TOSHIBA

ASD-ISO-01 Installation Procedure

The **AM/FM/II Isolation PCB** (P/N 48576) was designed to provide isolation of the **Control Board** output circuit from the **AM/FM** output and from the **II** input. This is carried out using the ISO124 precision isolation amplifier which transmits its input digitally to its output via a 2 pF capacitive barrier. With digital modulation, the barrier characteristics do not affect signal integrity, resulting in excellent reliability and good high frequency transient immunity across the barrier. The **AM/FM** isolation function is capable of either 0–1 mA, 4–20 mA operation, or a volt meter set to 7.5 VDC full scale may be used. The **AM/FM/II Isolation PCB** replaces the **Jumper PCB** (P/N 50611).

The **AM/FM/II Isolation PCB** is used to enhance the many powerful features of the G7 ASD and connects to the **Control Terminal Strip PCB** of the G7 ASD.

The **AM/FM/II Isolation PCB** is mounted using the JP07 – JP12 connectors of the **AM/FM/II Isolation PCB.** The JP07 – JP12 male connectors of the **AM/FM/II Isolation PCB** mate with the female connectors of the **Control Terminal Strip PCB**.

Installation

Caution!

Note: This procedure should be performed by properly trained personnel only.

1. Lock and tagout all applicable power sources.
2. Ensure that power has been removed from the G7 ASD and that the **Power** and **Charge** LEDs are off.
3. Carefully remove the **Jumper PCB** (P/N 50611) from the **Terminal Strip PCB** of the G7 ASD, ensuring that the board-mounted female connectors of the **Terminal Strip PCB** are not bent during the removal process.
4. Place the supplied **Nomex** paper (P/N 51892) onto the bottom side of the **AM/FM/II Isolation PCB**. Align the cutouts of the **Nomex** paper with the male pins of the **AM/FM/II Isolation PCB**.
5. Align the pins JP07 – JP12 of the **AM/FM/II Isolation PCB** with the holes of the female connectors of the **Terminal Strip PCB** and press into place.

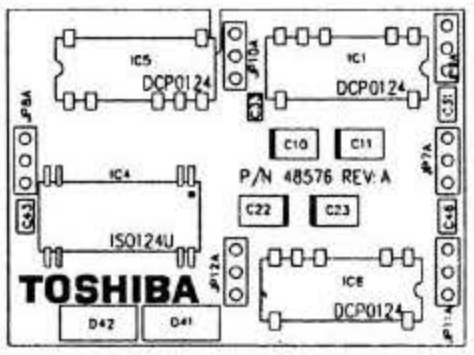
Once the **AM/FM/II Isolation PCB** has been properly pressed into place, normal G7 operation may be resumed.

For further information on the G7 ASD functions and parameters, see the *G7 Adjustable Speed Drive Operation Manual* (P/N 51546).

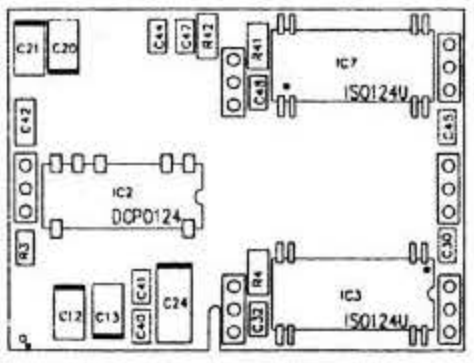
Note: If using revision A, B, or C of the control PCB, the additional current required by this option may trip resettable fuse FU1 on the control PCB. If FU1 trips, replace fuse FU1 with a jumper.

Specifications/Layout

Isolation Voltage	Maximum Load
$T_A = 25°$ C	
750 VRMS	500 Ω



Primary Side



Secondary Side