

HARKEN®

INSTALLATION SHEET

Mini-Maxi End Controls: 1702, 1707, 3069

Maxi End Controls: 662, 3071

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Mounting Mini-Maxi End Controls

1702

1. Drill $\frac{33}{64}$ " (13.50mm) clearance holes for $\frac{1}{2}$ " (13mm) machine screws through track and deck. Locate at $\frac{3}{4}$ " (19.05mm) and $2\frac{1}{4}$ " (57.15mm) from end of track.
2. Slide end control onto the track.
3. Through bolt using $\frac{1}{2}$ " (13mm) diameter stainless steel flathead machine screws. Be sure to use marine bedding compound.

1707

1. Remove padeye from end control (screws are loose).
2. Drill $\frac{33}{64}$ " (13.50mm) clearance holes for $\frac{1}{2}$ " (13mm) machine screws through track and deck. Locate at $1\frac{1}{2}$ " (38.1mm) and 3" (76.2mm) from end of track.
2. Slide end control onto the track.
3. Through bolt using $\frac{1}{2}$ " (13mm) diameter stainless steel flathead machine screws. Be sure to use marine bedding compound.
4. Mount padeye using $\frac{5}{16}$ " flathead machine screws provided. Be sure to use Loctite® provided.

3069

1. Remove block from end control (bolts are loose).
2. Drill $\frac{33}{64}$ " (13.50mm) clearance holes for machine screws through track and deck. Locate at $1\frac{1}{2}$ " (38.1mm) and $3\frac{1}{4}$ " (82.55mm) from end of track.
2. Slide end control onto the track.
3. Through bolt using $\frac{1}{2}$ " (13mm) diameter stainless steel flathead machine screws. Be sure to use marine bedding compound.
4. Mount block using $\frac{1}{4}$ " flathead machine screws provided. Be sure to use Loctite® provided.

Mounting Maxi End Controls

662

1. Drill $\frac{41}{64}$ " (16.50mm) clearance holes for $\frac{5}{8}$ " (16mm) machine screws through track and deck. Locate at 1" (25.40mm) and 3" (76.20mm) from end of track.
2. Slide end control onto the track.
3. Through bolt using $\frac{5}{8}$ " (16mm) diameter stainless steel flathead machine screws. Be sure to use marine bedding compound.

3071

1. Remove block from end control (bolts are loose).
2. Drill $\frac{41}{64}$ " (16.50mm) clearance holes for $\frac{5}{8}$ " (16mm) machine screws through track and deck. Locate at 2" (50.80mm) and 4" (101.60mm) from end of track.
2. Slide end control onto the track.
3. Through bolt using $\frac{5}{8}$ " (16mm) diameter stainless steel flathead machine screws. Be sure to use marine bedding compound.
4. Mount block using $\frac{5}{16}$ " flathead machine screws provided. Be sure to use Loctite® provided.

Maintenance

Keep traveler cars clean by frequently flushing with fresh water. Periodically clean cars by squirting a detergent/water solution into the car's center openings. Roll the car back and forth to distribute evenly and then flush bearings with fresh water. This maintenance is very important, particularly when the cars haven't been in use.

Do not use spray lubricants because ball bearings may skid instead of roll. If you use a light machine oil such as 3-in-1, use only a single drop in each ball race. Too much oil attracts dirt.

Clean track with detergent and water.

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

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

Warranty

See Harken catalog for full maintenance and warranty information.