

HARKEN®

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INSTRUCTIONS

Big Boat High-Load End Controls and Trim Caps

End Controls: 3173, 3174 • Track: 3154, 3155, 3159, 3162, 1846, R32, 3156, R32HB
Trim Caps: 3157, 3158



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

IMPORTANT: See Inspection and Maintenance at end of manual.

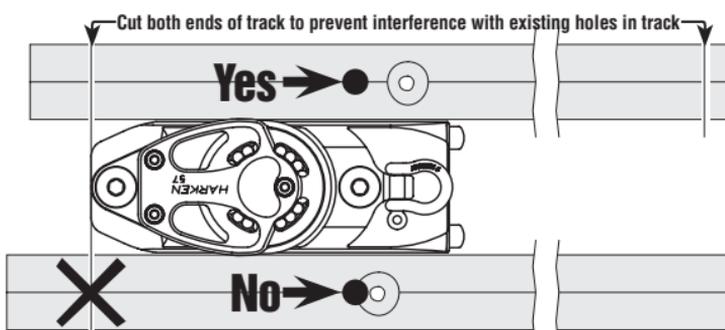
Note: 3173, 3174 end controls do not fit older non-CB track. The interior ridges that extend into the waist of the track are too deep to fit non-CB track. 3173 and 3174 controls require track with deep grooves for the wire keepers used on CB cars.

Read instructions Before You Cut, Drill or Mount Track

It may be necessary to put trim caps, control blocks and traveler car on track before mounting. Slide control assemblies onto track with bumper facing car. Keep control assembly loose so it can be moved away while installing track.

Track Cutting Considerations

To cut track to length, make sure stop holes for control blocks do not interfere with hole for mounting track. If necessary, cut both ends of track.



Cockpit Installation—Allow Room for Trim Caps

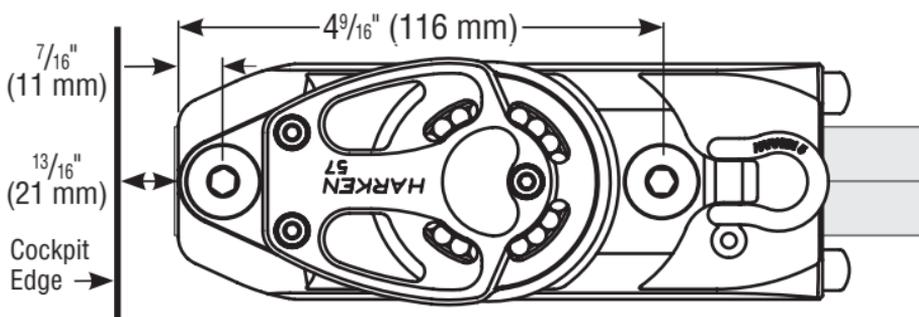
To determine correct track length, make sure track ends, without trim caps, are $\frac{13}{16}$ " (21 mm) from edge of cockpit coaming to allow room for trim caps.

Install Trim Caps in Track Ends

Remove any burrs on edges of track. Press 3157 or 3158 trim caps in place. **Important: insert trim caps before drilling outboard control block hole.**

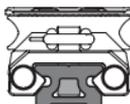
Position Control Block/Drill Track/Secure Control

Position control block flush with end of track. Drive screw firmly against top surface to mark track, then loosen. Slide control block away.

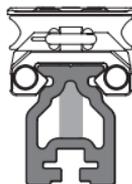


Drill $\frac{27}{64}$ " (10.5 mm) hole **through top surface of track** only.

Important: Do not use screw hole in control block as a drill guide.



3154, 3155, 3159, 3162, 1846, R32
Use 25 mm Screws

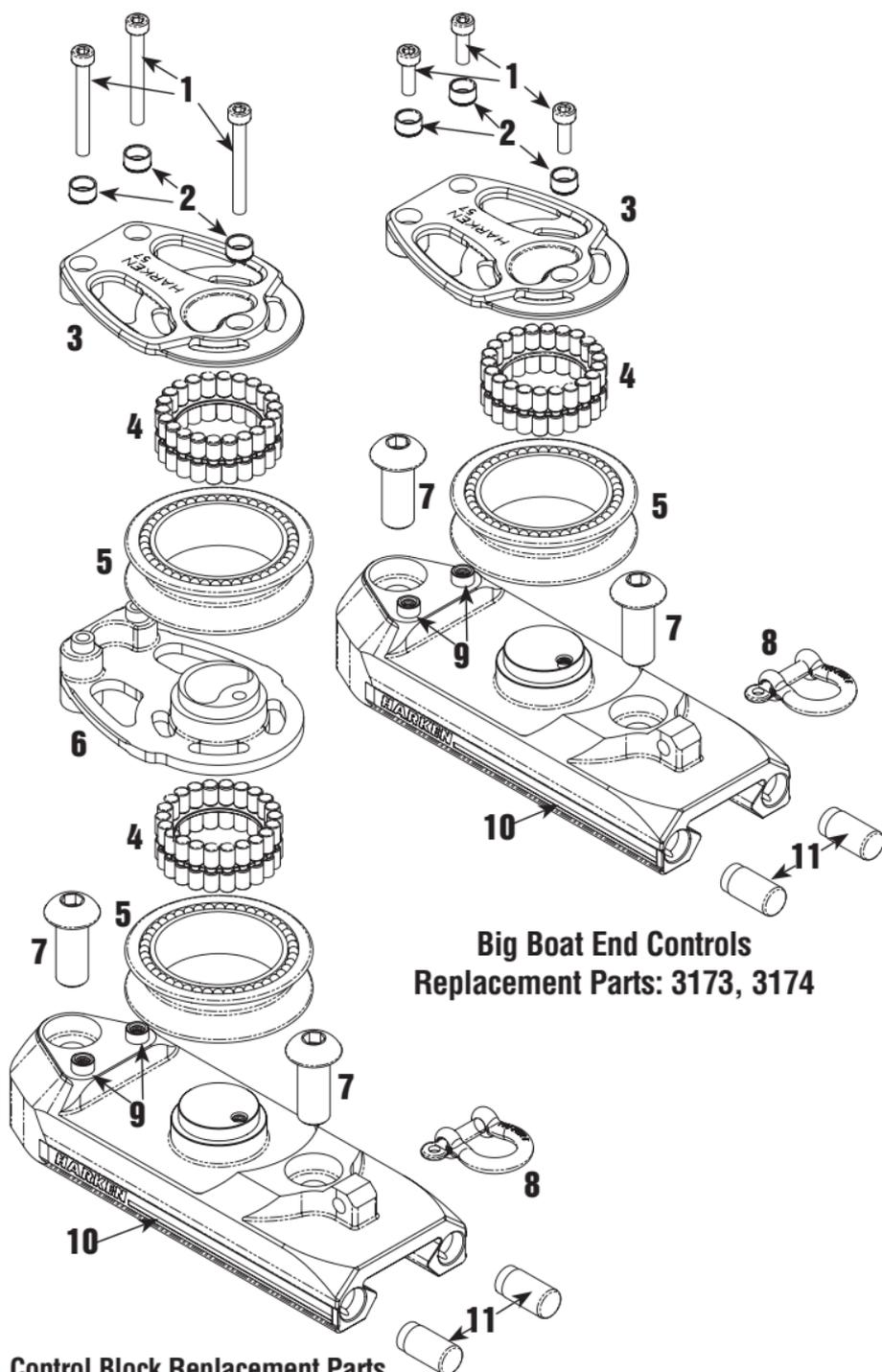


3156, R32HB
Use 45 mm Screws

Secure control block to track by tightening correct screw into hole.

Dead-ending Line at End Control





**Big Boat End Controls
Replacement Parts: 3173, 3174**

Control Block Replacement Parts

No.	Part No.	Description	No.	Part No.	Description
1		Cheek assembly screws (3)	7	HBB172	Control Block Screws (Set)(2)
	HFS797	3174 HL Double (3)		HFS1073	M10 X 1.5 x 25 mm (2)
	HFS796	3173 HL Single (3)		HFS1074	M10 X 1.5 x 45 mm (2)
2	H-21641A	Isolators (3)	8	2132	Shackle (1)
3	H-22471C	Sideplate (Top) (1)	9	HFS786	Helicoils (M4 x .7 x 6 mm)(3)
4	HBB85	Rollers Bearings w/Cage (22)	10	4306	Harken Label (2)
5	H-21635B	Sheave (1)	11	H-38067A	Bumpers (2)
6	H-22473C	Sideplate (Bottom) (1)			

Inspect

Carefully inspect track and mounting hardware for any signs of loosening, cracks or damage. Inspect end stops to make sure they are secure and that there are no cracks or damage. Arrange control tackle so cars do not hit end stops under load.



WARNING! Failure to inspect tracks and stops can result in track pulling off deck suddenly and unexpectedly during high 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 a few 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/ manuals or the Harken® catalog.