

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.

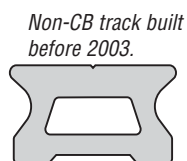
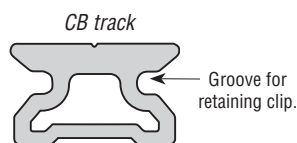
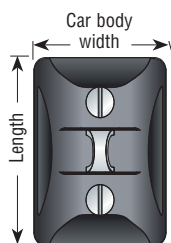
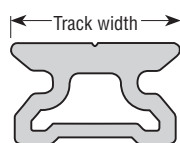
Find specific information at www.harken.com/manuals.

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.



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



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



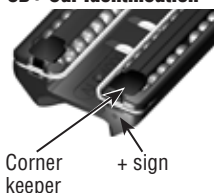
Car loaders (no balls)

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.



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

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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-1053***	MP-1990+
	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.

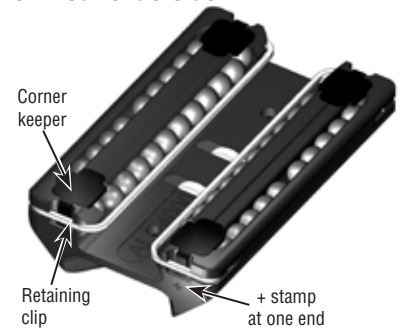
**Specially bent. Order one for inside.




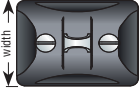
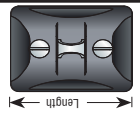




***Order 4 clips.

+Order 8 corner keepers.







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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+ car 	CB-only car 	Non-CB car 	Car body width 		Car length 									
					in	mm	in	mm								
Feb-Mar 2015	—	CB+	2700, 2701, 2702, 2703	Micro CB	40	2 ⁹ / ₁₆	56	40	Torlon	2708	20	3 ¹ / ₆	5	—	—	
				Small Boat CB	56	2 ³ / ₁₆	73	40	Delrin	176	21	1 ⁴ / ₄	6	—	HSB116	
				Small Boat CB high-load	56	2 ³ / ₁₆	73	40	Torlon	177	21	1 ⁴ / ₄	6	—	HSB116	
				Small Boat CB 1250 series	56	2 ³ / ₁₆	105	60	Torlon	177	21	1 ⁴ / ₄	6	—	HSB116	
—	—	Non CB	156, 157, 171, 211	Small Boat	56	2 ³ / ₁₆	73	42	Delrin	176	21	1 ⁴ / ₄	6	HSB116	—	
				Small Boat high-load	56	2 ³ / ₁₆	73	42	Torlon	177	21	1 ⁴ / ₄	6	HSB116	—	
				Small Boat 1250 series	56	2 ³ / ₁₆	111	64	Torlon	177	21	1 ⁴ / ₄	6	HSB116	—	
				T27 Midrange CB	70	2 ³ / ₄	108	48	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2	
Jan-Feb 2015	—	CB+	T2701B.HL, T2702B.HL, T2703B.HL, T2705B.HL, T2721B.HL, T2731B.HL, T2732B.HL, T2741B.HL, T2742B.HL	T27 Midrange CB high-load	70	2 ³ / ₄	132	60	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2	
				T27 Midrange CB 2 cars with 2 toggles	70	2 ³ / ₄	108	48 x 2	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2 x 2	
				Midrange CB windward sheeting	70	2 ³ / ₄	108	48	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2	
				Midrange CB high-load windward sheeting	70	2 ³ / ₄	132	60	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2	
—	—	Non CB	1624, 1628	Midrange CB	70	2 ³ / ₄	108	48	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2	
				Midrange CB long	70	2 ³ / ₄	132	60	Torlon	1526	25	5 ¹ / ₆	8	—	HMR2	
				Midrange CB	70	2 ³ / ₄	108	48	Torlon	1526	25	5 ¹ / ₆	8	—	—	
				Midrange CB long	70	2 ³ / ₄	132	60	Torlon	1526	25	5 ¹ / ₆	8	—	—	
—	—	Non CB	1625, 1627, 1641	Midrange CB long	70	2 ³ / ₄	132	60	Torlon	1526	25	5 ¹ / ₆	8	—	—	
				Midrange CB long	70	2 ³ / ₄	132	60	Torlon	1526	25	5 ¹ / ₆	8	—	—	
				Midrange long	70	2 ³ / ₄	133	60	Torlon	1526	25	5 ¹ / ₆	8	HMR2	—	
				Midrange with 2 toggles	70	2 ³ / ₄	184	86	Torlon	1526	25	5 ¹ / ₆	8	HMR47	—	
May 2015	—	CB+	T3201B, T3202B, T3203B, T3205B, T3221B, T3222B, T3231B, T3232B, T3241B, T3242B	T32 Big Boat CB 3000 series	85	3 ⁵ / ₁₆	136	50	Torlon	547	25	3 ¹ / ₆	10	—	HBB1	
				T32 Big Boat CB 4500 series	85	3 ⁵ / ₁₆	188	72	Torlon	547	25	3 ¹ / ₆	10	—	HBB28	
				T32 Big Boat CB 5000 series with 2 toggles/shackles	85	3 ⁵ / ₁₆	231	90	Torlon	547	25	3 ¹ / ₆	10	—	HBB25	
				T32 Big Boat CB 3000 series	85	3 ⁵ / ₁₆	231	90	Torlon	547	25	3 ¹ / ₆	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			
				CB+ car  CB-only car  Non-CB car 						Delrin®  Torlon® 					
		CB+	T3204B.HL, T3224B.HL, T3234B.HL, T3244B.HL,	T32 Big Boat CB 2 high-load cars with 2 toggles	35/16	188	77/16	72 x 2	Torlon	547	25	10	—	HBB28 x 2	
		CB+	T3208B	T32 Big Boat CB 2 cars with 2 toggles	35/16	136	53/8	50 x 2	Torlon	547	25	10	—	HBB1 x 2	
	May 2015	CB+	3176, 3177	Big Boat CB 3000 series windshield sheeting	35/16	136	53/8	50	Torlon	547	25	10	—	HBB1	
		CB+	3178, 3179	Big Boat CB 4500 series windshield sheeting	35/16	188	77/16	72	Torlon	547	25	10	—	HBB28	
		CB+	3160, 3163, 3164	Big Boat CB 3000 series	35/16	136	53/8	50	Torlon	547	25	10	—	HBB1	
		CB+	3163, 3165, 3166	Big Boat CB 4500 series	35/16	188	77/16	72	Torlon	547	25	10	—	HBB28	
		CB only	3167	Big Boat CB 5000 series with 2 toggles/shackles	35/16	231	91/8	90	Torlon	547	25	10	—	—	
		Non CB	515, 608, 1928, 1930	Big Boat 3000 series	35/16	133	51/4	50	Torlon	547	25	10	HBB1	—	
		Non CB	558, 609, 1929, 1931	Big Boat 4500 series	35/16	184	71/4	72	Torlon	547	25	10	HBB28	—	
		Non CB	1939	Big Boat 5000 series with 2 toggles/shackles	35/16	216	81/2	90	Torlon	547	25	10	HBB25	—	
		Non CB	1941	Big Boat 6000 series w/3 toggles/shackles	35/16	267	101/2	110	Torlon	547	25	10	HBB25	—	
		Non CB	3074	Big Boat CRX	35/16	127	5	102	Torlon	H-38349A	Rollers	—	—	—	
		Non CB	3075	Big Boat CRX	35/16	191	71/2	148	Torlon	H-38349A	Rollers	—	—	—	
		Non CB	3068	Mini-Maxi	43/8	254	10	72	Torlon	MP-128	1	1/2	HBB39	—	
		Non CB	3070	Maxi	51/4	353	137/8	104	Torlon	MP-128	1	1/2	HBB32	—	
	Feb-Mar 2015	CB+	G2227B, G2247B, G222B, G224B	Small Boat CB	23/16	105	41/8	60	Torlon	177	21	1/4	—	HSB1 16	
		Non CB	249	Small Boat	23/16	111	43/8	64	Torlon	177	21	1/4	HSB116	—	
		CB+	G272B, G273B, G274B, G2727B, G2737B, G2747B	Midrange CB	23/4	132	53/16	60	Torlon	1526	25	9/16	—	HMR2	
	Jan-Feb 2015	CB+	G273B.HL, G274B.HL, G2737B.HL, G2747B.HL	Midrange CB	23/4	229	9	96	Torlon	1526	25	9/16	—	Contact Harken	
		Non CB	1537	Midrange	23/4	133	51/4	60	Torlon	1526	25	9/16	HMR2	—	
	Jun 2015	CB+	G323B, G324B, G3237B, G3247B	Big Boat CB	35/16	231	91/8	90	Torlon	547	25	10	—	HBB25	
		Non CB	554	Big Boat	35/16	184	71/4	72	Torlon	547	25	10	HBB28	—	
		Non CB	587	Big Boat	35/16	133	51/4	50	Torlon	547	25	10	HBB1	—	
		Non CB	HC4928	Big Boat	35/16	260	101/4	104	Torlon	547	25	10	HBB25	—	
		Non CB	3072	Mini-Maxi	43/8	348	1331/16	84	Torlon	MP-128	1	1/2	HBB72	—	

TRAVELER

GENOA LEAD

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