

HARKEN®

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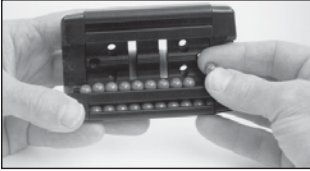
INSTRUCTIONS

Traveler Car Replacement Bearings – Non-CB-Style Cars

IMPORTANT: See Inspection and Maintenance at end of manual.
See www.harken.com/manuals for more instructions

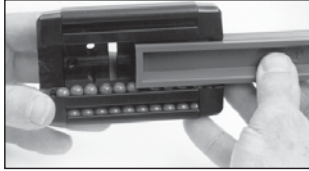
Identify your non-CB style car						Ordering Information			
Car Part No.	Description	Length		Balls/Car	Ball Material	Order Ball Part No.	Balls/Set	Ball Ø	
		in	mm					in	mm
Traveler Cars									
156/157/171	SB	2 ⁷ / ₈	73	42	Delrin®	176	21	1/4	6
158/159/172	SB high-load	2 ⁷ / ₈	73	42	Torlon®	177	21	1/4	6
210	SB high-load	2 ⁷ / ₈	73	42	Torlon®	177	21	1/4	6
214/215/440/441	SB 1250 Series	4 ³ / ₈	111	64	Torlon®	177	21	1/4	6
1508/1594	Midrange	4 ¹ / ₄	108	48	Torlon®	1526	25	5/16	8
1509/1595	Midrange long	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
1604	Midrange w/2 toggles	7 ¹ / ₄	184	86	Torlon®	1526	25	5/16	8
515/1928	BB 3000 Series	5 ¹ / ₄	133	50	Torlon®	547	25	3/8	10
558/1929	BB 4500 Series	7 ¹ / ₄	184	72	Torlon®	547	25	3/8	10
1939	BB 5000 Series w/2 toggles/shackles	8 ¹ / ₂	216	90	Torlon®	547	25	3/8	10
1941	BB 6000 Series w/3 toggles/shackles	10 ¹ / ₂	267	110	Torlon®	547	25	3/8	10
3068	Mini-Maxi	10	254	72	Torlon®	HBB21	1	1/2	12
3070	Maxi	13 ⁷ / ₈	353	104	Torlon®	HBB21	1	1/2	12
Windward Sheeting Cars									
211	SB Windward	2 ⁷ / ₈	73	42	Delrin®	176	21	1/4	6
212	SB high-load	2 ⁷ / ₈	73	42	Torlon®	177	21	1/4	6
247	SB 1250 Series	4 ³ / ₈	111	64	Torlon®	177	21	1/4	6
1575	MR Windward	4 ¹ / ₄	108	48	Torlon®	1526	25	5/16	8
1576	MR long	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
608/1930	BB 3000 Series	5 ¹ / ₄	133	50	Torlon®	547	25	3/8	10
609/1931	BB 4500 Series	7 ¹ / ₄	184	72	Torlon®	547	25	3/8	10
Spinnaker Pole Cars									
780	SB ring	4 ³ / ₈	111	64	Torlon®	177	21	1/4	6
781	MR ring	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
1578	Midrange 120/130 bell	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
1579	MR Sparcraft toggle	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
1580	MR Forespar toggle	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
782	BB 120/130 bell	7 ¹ / ₄	184	72	Torlon®	547	25	3/8	10
783	BB Sparcraft toggle	7 ¹ / ₄	184	72	Torlon®	547	25	3/8	10
784	BB Forespar toggle	7 ¹ / ₄	184	72	Torlon®	547	25	3/8	10
Genoa Lead Cars									
249	SB	4 ³ / ₈	111	64	Torlon®	177	21	1/4	6
1537	Midrange	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
554	BB	7 ¹ / ₄	184	72	Torlon®	547	25	3/8	10
587	BB	5 ¹ / ₄	133	50	Torlon®	547	25	3/8	10
3072	Mini-Maxi	12	305	84	Torlon®	HBB21	1	1/2	12
Furling Mainsail Outhaul Cars									
1615	Midrange	5 ¹ / ₄	133	60	Torlon®	1526	25	5/16	8
595	BB	5 ¹ / ₄	133	50	Torlon®	547	25	3/8	10

Loading Balls

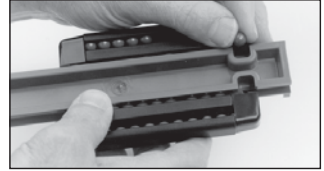


To load balls in car, hold car on edge and load lower side with correct number of balls.

DO NOT OVERLOAD.



Remove two clips from car-loader. Slide plastic car-loader in so loading port is on the side of car without balls. Put one clip on "open" end of the loader.



Load rest of balls through ball loading port into empty bearing race. Wiggle car slightly to move balls into race. Do not overload. Push car to end clip and slide on inner clip to prevent car from rolling back to loading port. Put car back on track.

Note: Some car loaders are aluminum and do not have clips. Use tape wrapped around end to secure car. Load balls by recessing aluminum loader one ball width.

SAVE YOUR CAR-LOADER - Plastic car-loader is used to transfer cars to tracks and to load bearings if they come out of car.

TO LOAD CAR ON TRACK - Slide off plastic spring clip from short end of the car-loader. Line it up with end of aluminum track and roll car onto track.

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Torlon[®] is a registered trademark of Solvay Advanced Polymers.

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, possibly causing severe injury or death.

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.

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