

SPINDLE KEYWAY INTERFERENCE WITH AXLE FASTENER TANG

STEMCO HAS BEEN NOTIFIED OF AN INTERFERENCE ISSUE BETWEEN THE ZIP-TORQ OR AUTO-TORQ AXLE FASTENER AND SOME SPINDLE KEYWAYS THAT HAVE BEEN CUT DIFFERENTLY THAN MOST STANDARD APPLICATIONS.

The issue arises when the Zip-Torq or Auto-Torq tang “bottoms out” on either the base or the back of the keyway on the spindle. Figure 1 shows an interference example at the back, and Figure 2 shows an interference example at the base. Always check endplay with a dial indicator to ensure 0.001-0.005” is achieved for Zip-Torq or 0.000” is achieved for Auto-Torq. If excessive endplay occurs, first verify that the spindle threads, bearing journals, and seal shoulder are properly cleaned to allow full seating of the wheel end. If excessive endplay persists, there may be interference between the spindle keyway and the tang of the Zip-Torq or Auto-Torq axle fastener.

In the case of interference, STEMCO recommends switching from the Zip-Torq or Auto-Torq axle fastener to the Pro-Torq axle fastener.

FIGURE 1. KEYWAY PROFILE EXAMPLE 1



Keyway is consistent depth throughout, rounded at the back. Contact would be on the corners of the locking tab (and the walls of the keyway)

FIGURE 2. KEYWAY PROFILE EXAMPLE 2



Keyway is shallower at the back. Contact would be at the base of the locking tab (and the root of the keyway)

UNITED STATES
800-527-8492 | 903-758-9981
300 Industrial Drive
Longview, Texas 75602 | US
4641 Industrial Drive
Millington, Michigan 48746 | US

CANADA
877-232-9111 | 905-206-9700
1020 Lorimar Drive
Mississauga, ON L5S 1R8 | Canada
MEXICO | 444-804-1736
Eje Central Sahop No 215, Zona Ind
San Luis Potosí SLP 78395 | Mexico

AUSTRALIA, NEW ZEALAND, PAPUA
011-61-2-9793-2599
2/198 Walters Road
Arndell Park NSW 2148 | Australia


STEMCO®
Making the Roadways Safer®