

**1.5T ADNI GE 12.0 M3 Software, QC Phantom**  
**TwinSpeed Gradient and 8-channel Brain Coil**

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Set up the phantom according to the ADNI instruction manual. Use the 8-channel brain coil.

Use the electronic ADNI protocol that has been loaded on your scanner.

**NOTE: The "adni" pulse sequence used for series 2 is a works in progress pulse sequence that ADNI sites obtain from GE Healthcare.**

|               |                           |                           |                                  |                         |                           |  |
|---------------|---------------------------|---------------------------|----------------------------------|-------------------------|---------------------------|--|
| <b>SERIES</b> | 1. 3 plane loc.           | scan plane<br>mode<br>SAT | <i>IMAGING PARAMETERS</i>        |                         | <i>ACQUISITION TIMING</i> |  |
|               | coil<br>8hrbrain          |                           | 3-plane<br>(Whole Body gradient) | matrix/nex              | 256 / 128 / 1             |  |
|               | etl                       |                           |                                  | fov (cm)                | 26                        |  |
|               | scan time<br>:13          |                           |                                  | slice/space<br>autoshim | 5 / 5<br>On               |  |
| comments      | Use 8-channel brain coil. |                           |                                  |                         |                           |  |

|                      |                                |  |                              |  |                           |  |
|----------------------|--------------------------------|--|------------------------------|--|---------------------------|--|
| <b>SERIES</b>        | 2. Sag MPRAGE                  | scan plane<br>mode<br>pulse seq<br>image opts.<br>psd name<br><br>User CVs | <i>IMAGING PARAMETERS</i>    |  | <i>ACQUISITION TIMING</i> |  |
|                      | coil<br>8hrbrain               |  | Sag<br>3D ( ZOOM gradient)   | matrix/nex   | 192 / 192 / 1             |  |
|                      | #echos<br>te                   |  | SPGR                         | phase fov<br>locs/pause                              |                           |  |
|                      | Prep time<br>flip angle<br>etl |  | EDR, IrPrep, Fast<br>adni    | freq. direct.<br>fc direct<br>phase corr<br>autoshim | S/l<br><br>On             |  |
| bw1/bw2<br>scan time | 1000<br>8<br>15.63<br>7:42     |  | <i>ADDITIONAL PARAMETERS</i> |  | <i>SCANNING RANGE</i>     |  |
|                      |                                |  | turbo mode = 1               | fov  | 24                        |  |
|                      |                                |  | swap fat chem shift = 1      | slice/space  | 1.3mm 170 locs/slab       |  |
|                      |                                |  | slice resolution = 100%      |  |                           |  |
|                      |                                |  | mprage mode = 1              |  |                           |  |
|                      |                                |  | TD or mprageTR=2400          |  |                           |  |
| comments             | Cover the phantom              |  |                              |  |                           |  |