

Technical Bulletin

MHS Counterbalance Cable Replacement and Tensioning Instructions

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Our Technical Bulletins are provided to inform you of design options, design improvements, standard sizes and changes, different models, applications, installation, operation and maintenance.

To replace counterbalance cable with tension on spool (cable extended):

1. Using a device like a vise, clamp the spool housing in place
2. Pull the cable out to its full length, then allow it to retract until the cable retaining hole in the spool is visible
3. Lock the spool in place (using a clamp or similar device)
4. Release tension on the cable
5. Slip the cable retainer from its retaining hole
6. Replace with a new cable (Note: If rubber sleeve is still intact, cut and remove)
7. Be sure cable end is secured (retainer) to prevent the spool from unwinding when the clamp is released (see **Note** at end of page)
8. Grip the cable, and while maintaining tension on the cable, release the clamp from the spool and allow the spool to slowly rewind
9. If tension needs to be adjusted, see instructions below

To replace counterbalance cable with no tension on spool (cable retracted):

1. Using a device like a vise, clamp the spool housing in place
2. Without pulling the cable out, lock the spool in place (using a clamp or similar device)
3. Once the spool is clamped and held in position, manually unwind the cable by un-looping from around the spool (Note: If rubber sleeve is still intact, cut and remove)
4. Slip the cable retainer from its retaining hole
5. Replace with a new cable (Note: the internal spring may require the spool to be slightly wound to allow for copper cable retainer insertion into the retaining hole)
6. With the clamp still holding the spool in position, manually rewind the cable around the spool (Note: If rubber sleeve is still intact, cut and remove)
7. Be sure cable end is secured (retainer) to prevent the spool from unwinding when the clamp is released (see **Note** at end of page)
8. Release the clamp from the spool
9. If tension needs to be adjusted, see instructions below

To add tension to spool:

1. Be sure cable end is secured (retainer) to prevent the spool from unwinding until spool is safely clamped (see note at end of page)
2. Using a device like a vise, clamp the spool housing in place
3. Pull cable until spool makes one full revolution
4. Lock the spool in place (using a clamp or similar device)
5. Remove retainer from cable end and manually wind cable around spool one revolution
6. Replace retainer on cable
7. Release the clamp from the spool
8. Repeat these steps if more tension is required

To remove tension from spool:

1. Be sure cable end is secured (retainer) to prevent the spool from unwinding until spool is safely clamped (see note at end of page)
2. Using a device like a vise, clamp the spool housing in place
3. Lock the spool in place (using a clamp or similar device)
4. Remove retainer from cable end and manually unwind cable around spool one revolution
5. Replace retainer on cable
6. Grip the cable, and while maintaining tension on the cable, release the clamp from the spool and allow the spool to slowly rewind
7. Repeat these steps if less tension is required

Note: Once the rubber sleeve has been removed from the cable, the cable end will need to be secured (until installed to shutter) using a retainer to prevent the spool from unwinding when the cable is released. A simple method would be something easily installed and removed, such as a bolt and nut through the cable eyelet. For all installations, the rubber sleeve must be removed prior to door operation.

Please provide this information to your engineering, manufacturing, sales and marketing departments, and to your dealers.

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