



## **dmCRAC Antenna Upgrade Kit Installation Instructions**



## Installing the dmcRAC

The dmcRAC is only required when using a dmc1 master for a retrofit application. The dmcRAC is not required on the dmc3-4 retrofit master.

Tools required:

- #1 Phillips screwdriver

To install the dmcRAC you must first remove two screws from the dmc1 master on either side of the antenna connections. Refer to Figure 1 for screw locations.

Then place the dmcRAC board over the AM and FM antenna positions lining the connectors up with the antenna inputs. Make sure to push in the antenna tabs while inserting the AM connections. Once the connectors are aligned push the

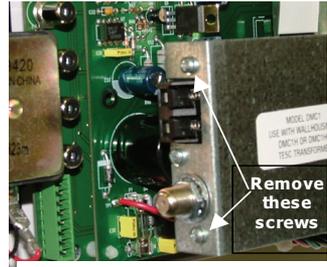


Figure 1 - dmcRAC installation

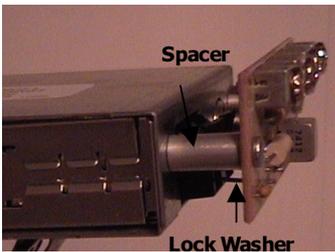


Figure 2 - Installed dmcRAC

antenna board into place.

After the antenna board is in position, use the enclosed screws, spacer and washer to connect the board. Position the lock washer on the spacer and insert between the antenna board and the open screw hole on the dmc1. Make sure the lock washer is between the board the spacer. Use the enclosed screw to fasten the spacer in place. Repeat with both sides of the dmcRAC board. Refer to Figure 2 for completed board installation.

## Connecting the Antenna

Separate the intercom cables from the antenna leads, if grouped together the intercom cables can shield the antenna leads resulting in poor radio reception. Keep the antenna leads away from metal ductwork and aluminum backed insulation. These can also shield the antenna leads.

The number and style of antenna leads will vary based on the intercom system being replaced. The dmc3-4 system is designed to use the existing antenna.

Follow the steps below to attach a NuTone 300 Ohm twin lead antenna to the dmc3-4.

1. If the antenna has a plug on the end, cut the plug off
2. Strip the 2 wire ends
3. Connect the wire ends to terminal S1 and S2 on the antenna board
4. Connect a bare jumper wire (a 22 gauge speaker wire works well) between the S3 and S4 terminals.

Follow the steps below to attach a separate AM/FM antenna system with 300 Ohm FM twin lead and orange AM antenna wire:

1. Connect the FM twin leads to terminal S1 and S2 on the board
2. Connect the AM antenna (orange wire) to terminal S4
3. Terminal S3 is not used in this configuration

Follow the steps below to connect a single orange wire antenna system:

1. Connect the orange wire to either S1 or S2. Note do not connect the wire to both S1 and S2 doing this will short out the FM antenna signal.
2. Connect a bare jumper wire (a 22 gauge speaker wire works well) between the S3 and S4 terminals.

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