

# HARKEN®

## INSTRUCTION SHEET

### Big Boat CB Traveler Cars

3160/3161/3163/3164/3165/3166/3167/3172

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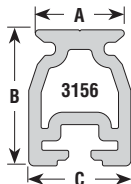
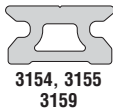
**Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See [www.harken.com/manuals](http://www.harken.com/manuals) for additional safety information.**

## CB CARS ONLY ROLL ON CB TRACK

Car	Car Width	Track
Big Boat	3 <sup>3</sup> / <sub>8</sub> " (85 mm)	3154/3155/3156/3159

**Note: Track not shown actual size**

Part No.	A in mm	B in mm	C in mm
3154, 3155, 3159	1 <sup>1</sup> / <sub>4</sub> 32	3 <sup>3</sup> / <sub>4</sub> 19	1 <sup>5</sup> / <sub>8</sub> 42
3156	1 <sup>1</sup> / <sub>4</sub> 32	2 <sup>1</sup> / <sub>4</sub> 57	1 <sup>3</sup> / <sub>16</sub> 30



### Installing Traveler Car on Track

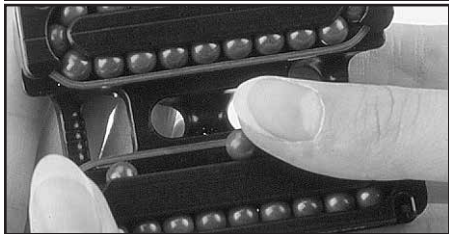
Position car at end of track and gently roll on. Car should roll on easily, if not check to make sure you are using CB track. **Do not remove ball retaining wires.** Cars will not roll unless they have retaining clips.

### Removing Ball Bearings from CB Cars



Position the car on edge and gently push one ball at a time from the center of the retaining clip. **Do not remove the retaining clip from the car!**

## Loading Ball Bearings into CB Cars



Position car on edge with retaining clip in place. Gently push one ball at a time into car from center of clip. Allow balls to roll into return race and insert remaining balls.

***Do not overfill the car!***

### Ball Replacement Chart

Car	Series	Balls/Car	Balls	Order	Balls/Set	Ball Ø
3160/3163/3164	3000	50	Torlon	547	25	$\frac{3}{8}$ "(10mm)
3161/3165/3166	4500	72	Torlon	547	25	$\frac{3}{8}$ "(10mm)
3172	2 x 4500	144	Torlon	547	25	$\frac{3}{8}$ "(10mm)
3167	5000	90	Torlon	547	25	$\frac{3}{8}$ "(10mm)

## 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 car by squirting a detergent/water solution into center openings. Roll car back and forth to distribute evenly then flush bearings with fresh water.

Do not use spray lubricants because ball bearings may skid not roll. Apply one to two drops of McLube® OneDrop™ to ball contact surfaces of track. Roll car back and forth through OneDrop™ several times to distribute onto bearings. Wipe remaining OneDrop™ off track. OneDrop™ is preferred but you can also use one to two drops of a light machine oil. 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](http://www.harken.com) or the Harken® catalog.