

HARKEN®

INSTRUCTIONS

Mini-Maxi End Controls: 1702, 1707, 3069
Maxi End Controls: 662, 3071

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Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See www.harken.com for additional safety information.

Mount Mini-Maxi End Controls

1702

1. Drill $33/64$ " (13.50mm) clearance holes for $1/2$ " (13 mm) machine screws through track and deck. Locate at $3/4$ " (19.05 mm) and $2 1/4$ " (57.15 mm) from end of track.
2. Slide end control onto track.
3. Through-bolt. Use $1/2$ " (13 mm) SS flathead machine screws*.

1707

1. Remove padeye from end control (screws are loose).
2. Drill $33/64$ " (13.50 mm) clearance holes for $1/2$ " (13 mm) SS machine screws through track and deck. Locate at $1 1/2$ " (38.1 mm) and 3" (76.2 mm) from track end.
2. Slide end control onto track.
3. Through-bolt. Use $1/2$ " (13 mm) SS flathead machine screws*.
4. Mount padeye. Use $5/16$ " flathead machine screws and Loctite® provided.

3069

1. Remove block from end control (bolts are loose).
2. Drill $33/64$ " (13.50mm) clearance holes for machine screws through track and deck. Locate at $1 1/2$ " (38.1 mm) and $3 1/8$ " (79.38 mm) from end of track.
2. Slide end control onto track.
3. Through-bolt using $1/2$ " (13 mm) SS flathead machine screws*.
4. Mount block. Use $1/4$ " (6 mm) flathead machine screws and Loctite® provided.

*Be sure to use marine bedding compound.

Mount Maxi End Controls

662

1. Drill $4\frac{1}{64}$ " (16.50 mm) clearance holes for $\frac{5}{8}$ " (16 mm) machine screws through track and deck. Locate at 1" (25.40 mm) and 3" (76.20 mm) from end of track.
2. Slide end control onto track.
3. Through-bolt. Use $\frac{5}{8}$ " (16 mm) SS flathead machine screws*.

3071

1. Remove block from end control (bolts are loose).
 2. Drill $4\frac{1}{64}$ " (16.50 mm) clearance holes for $\frac{5}{8}$ " (16 mm) machine screws through track and deck. Locate at 2" (50.80 mm) and 4" (101.60mm) from end of track.
 2. Slide end control onto track.
 3. Through-bolt. Use $\frac{5}{8}$ " (16 mm) SS flathead machine screws*.
 4. Mount block. Use $\frac{5}{16}$ " (31 mm) flathead machine screws and Loctite® provided.
- *Be sure to use marine bedding compound.

Inspect

Frequently inspect shackles and control block fittings for signs of fatigue and replace as necessary. Make sure every installation includes Harken track end stops. Arrange control tackle so cars do not hit end stops under load.

Maintenance

Traveler Cars: Clean by frequently flushing with fresh water. Periodically clean cars by squirting a detergent/water solution into car's center openings. Roll car back and forth to distribute evenly then flush bearings with fresh water. This maintenance is very important, particularly when cars haven't been in use. Do not use spray lubricants because ball bearings may skid instead of roll. Apply a couple of drop to each ball race. Roll car back and forth through OneDrop™ several times to distribute onto bearings. Too much oil attracts dirt.

Track: Clean with detergent and water.

IMPORTANT! Exposure to some teak cleaners and other caustic solutions can result in discoloration of part and is not covered under the Harken warranty.



Warranty

For additional safety, maintenance and warranty information see www.harken.com/ manuals or the Harken® catalog.