Introduction

ADVANCED Motion Controls® AxCent™ servo drives are designed to operate in high performance applications requiring a linear response through zero current command. The result is the drive PWM output remains operational when the commanded current is near zero.

This behavior can be undesirable in applications that are low-inertia or sensitive to audible noise at low commands. For such applications, an output deadband near zero current command may be required.

Procedure

Note: Any damage done to the board during modification will void the product warranty!

To activate the deadband function, an SMT resistor (RE43) must be removed from the drive PCB. The following figures show locations of RE43 for different AxCent models, as well as expanded zoom views of the SMT resistor locations. Use a soldering iron to carefully remove RE43.

This procedure describes the steps for configuring various AxCent servo drive models to add a deadband around the zero current command.
Figure 2a RE43 Location

Figure 3a RE43 Location

Figure 2b RE43 Expanded Location

Figure 3b RE43 Expanded Location