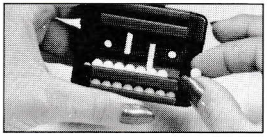
HARKEN®

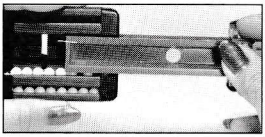
TRAVELER CAR BEARINGS

CAR			BALL BEARING			
PART NO.	DESCRIPTION	CAR LENGTH	SIZE	TYPE	AM'T	PART NO.
TRAVELER CARS						
156,157,171	SB Traveler	2⅞" (73mm)	¼" (6mm)	Delrin	42	176 (21 balls/set)
158,159,172	SB Hi-Load	2⅞" (73mm)	¼" (6mm)	Torlon	42	177 (21 balls/set)
209	SB Cam	2⅞" (73mm)	¼" (6mm)	Delrin	42	176 (21 balls/set)
210	SB Hi-Load Cam	2⅞" (73mm)	¼" (6mm)	Torlon	42	177 (21 balls/set)
214,215	SB 1250 Series	4⅜" (111mm)	¼" (6mm)	Torlon	64	177 (21 balls/set)
1508, 1594	MR Traveler	4¼" (108mm)	5⁄16" (8mm)	Torlon	48	1526 (25 balls/set)
1509, 1595	MR Long	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
515, 1928	BB 3000 Series	5¼" (133mm)	⅜" (10mm)	Torlon	50	547 (25 balls/set)
558, 1929	BB 4500 Series	7¼" (184mm)	⅜" (10mm)	Torlon	72	547 (25 balls/set)
1939, 1940	BB 5000 Series with 2 toggles or shackles	8½" (216 mm)	⅜" (10mm)	Torlon	90	547 (25 balls/set)
1941, 1942	BB 6000 Series with 3 toggles or shackles	10½" (267 mm)	⅜" (10mm)	Torlon	110	547 (25 balls/set)
1700,1704,1705	Mini-maxi Traveler	10" (254mm)	½" (12mm)	Torlon	68	HBB 21 (single balls)
1841,1842,1843	Mini-maxi Traveler	12" (305mm)	½" (12mm)	Torlon	84	HBB 21 (single balls)
665,678,679,751	Maxi Traveler	13¾" (349mm)	½" (12mm)	Torlon	98	HBB 21 (single balls)
WINDWARD SHEETING CARS						
211	SB Windward	2⅞" (73mm)	¼" (6mm)	Delrin	42	176 (21 balls/set)
212	SB Hi-Load	2⅞" (73mm)	¼" (6mm)	Torlon	42	177 (21 balls/set)
247	SB 1250 Series	4⅜" (111mm)	¼" (6mm)	Torlon	64	177 (21 balls/set)
1575	MR Windward	4¼" (108mm)	5⁄16" (8mm)	Torlon	48	1526 (25 balls/set)
1576	MR Long	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
608	BB 3000 Series	5¼" (133mm)	⅜" (10mm)	Torlon	50	547 (25 balls/set)
609	BB 4500 Series	7¼" (184mm)	⅜" (10mm)	Torlon	72	547 (25 balls/set)
SPINNAKER POLE CARS						
780	SB Ring	4⅜" (111mm)	¼" (6mm)	Torlon	64	177 (21 balls/set)
781	MR Ring	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
1578	MR 120 & 130 Bell	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
1579	MR Sparcraft Toggle	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
1580	MR Forespar Toggle	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
782	BB 120 & 130 Bell	7¼" (184mm)	⅜" (10mm)	Torlon	72	547 (25 balls/set)
783	BB Sparcraft Toggle	7¼" (184mm)	⅜" (10mm)	Torlon	72	547 (25 balls/set)
784	BB Forespar Toggle	7¼" (184mm)	⅜" (10mm)	Torlon	72	547 (25 balls/set)
GENOA LEAD CARS						
249	SB Genoa	4⅜" (111mm)	¼" (6mm)	Torlon	64	177 (21 balls/set)
1537	MR Genoa	5¼" (133mm)	5⁄16" (8mm)	Torlon	60	1526 (25 balls/set)
554	BB Genoa	7¼" (184mm)	⅜" (10mm)	Torlon	72	547 (25 balls/set)
587	BB Genoa	5¼" (133mm)	⅜" (10mm)	Torlon	50	547 (25 balls/set)
1869, 1870	Mini-maxi Genoa	12" (305mm)	½" (12mm)	Torlon	84	HBB 21 (single balls)
1871, 1872	Maxi Genoa	13¾" (349mm)	½" (12mm)	Torlon	98	HBB 21 (single balls)

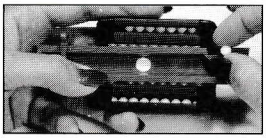
LOADING BALLS



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 - Red or blue plastic car-loader is used to transfer cars to tracks and to load bearings if they come out of the car.

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

Maintenance

Harken equipment is designed for minimal maintenance, but some maintenance is required to give the best service and to comply with the Harken limited warranty.

In general, the most important aspect of maintenance is to keep your equipment clean by frequently flushing with fresh water. In corrosive atmospheres, stainless parts may show discoloration around holes, rivets and screws. This is not serious and may be removed with a fine abrasive.

With the exception of winches, do not use grease unless specifically recommended in the instruction manual.

Many Harken products are provided with specific instruction manuals that detail maintenance procedures. Manuals are available at no charge by contacting Harken or a Harken distributor.

Traveler Cars: Keep traveler cars clean by flushing frequently with fresh water. Periodically clean cars and tracks with detergent and fresh water to remove deposits of salt and dirt. This is particularly important when cars have not been used for long periods of time. Lubrication is not required, but lubricants such as dry Teflon and dry silicone sprays which will not attract dirt may be used. Alternatively, a light machine oil such as 3-in-1 may be used. Use only a single drop in each ball race; too much will attract dirt.

Frequently inspect shackles and control block fittings for signs of fatigue. Be sure that every installation includes Harken track end stops and arrange control tackles so that cars don't hit the end stops under load, but are stopped by the rope.

Warranty

See Harken catalog for complete warranty and maintenance information.

HARKEN®

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