

Quick Service

TRAVELERS & GENOA LEADS



SERVICE AT REGULAR INTERVALS

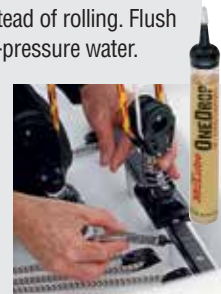
Service is required after storage, when cars have too much friction, or if balls seem to be sliding instead of rolling. Flush with fresh water and detergent, move cars back and forth to circulate the balls, and follow with high-pressure water. Clean track grooves and then use a single drop of McLube™ OneDrop™ Ball Bearing Conditioner in each ball race. Do NOT use McLube Sailkote™ as it causes balls to skid instead of roll.

Service items:

- Earth-friendly detergent; McLube OneDrop; Water hose

Inspect carefully for:

- **Cracked, corroded, or elongated shackles:** Replace immediately.
- **Loose car fasteners:** Check all screws and cotter pins.
- **Loose track or end control screws:** If possible check underneath the deck to inspect for stress cracking and other damage. Pay careful attention to high-beam track on cabintop.
- **Missing bearings:** See chart on back for replacement ball bearings.
- **Bent wire clip (CB only):** Check that the ball retaining wire clip is not visibly damaged. See chart on back for



replacement wire clips. **Replacement CB Cars will not roll on older track.** CB cars require a groove in the track for the car's ball retaining wire. New CB+ cars introduced in 2015 can convert to run on old style non-CB track. See below.

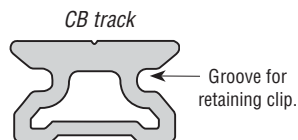
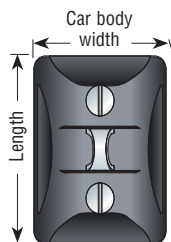
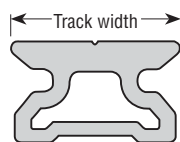
Find specific information at www.harken.com/manuals.

PART IDENTIFICATION

Method

1. If you only need to determine system size, simply measure the top of the track and use the Car Body and Track Widths chart below.

2. To identify a particular slider or ball bearing car, measure the car body width (not including control blocks) and then use the lengths in the Car Identification chart on back to find specific cars.



Non-CB track built before 2003.



Note: CB+ cars can convert to run on non-CB track.

Car body and track widths

System size	Car body		Track	
	in	mm	in	mm
Micro CB	1 ⁹ / ₁₆	40	1/2	13
Small Boat CB	2 ¹ / ₄	57	7/8	22
Small Boat non-CB	2 ³ / ₁₆	56	7/8	22
Midrange CB	2 ³ / ₄	70	1 ¹ / ₁₆	27
Midrange non-CB	2 ³ / ₄	70	1 ¹ / ₁₆	27
Big Boat CB	3 ³ / ₈	85	1 ¹ / ₄	32
Big Boat non-CB	3 ⁵ / ₁₆	84	1 ¹ / ₄	32

SERVICEABILITY

Dealer Replaceable Parts

All track components.
Ball bearings, toggles, car controls, and endcaps for non-CB cars (see chart).
Car loaders for non-CB cars (see chart).

Traveler Rebuild Kits

Use for older non-CB ball bearing cars. Kit contains new endcaps, screws, Torlon® ball bearings, car loader, blue Loctite® adhesive, and instructions.

Part No.	Description	Torlon® ball quantity
HSB501	Small Boat	64
HMR99	Midrange	60
HBB197	Big Boat	60



Parts included.

Endcap Sets (No Balls)

Use for older non-CB ball bearing cars.

System size	Description	Part No.
Small Boat	Plastic	HSB78
Midrange	Plastic	HMR3
Midrange	Aluminum	HC1653
Big Boat	Plastic	HBB48
Big Boat	Aluminum	HC289



Parts included.

Car loaders (no balls)

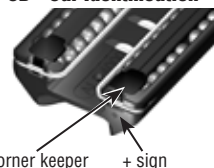
Use for older non-CB ball bearing cars and to convert CB+ cars to non-CB cars.

System size	Description	Part No.
Small Boat	Car loader	HSB116
Midrange	Car loader	HMR2
Big Boat	Car loader	HBB1



CB+ Car Identification

CB+ cars can convert to run on non-CB track.



Corner keeper + sign



Remove corner keepers and retaining clips and load balls using car loader.

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OneDrop is a trademark of McLube, a Division of McGee Industries.
Sailkote is a trademark of McLube, a Division of McGee Industries.
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Quick Service

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CAR IDENTIFICATION & BALL REPLACEMENT

Use chart to find ball bearing replacements if you know either the part number or certain measurements. The Car Length column can be used to identify different cars within a particular size range.

CB Wire Clips and Accessories CB+ cars with new wire clips and added corner keepers began shipping by mid-2015. New and old clips are not interchangeable.

Track width	Description	Car length		Clip length (installed)		Clip Part No. (order 2)	CB+ Car Clip Part No. (Order 2)	CB+ Car Corner keepers (Order 4)
		in	mm	in	mm			
13 mm	Micro	2 ³ / ₁₆	56	2.15	55	MS-1000	~	~
22 mm	Small Boat	2 ⁷ / ₈	73	2.87	73	MS-1010	MS-1050	MP-1988
	Small Boat	4 ¹ / ₈	105	4.12	105	MS-1011	MS-1047	MP-1988
	Small Boat radial vang	4 ¹ / ₈	105	4.12	105	MS-1044* MS-1045**	Contact Harken	
27 mm	Midrange	4 ¹ / ₄	108	4.23	107	MS-1021	Contact Harken	
	Midrange	5 ³ / ₁₆	132	5.17	131	MS-1022	MS-1048	MP-1989
	Midrange	9	229	4.23	107	MS-1021***	MS-1046	MP-1989
32 mm	Big Boat - 3000	5 ³ / ₈	136	5.31	135	MS-1031	MS-1048***	MP-1989+
	Big Boat - 4500	7 ¹ / ₁₆	188	7.28	185	MS-1032	MS-1054	MP-1990
	Big Boat - 5000	9 ¹ / ₈	231	9.05	230	MS-1033	MS-1056	MP-1990
	Big Boat/2-car	15	381	7.28	185	MS-1032***	MS-1055	MP-1990

*Specially bent. Order one for outside.

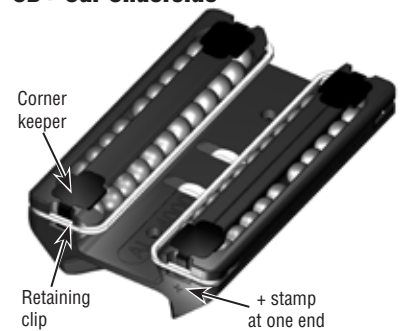
**Specially bent. Order one for inside.




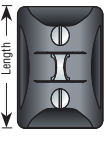



***Order 4 clips.

+Order 8 corner keepers.

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Tolon is a registered trademark of Solvay Advanced Polymers.





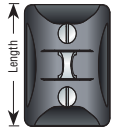




CB+ Car Underside



Car	Change date	Bearing style	Part number	Description	Car width		Car length		# Balls per car	Ball material	Ball kit		Ball diameter		Car loader	Car loader CB+ to non-CB
					in	mm	in	mm			Part No.	# Balls	in	mm		
			  	 					 							
	—	CB only	2700, 2701, 2702, 2703	Micro CB	1 ⁹ / ₁₆	40	2 ³ / ₁₆	56	40	Torlon	2708	20	3 ⁷ / ₁₆	5	—	—
Feb-Mar	CB+	2726, 2728, 2730, 2732, 2744	Small Boat CB	2 ³ / ₁₆	56	2 ⁷ / ₈	73	40	Delrin	176	21	1/4	6	—	HSB116	
	CB+	2727, 2729, 2731, 2733, 2734, 2745	Small Boat CB high-load	2 ³ / ₁₆	56	2 ⁷ / ₈	73	40	Torlon	177	21	1/4	6	—	HSB116	
	CB+	2735, 2736, 2737, 2738, 2746	Small Boat CB 1250 series	2 ³ / ₁₆	56	4 ¹ / ₈	105	60	Torlon	177	21	1/4	6	—	HSB116	
—	Non CB	156, 157, 171, 211	Small Boat	2 ³ / ₁₆	56	2 ⁷ / ₈	73	42	Delrin	176	21	1/4	6	HSB116	—	
	Non CB	158, 159, 172, 210, 212	Small Boat high-load	2 ³ / ₁₆	56	2 ⁷ / ₈	73	42	Torlon	177	21	1/4	6	HSB116	—	
	Non CB	214, 215, 247, 440, 441	Small Boat 1250 series	2 ³ / ₁₆	56	4 ³ / ₈	111	64	Torlon	177	21	1/4	6	HSB116	—	
Jan-Feb	CB+	T2701B, T2702B, T2703B, T2705B, T2721B, T2722B, T2731B, T2732B, T2741B, T2742B	T27 Midrange CB	2 ³ / ₄	70	4 ¹ / ₄	108	48	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2	
	CB+	T2701B.HL, T2702B.HL, T2703B.HL, T2705B.HL, T2721B.HL, T2722B.HL, T2731B.HL, T2732B.HL, T2741B.HL, T2742B.HL	T27 Midrange CB high-load	2 ³ / ₄	70	5 ³ / ₁₆	132	60	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2	
	CB+	T2704B.HL, T2744B.HL	T27 Midrange CB 2 cars with 2 toggles	2 ³ / ₄	70	4 ¹ / ₄	108	48 x 2	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2 x 2	
	CB+	1635	Midrange CB windward sheeting	2 ³ / ₄	70	4 ¹ / ₄	108	48	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2	
	CB+	1636	Midrange CB high-load windward sheeting	2 ³ / ₄	70	5 ³ / ₁₆	132	60	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2	
	CB+	1624, 1628	Midrange CB	2 ³ / ₄	70	4 ¹ / ₄	108	48	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2	
	CB+	1629	Midrange CB long	2 ³ / ₄	70	5 ³ / ₁₆	132	60	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2	
—	CB only	1626, 1640	Midrange CB	2 ³ / ₄	70	4 ¹ / ₄	108	48	Torlon	1526	25	5 ⁵ / ₁₆	8	—	—	
	CB only	1625, 1627, 1641	Midrange CB long	2 ³ / ₄	70	5 ³ / ₁₆	132	60	Torlon	1526	25	5 ⁵ / ₁₆	8	—	—	
	Non CB	1508, 1575, 1594	Midrange	2 ³ / ₄	70	4 ¹ / ₄	108	48	Torlon	1526	25	5 ⁵ / ₁₆	8	HMR2	—	
—	Non CB	1509, 1576, 1595	Midrange long	2 ³ / ₄	70	5 ¹ / ₄	133	60	Torlon	1526	25	5 ⁵ / ₁₆	8	HMR2	—	
	Non CB	1604	Midrange with 2 toggles	2 ³ / ₄	70	7 ¹ / ₄	184	86	Torlon	1526	25	5 ⁵ / ₁₆	8	HMR47	—	
TBD	CB+	T3201B, T3202B, T3203B, T3205B, T3221B, T3222B, T3231B, T3232B, T3241B, T3242B	T32 Big Boat CB 3000 series	3 ⁵ / ₁₆	85	5 ³ / ₈	136	50	Torlon	547	25	3/8	10	—	HBB1	
	CB+	T3201B.HL, T3202B.HL, T3203B.HL, T3205B.HL, T3221B.HL, T3222B.HL, T3231B.HL, T3232B.HL, T3241B.HL, T3242B.HL, T3243B.HL	T32 Big Boat CB 4500 series	3 ⁵ / ₁₆	85	7 ¹ / ₁₆	188	72	Torlon	547	25	3/8	10	—	HBB28	
	CB+	T3204B, T3224B, T3334B, T3244B,	T32 Big Boat CB 5000 series with 2 toggles/shackles	3 ⁵ / ₁₆	85	9 ¹ / ₈	231	90	Torlon	547	25	3/8	10	—	HBB25	

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Car	Change date	Bearing style	Part number	Description	Car width		Car length		# Balls per car	Ball material	Ball kit		Ball diameter		Car loader	Car loader CB+ to non-CB
					in	mm	in	mm			Part No.	# Balls	in	mm	Included	Order
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>CB+ car</p>  </div> <div style="text-align: center;"> <p>CB-only car</p>  </div> <div style="text-align: center;"> <p>Non-CB car</p>  </div> <div style="text-align: center;"> <p>Car body width</p>  </div> <div style="text-align: center;"> <p>Length</p>  </div> <div style="text-align: center;"> <p>Delrin®</p>  <p>Torlon®</p>  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>																
TRAVELER	TBD	CB+	T3204B.HL, T3224B.HL, T3234B.HL, T3244B.HL,	T32 Big Boat CB 2 high-load cars with 2 toggles	3 ⁵ / ₁₆	85	7 ⁷ / ₁₆	188	72 x 2	Torlon	547	25	3 ³ / ₈	10	—	HBB28 x 2
		CB+	T3208B	T32 Big Boat CB 2 cars with 2 toggles	3 ⁵ / ₁₆	85	5 ³ / ₈	136	50 x 2	Torlon	547	25	3 ³ / ₈	10	—	HBB1 x 2
		CB+	3176, 3177	Big Boat CB 3000 series windward sheetng	3 ⁵ / ₁₆	85	5 ³ / ₈	136	50	Torlon	547	25	3 ³ / ₈	10	—	HBB1
		CB+	3178, 3179	Big Boat CB 4500 series windward sheeting	3 ⁵ / ₁₆	85	7 ⁷ / ₁₆	188	72	Torlon	547	25	3 ³ / ₈	10	—	HBB28
		CB+	3160, 3163, 3164	Big Boat CB 3000 series	3 ⁵ / ₁₆	85	5 ³ / ₈	136	50	Torlon	547	25	3 ³ / ₈	10	—	HBB1
		CB+	3163, 3165, 3166	Big Boat CB 4500 series	3 ⁵ / ₁₆	85	7 ⁷ / ₁₆	188	72	Torlon	547	25	3 ³ / ₈	10	—	HBB28
	—	CB only	3167	Big Boat CB 5000 series with 2 toggles/shackles	3 ⁵ / ₁₆	85	9 ¹ / ₈	231	90	Torlon	547	25	3 ³ / ₈	10	—	—
	—	Non CB	515, 608, 1928, 1930	Big Boat 3000 series	3 ⁵ / ₁₆	85	5 ¹ / ₄	133	50	Torlon	547	25	3 ³ / ₈	10	HBB1	—
		Non CB	558, 609, 1929, 1931	Big Boat 4500 series	3 ⁵ / ₁₆	85	7 ¹ / ₄	184	72	Torlon	547	25	3 ³ / ₈	10	HBB28	—
		Non CB	1939	Big Boat 5000 series with 2 toggles/shackles	3 ⁵ / ₁₆	85	8 ¹ / ₂	216	90	Torlon	547	25	3 ³ / ₈	10	HBB25	—
		Non CB	1941	Big Boat 6000 series w/3 toggles/shackles	3 ⁵ / ₁₆	85	10 ¹ / ₂	267	110	Torlon	547	25	3 ³ / ₈	10	HBB25	—
		Non CB	3074	Big Boat CRX	3 ⁵ / ₁₆	85	5	127	102	Torlon	H-38349A	Rollers	—	—	—	—
		Non CB	3075	Big Boat CRX	3 ⁵ / ₁₆	85	7 ¹ / ₂	191	148	Torlon	H-38349A	Rollers	—	—	—	—
		Non CB	3068	Mini-Maxi	4 ³ / ₈	111	10	254	72	Torlon	MP-128	1	1 ¹ / ₂	12	HBB39	—
Non CB		3070	Maxi	5 ¹ / ₄	133	13 ⁷ / ₈	353	104	Torlon	MP-128	1	1 ¹ / ₂	12	HBB32	—	
GENOA LEAD	Feb-Mar	CB+	G2227B, G2247B, G2222B, G224B	Small Boat CB	2 ³ / ₁₆	56	4 ¹ / ₈	105	60	Torlon	177	21	1 ¹ / ₄	6	—	HSB116
	—	Non CB	249	Small Boat	2 ³ / ₁₆	56	4 ³ / ₈	111	64	Torlon	177	21	1 ¹ / ₄	6	HSB116	—
	Jan-Feb	CB+	G272B, G273B, G274B, G2727B, G2737B, G2747B	Midrange CB	2 ³ / ₄	70	5 ³ / ₁₆	132	60	Torlon	1526	25	5 ⁵ / ₁₆	8	—	HMR2
		CB+	G273B.HL, G274B.HL, G2737B.HL, G2747B.HL	Midrange CB	2 ³ / ₄	70	9	229	96	Torlon	1526	25	5 ⁵ / ₁₆	8	—	Contact Harken
	—	Non CB	1537	Midrange	2 ³ / ₄	70	5 ¹ / ₄	133	60	Torlon	1526	25	5 ⁵ / ₁₆	8	HMR2	—
	TBD	CB+	G323B, G324B, G3237B, G3247B	Big Boat CB	3 ⁵ / ₁₆	85	9 ¹ / ₈	231	90	Torlon	547	25	3 ³ / ₈	10	—	HBB25
	—	Non CB	554	Big Boat	3 ⁵ / ₁₆	85	7 ¹ / ₄	184	72	Torlon	547	25	3 ³ / ₈	10	HBB28	—
		Non CB	587	Big Boat	3 ⁵ / ₁₆	85	5 ¹ / ₄	133	50	Torlon	547	25	3 ³ / ₈	10	HBB1	—
		Non CB	HC4928	Big Boat	3 ⁵ / ₁₆	85	10 ¹ / ₄	260	104	Torlon	547	25	3 ³ / ₈	10	HBB25	—
Non CB		3072	Mini-Maxi	4 ³ / ₈	111	13 ¹¹ / ₁₆	348	84	Torlon	MP-128	1	1 ¹ / ₂	12	HBB72	—	

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