Technical Bulletin Technical Bul

NABCO ENTRANCES TECHNICAL BULLETIN

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Relocation of Motor Fuse on GT300/400/500/8300/8400/8500 Swing Operators with Magnum-4 Controls

Issue:

In some instances the in-line motor protector fuse link located on the motor wires of a Gyro Tech swing operator can blow resulting in the door closing fast without electronic braking. With the fuse blown, braking is disabled even when the door is used manually. A picture of the inline motor protector fuse is shown in Illustration # 1 below. The cause appears to be related to activation of the door while it is locked or in some way prevented from opening. Lowering the settings for door opening speed, and increasing the Recycle sensitivity (by adjusting the current limit potentiometer counter clockwise) will help prevent fuse failure.

Resolution:

Refer to Illustration # 2 below. To resolve the issue of controlling a closing door in the event of a blown fuse, NABCO has relocated the fuse from the motor harness to the brake module harness. The harness plugs into motor connector J5 on the Magnum control. The other end of the harness connects to the terminal block on the brake module. The remaining quick disconnects on the motor harness can then be plugged together as shown in Illustration # 2. The brake module will now continue to control the door while closing even if the fuse blows. This change is already in effect on swing operators shipping from the factory. In the near future the fuse will be wired directly to the terminal block for ease of assembly and additional robustness.

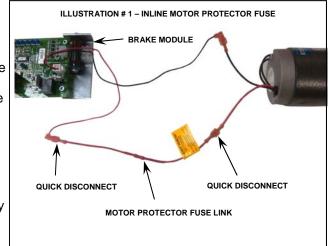
Notes:

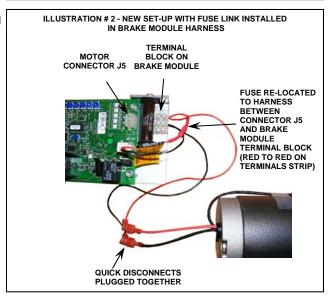
- 1. GT-710's are not affected by this change since the door closing speed is controlled by the hydraulic closer.
- Implementation of the fuse to all Gyro Tech GT-300, GT-400, GT-500, GT-8300, GT-8400, & GT8500 Swing Operators with Magnum-4 Controls was put into place on July 14, 2009. This motor fuse is required for compliance to the latest revisions to UL standards.

To prevent the possibility of the loss of door braking on closing, NABCO strongly recommends removing the fuse from the motor wires on all existing installations after this date and replacing it with a retrofit harness to the brake module as shown below.

This retrofit harness is available from NABCO at no charge.







Page 1 of 1

Bulletin Number: 46

15-9537-46 Technical Bulletin Technical Bulletin Technical Bulletin Technical Bulletin Technical Bulletin Technical Bulletin