

IGBTs and Matrix Torque Values

Figure 33 illustrates the locations of the fasteners that require careful torquing on the IGBTs and the matrix. Table 3 lists the torque values for those fasteners.



Figure 33 GT100-480 torque locations—IGBTs and matrix

Table 3 GT100-480 torque values—IGBTs and matrix

| Location (see Figure 32) | Description          | Hardware | Quantity | Torque Value       |
|--------------------------|----------------------|----------|----------|--------------------|
| 5                        | IGBT1 mounting bolts | M6       | 4        | 5 Nm (3.7 lb-ft)   |
|                          | IGBT2 mounting bolts | M6       | 4        |                    |
|                          | IGBT3 mounting bolts | M6       | 4        |                    |
|                          | IGBT4 mounting bolts | M6       | 4        |                    |
|                          | IGBT5 mounting bolts | M6       | 4        |                    |
|                          | IGBT6 mounting bolts | M6       | 4        |                    |
| 5                        | IGBT1-2 bus bar      | M6       | 2        | 4.5 Nm (3.3 lb-ft) |
|                          | IGBT3-4 bus bar      | M6       | 2        |                    |
|                          | IGBT5-6 bus bar      | M6       | 2        |                    |

**Table 3** GT100-480 torque values—IGBTs and matrix

| Location (see Figure 32) | Description           | Hardware | Quantity | Torque Value     |
|--------------------------|-----------------------|----------|----------|------------------|
| 5                        | IGBT1-2 bus bar cable | M10      | 2        | 34 Nm (25 lb-ft) |
|                          | IGBT3-4 bus bar cable | M10      | 2        |                  |
|                          | IGBT5-6 bus bar cable | M10      | 2        |                  |
| 6                        | Matrix #1 (+)         | M10      |          | 34 Nm (25 lb-ft) |
|                          | Matrix #1 (1)         | M10      |          |                  |