gantry. When not lit, indicates the table is not docked to the gantry. |
Preparing the WIT Mobile Table

WIT mobile table preparation involves selecting and placing the table pads and the radio frequency (RF) coil(s). The appropriate pads, straps, and coil(s) are essential to acquire optimal images. Follow these steps when preparing the WIT mobile table:

1. Press and hold the OUT/DOWN button to move the tabletop completely out of the magnetic field, then lower the table to a position where the patient can easily sit on it.

2. Select the appropriate table pads and RF receiver coil and position them on the table. Your choice of pads will be affected by three factors: the anatomical region to be imaged, the size of the patient, and the coil you plan to use (figure 2-4).

Note: The tabletop must be moved completely out of the magnet before table height can be adjusted.

Figure 2-4. The various Echelon OVAL table pads, positioning pads, and straps.
The Echelon OVAL system provides complete imaging versatility. Patients can be placed head or feet first into the magnet bore (figure 2-5).

Figure 2-5. Patient oriented feet first (left) and head first (right).

**Table Setting**

In addition to being the patient examination surface, the WIT mobile table can also be undocked from the gantry and used as a gurney for easy patient transport.
Undocking the WIT mobile table

Before the WIT mobile table can be undocked from the gantry, the tabletop must be completely out of the magnet bore and unlatched from the table trolley. The table trolley is what guides the tabletop in and out of the magnet bore (figure 2-6). To unlatch the table trolley, press and hold the OUT/DOWN button on the gantry control panel until the tabletop is completely out of the magnet and starts to lower. When the WIT mobile table starts to lower, it automatically unlatches from the table trolley and the OUT/DOWN button can be released.

The procedure to undock the WIT mobile table is as follows:

1. Make sure the tabletop is completely out of the magnet bore and unlatched from the table trolley.
2. At the rear of the WIT mobile table, use your foot to rotate the caster lock pedal to the horizontal or N (neutral) position. Alternatively, on either side of the WIT mobile table, use your foot to set the caster lock bar to the middle or N (neutral) position. Either method accomplishes the same result.
3. Use your foot to press down on the UNDOCK pedal.
4. Using the table handle, pull the WIT mobile table away from the gantry in a straight line.

Caution

When moving the WIT mobile table, observe the pinch hazard inherent with the table casters. Failure to do so could result in foot injury.
Caution
Whenever the WIT mobile table is undocked from the gantry, do not position the side of the table close to the magnet bore. The table could be forcefully attracted to the magnet, resulting in injury.

Warning
When transporting patients:

- Set the armboards in the vertical position
- Secure the patient with the immobilizing straps
- Do not allow their extremities to stick out beyond the confines of the WIT mobile table

Failure to do so could result in patient falls and injury.

Warning
Do not allow patient extremities, hair, clothing, patient call bulb, etc. to get caught between the WIT mobile table and the gantry, or pinched in the IV pole mounting holes. Failure to do so could result in patient injury.

Steering the WIT Mobile Table
The WIT mobile table casters can be locked or allowed to swivel freely to accommodate various transportation needs. The casters are locked or released with the caster lock bar on either side of the WIT mobile table (or the caster lock pedal at the rear of the WIT mobile table). The position of the caster lock determines how the WIT mobile table responds to pushing and steering efforts:
<table>
<thead>
<tr>
<th>Mode</th>
<th>Caster Lock Position</th>
<th>Caster Status</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>S (steer)</td>
<td>Caster lock bar is in the up position.</td>
<td>The two front casters are locked parallel to the long dimension of the table (not allowed to swivel). The two rear casters are unlocked and free to swivel in all directions. All four casters are able to rotate.</td>
<td>Allows the table to be steered easily without drifting to one side or the other. Best for long-distance, straight-line transport, such as moving down a hallway.</td>
</tr>
<tr>
<td>N (neutral)</td>
<td>Caster lock bar is in the middle position.</td>
<td>All four casters are unlocked and free to swivel in all directions. All four casters are able to rotate.</td>
<td>Allows the table to move freely in all directions. Convenient for quickly changing directions. Best for maneuvering in tight places.</td>
</tr>
<tr>
<td>P (park)</td>
<td>Caster lock bar is in the down position.</td>
<td>All four casters are locked (not allowed to swivel). All four casters are prevented from rotating.</td>
<td>Allows the table to be held stationary for patient loading/unloading and scanning.</td>
</tr>
</tbody>
</table>
Docking the WIT Mobile Table

1. Using the table handle, push the WIT mobile table in a straight line towards the gantry.

2. Align the docking mechanism on the lower front end of the WIT mobile table with the docking module on the lower front of the gantry (figure 2-7).

3. Guide the WIT mobile table straight into the gantry docking module and push the table as far as it will go into the gantry docking module.

4. Using your foot, press down on the DOCK1 pedal (figure 2-8). This mechanically docks the WIT mobile table to the gantry. When docking the table, always press down on the DOCK1 pedal first.

Note: The order in which the docking pedals are pressed is important. When docking the WIT mobile table to the gantry, always press down the DOCK1 pedal first, before pressing down the DOCK2 pedal. The DOCK2 pedal mechanism will not engage without DOCK1 engaged.

Figure 2-7. Aligning the WIT mobile table with the gantry during the docking process.

Figure 2-8. Mechanically docking the WIT mobile table to the gantry.
5. Using your foot, press down on the DOCK2 pedal (figure 2-9). This electronically docks the WIT mobile table to the gantry.

![Figure 2-9. Electronically docking the WIT mobile table to the gantry.](image)

Docking is complete when the DOCK indicator on the WIT mobile table control panel illuminates. If the DOCK indicator does not illuminate, pull the WIT mobile table away from the gantry, realign the gantry and repeat steps two through five above.

6. Using your foot, place the caster lock bar (or the caster lock pedal) in the P position.

**Using the WIT Mobile Table Armboards**

The WIT mobile table armboards, stored on both sides of the WIT mobile table when not in use (figure 2-10), can be unlatched and rotated into horizontal or vertical positions.

![Figure 2-10. The WIT mobile table armboards shown in the stored position.](image)
**Caution**

When supporting the patient’s arm with the armboard, always use the horizontal position. Do not use the armboard in the horizontal position for any purpose other than to support the patient’s arm. Failure to do so could result in armboard damage. Do not overload the armboard. Maximum load is 66 lbs. (30 kg).

**Horizontal position**

To place the armboard in the horizontal position:

1. Squeeze the latch (figure 2-11) to release the armboard from its current position.

![Figure 2-11. Releasing the armboard latch.](image)

2. Rotate the armboard to the horizontal position (figure 2-12) and release the latch.

![Figure 2-12. Armboards in the horizontal position.](image)
Vertical position
To place the armboard in the vertical position:

1. Squeeze the latch (figure 2-11) to release the armboard from its current position.

2. Rotate the armboard to the vertical position (figure 2-13) and release the latch.

Caution
Do not use the armboards to steer the WIT mobile table during transport. Doing so could damage the armboards.

Positioning the Patient for an Examination in the Magnet

Patient positioning involves using a variety of table and patient positioning pads, placing the RF coil(s) on or around the patient in a variety of ways, and properly centering the anatomical region to be imaged. Although each patient and examination are different, the basic patient positioning procedures remain the same.

Using Pads

Various table pads and positioning pads and sponges are available for use with the Echelon OVAL MRI System. In addition to providing some degree of comfort for the patient, the pads help to support and position both the patient and the coil. Pads can be used in a variety of combinations, depending upon the region of interest, the coil you plan to use, and the size of the patient. The detailed positioning instructions in the next chapter will suggest the appropriate pads to use under many circumstances.
For patient comfort, use the knee cushion with virtually all scans when the patient is supine (except hip imaging). When a patient is prone, Hitachi recommends placing a pillow under the ankles.

Do not use too many pads, as this might raise the patient too high in the static field.

**Cleaning Coils and Pads**

If equipment is contaminated with blood or other potentially infectious material, the equipment must be decontaminated according to Occupational Safety and Health Administration (OSHA) regulations.

Protect equipment from contamination whenever possible by using careful work practices. Such work practices should include:

- Avoid touching the equipment unnecessarily during care delivery, especially with contaminated hands or gloves.
- Positioning equipment to avoid contact with anticipated spatter.
- Avoid laying contaminated items on unprotected equipment surfaces.
- Use barriers on equipment surfaces that you expect to touch with contaminated hands or when contact with spatter cannot be avoided.

The following solutions are recommended for cleaning the coil and pad surfaces:

- 10-percent bleach solution (some discoloration may occur).
- One ounce of commercial dishwashing liquid mixed with one gallon of water.
- Warm water.

Apply the cleaning solution to a soft cotton cloth and clean the surface.

Be sure to thoroughly wipe or rinse the solution off the pad after cleaning. Avoid excessive moisture. Immersing the pads in water is not recommended. If such action is necessary, allow the pads to dry thoroughly before using them again. Do not allow moisture to migrate from a pad to one of the coils.

The coil housings are designed to minimize moisture and fluid entry. To avoid possible coil damage during or following cleaning, do not soak the coil or apply excess water to the connector areas, patient pads, or VELCRO® straps.

For more information on protecting yourself and others from the risk of bloodborne pathogens, visit the OSHA Bloodborne Pathogens and Needlestick Prevention website at [www.osha.gov/SLTC/bloodbornepathogens/index.html](http://www.osha.gov/SLTC/bloodbornepathogens/index.html). This site contains the OSHA Bloodborne Pathogens Standard, letter of interpretation, and compliance directive.

For more information on using cleaners and disinfectants on medical equipment, visit the Food and Drug Administration (FDA) website at [www.fda.gov/cdrh/safety/103107-cleaners.html](http://www.fda.gov/cdrh/safety/103107-cleaners.html).

Velcro is a registered trademark of Velcro Industries B.U.
Caution
Secure long hair before moving the patient onto the imaging table. The patient’s hair could become caught in the tabletop mechanism. Failure to comply could cause patient injury.

1. Press and hold the OUT/DOWN button to move the tabletop completely out of the magnet. Keep holding the OUT/DOWN button to lower the table to a height where the patient can easily get on.

2. Ask the patient to sit on the side of the table and then lie down.

3. Hand the patient call bulb to the patient and explain/demonstrate its use.

4. Press and hold the IN/UP button until the tabletop reaches scanning height (the laser localizer beams illuminate).

5. Fit the patient with the appropriate coil. Position the anatomical region in the center of the selected RF coil. Add positioning pads and sponges as needed.

Warning
Make sure that all coils placed on the WIT mobile table are plugged into a table connector. Disconnected coils could cause patient injury or be damaged if exposed to RF energy. Remove any coils not being used for the selected scan protocols.

Caution
Some coils consist of two parts that lock together. Be sure that the patient’s hair, skin, clothing, and/or other foreign material does not get caught between the two coil parts.

Warning
Instruct the patient to close his or her eyes when the lasers are on. Do not stare into the beam, as eye injury may result.
6. Press and hold the IN/UP button to center the transaxial alignment beam of the laser localizers to the patient’s anatomical region to be imaged.

7. Connect the receiver coil cable(s) to the table connector(s). A total of seven table connectors are available on the WIT mobile table—two at the head, two at the foot, and three spine-coil-specific in the middle of the table (figure 2-14). Figure 2-15 shows the table connector positions and their corresponding display positions on the WIT gantry monitor. When making multiple connections, avoid crossing the coil cables. If possible, keep the cables fully extended and running parallel to each other.

**Note:**
Many of the Echelon OVAL RF receiver coils have a transaxial mark to assist in centering the anatomical region.

![Figure 2-14. The coil connectors on the WIT mobile tabletop.](image1)

![Figure 2-15. Table connector positions and corresponding display positions on the WIT gantry monitor.](image2)
Completing the Exam

**Caution**
Avoid loops in the cable. Place any excess cable between the tabletop and the pads. Prevent the cable from touching the patient or any part of the magnet bore.

8. Advance the tabletop into the gantry. There are two “modes” for setting the tabletop in (or out of) the gantry:

**Manual mode**
Press and hold the SET button on the gantry control panel until the tabletop advances to the magnet’s isocenter and stops. The imaging region centered under the lasers is now in the center of the magnetic field and the longitudinal move counter display on the gantry is zero.

**Auto mode**
Press and release the AUTO button on the gantry control panel then press and release the SET button on the gantry control panel. The tabletop automatically advances to the magnet’s isocenter (the center of the magnetic field) and stops. The imaging region centered under the lasers is now in the center of the magnetic field and the longitudinal move counter display on the gantry is zero.

**Caution**
When moving the patient into the magnetic field, do not allow the receiver coil cable to loop, wind around the patient’s body, or catch on the WIT mobile table.

**Completing the Exam**

1. When the exam is complete, press and hold the OUT/DOWN button to move the tabletop completely out of the magnet. Keep holding the OUT/DOWN button to lower the table to a height where the patient can easily get off the table.

2. Remove the coil(s) from the patient and assist the patient off of the table.
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