

Quick Service

BATTCARS

Standard Systems



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.

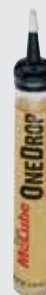
Service items:

- Earth-friendly detergent; McLube OneDrop; Water hose

Inspect Carefully for:

- **Cracked, corroded, or elongated batten toggles:** Replace immediately.
- **Loose car fasteners:** Check all locknuts, cotter pins and batten receptacle screws.
- **Loose track screws or tracks out of alignment:** Run car up and down track with retrieval line.
- **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.

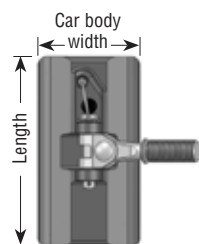
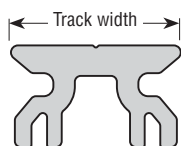


Use single drop. Too much attracts dirt. Do not use McLube Sailkote as it causes cars to skid instead of roll.

PART IDENTIFICATION

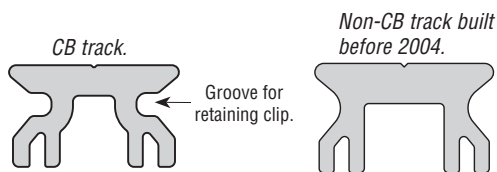
Method

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 stud toggle or batten receptacle) to the nearest few millimeters or 1/16 of an inch to determine system size.
3. If it is a System A, B, or C, ask about the presence of black endcaps covering the short sides of the car. They are visibly different from the rest of the car body and are attached with 2 screws. Endcaps indicate an earlier non-captive bearing (non-CB) design.
4. Use the Car Length column in the Car Identification & Ball/Becket Replacement chart on back.



CB (captive bearing). Non-CB with endcaps.

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



Car and track widths

System size	Slider car		Ball bearing car		Track	
	in	mm	in	mm	in	mm
AA	1	25	1 ¹ / ₁₆	40	1/2	13
A	1 ¹ / ₈ ; low-load 1 ¹ / ₄	35; low-load 32	2 ¹ / ₄	57	7/8	22
B	1 ¹¹ / ₁₆	42	2 ³ / ₄	70	1 ¹ / ₁₆	27
C	—	—	3 ³ / ₈	85	1 ¹ / ₄	32

Loctite is a trademark of Henkel AG & Company KGaA.
Torlon is a registered trademark of Solvay Advanced Polymers.

SERVICEABILITY

Dealer replaceable parts

- All track components
- Car components including bearings, becketts, endcaps, and CB wire clips (see charts)
- Harken Battcar receptacles
- Some Harken-supplied Battslide components
- Clevis pins (similarly sized off-the-shelf pins are usually compatible)
- Car loaders for non-captive bearing 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®, and instructions.



Parts included.

Part No.	Description	Torlon® Ball Quantity
HSB501	System A	64
HMR99	System B	60
HBB197	System C	60

Endcap Sets

System size	Description	Part No.
A	Plastic	HSB78
B	Plastic	HMR3
B	Aluminum	HC1653
C	Plastic	HBB48
C	Aluminum	HC289



Parts included.

Car Loaders

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

System size	Description	Part No.
A	Car loader	HSB116
B	Car loader	HMR2
C	Car loader	HBB1



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	System Size	Car Length		Wire Clip Pre-2015 (Order 2)	CB+ Wire Clip 2015 (Order 2)	CB+ Corner Keeper (Order 4)
		in	mm			
22 mm	A	2 1/4	57	MS-1014	MS-1051	MP-1988
		2 7/8	73	MS-1010	MS-1050	MP-1988
		4 1/8	105	MS-1047	MS-1047	MP-1988
27 mm	B	2 9/16*	68*	MS-1020	MS1046	MP-1989
		4 1/4	108	MS-1021	MS1049	MP-1989
		5 3/16	132	MS-1022	MS1048	MP-1989
32 mm	C	3 3/4	96	MS-1030	MS-1056	MP-1990
		5 3/8	136	MS-1031	MS-1053	MP-1990
		9 1/8	231	MS-1033	MS-1055	MP-1990

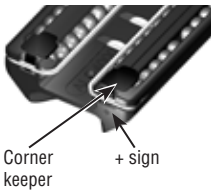


*Look for dimple in center. If no dimple, replace car.



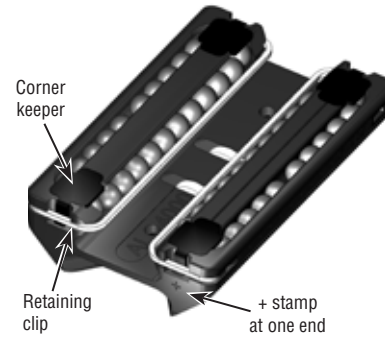
CB+ Car Identification

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




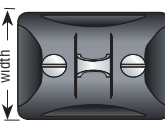
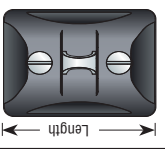






Remove corner keepers and retaining clips and load balls using car loader.

CB+ Car Underside



BATT CAR

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	
																	
		CB only	3813	System AA CB headboard	1 ⁹ / ₁₆	40	2 ² / ₁₆	56	40	Torlon	2708	20 x 2	3 ⁷ / ₁₆	5	—	—	
		CB only	3815	System AA CB intermediate car	1 ⁹ / ₁₆	40	2 ² / ₁₆	56	40	Delrin	492	20	3 ⁷ / ₁₆	5	—	—	
		CB only	3816	System AA CB Battcar	1 ⁹ / ₁₆	40	2 ² / ₁₆	56	40	Torlon	2708	20	3 ⁷ / ₁₆	5	—	—	
		CB+	3811	System A CB headboard	2 ³ / ₁₆	56	4 ¹ / ₈	105	60 x 2	Torlon	177	21	1 ¹ / ₄	6	—	—	HSB116 x 2
		CB+	3812	System A CB intermediate car	2 ² / ₁₆	56	2 ¹ / ₄	57	32	Torlon	177	21	1 ¹ / ₄	6	—	—	HSB116
	Feb-Mar 2015	CB+	3829, 3830, 3831, 3881	System A CB Battcar	2 ³ / ₁₆	56	2 ¹ / ₈	73	40	Torlon	177	21	1 ¹ / ₄	6	—	—	HSB116
		CB+	3882, 3883	System A CB high-load	2 ³ / ₁₆	56	4 ¹ / ₈	105	60	Torlon	177	21	1 ¹ / ₄	6	—	—	HSB116
		Non-CB	1792, 1807	System A headboard car	2 ³ / ₁₆	56	3 ⁵ / ₈	92	52 x 2	Torlon	177	21	1 ¹ / ₄	6	HSB116 x 2	—	—
		Non-CB	1925, 1901, 1944, 1976, 1977	System A batten bar	2 ² / ₁₆	56	3	76	40	Torlon	177	21	1 ¹ / ₄	6	HSB116	—	—
		Non-CB	1894	System A luff car	2 ³ / ₁₆	56	2 ¹ / ₈	54	30	Torlon	177	21	1 ¹ / ₄	6	HSB116	—	—
		CB+	3852	System B CB headboard	2 ³ / ₄	70	5 ³ / ₁₆	132	60 x 2	Torlon	1526	25	5 ⁷ / ₁₆	8	—	—	HMR2 x 2
		CB+	3863	System B CB intermediate car	2 ³ / ₄	70	2 ⁹ / ₁₆	68	28	Torlon	1526	25	5 ⁷ / ₁₆	8	—	—	HMR2
	Jan-Feb 2015	CB+	3856, 3857, 3859, 3879	System B CB Battcar	2 ³ / ₄	70	4 ⁵ / ₁₆	109	48	Torlon	1526	25	5 ⁷ / ₁₆	8	—	—	HMR2
		CB+	3860	System B CB reef car	2 ³ / ₄	70	5 ³ / ₁₆	132	60	Torlon	1526	25	5 ⁷ / ₁₆	8	—	—	HMR2
		Non-CB	1793	System B headboard car	2 ³ / ₄	70	4 ³ / ₈	111	48 x 2	Torlon	1526	25	5 ⁷ / ₁₆	8	HMR2 x 2	—	—
		Non-CB	1979	System B intermediate car	2 ³ / ₄	70	3 ¹³ / ₁₆	97	40	Torlon	1526	25	5 ⁷ / ₁₆	8	HMR2	—	—
		Non-CB	1794, 1826, 1902, 1946, 1978, 1980	System B batten car	2 ³ / ₄	70	3 ¹³ / ₁₆	97	40	Torlon	1526	25	5 ⁷ / ₁₆	8	HMR2	—	—
		Non-CB	1895	System B luff car	2 ³ / ₄	70	2 ³ / ₄	70	30	Torlon	1526	25	5 ⁷ / ₁₆	8	HMR2	—	—
		CB+	3867	System C CB headboard	3 ⁵ / ₁₆	85	9 ¹ / ₈	232	90 x 2	Torlon	547	25	3 ⁷ / ₈	10	—	—	HBB25 x 2
		CB+	3871	System C CB intermediate car	3 ⁵ / ₁₆	85	3 ³ / ₄	96	34	Torlon	547	25	3 ⁷ / ₈	10	—	—	HBB1
	May 2015	CB+	3868, 3869, 3870, 3872	System C CB Battcar	3 ⁵ / ₁₆	85	5 ³ / ₈	136	50	Torlon	547	25	3 ⁷ / ₈	10	—	—	HBB1
		CB+	3873	System C CB reef car	3 ⁵ / ₁₆	85	9 ¹ / ₈	231	90	Torlon	547	25	3 ⁷ / ₈	10	—	—	HBB25
		Non-CB	1782	System C headboard car	3 ⁵ / ₁₆	85	5 ¹ / ₂	140	52 x 2	Torlon	547	25	3 ⁷ / ₈	10	HBB1 x 2	—	—
		Non-CB	1784, 1795, 1827, 1828, 1829, 1903	System C batten car	3 ⁵ / ₁₆	85	4 ² / ₄	121	44	Torlon	547	25	3 ⁷ / ₈	10	HBB1	—	—
		Non-CB	1785	System C luff car	3 ⁵ / ₁₆	85	4	102	36	Torlon	547	25	3 ⁷ / ₈	10	HBB1	—	—
		Non-CB	1785HL	System C high-load luff car	3 ⁵ / ₁₆	85	4	102	36	Torlon	547	25	3 ⁷ / ₈	10	HBB1	—	—

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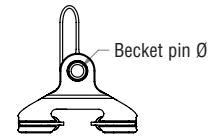
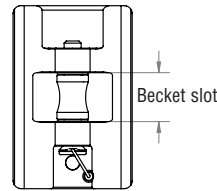
Quick Service

BATTCARS

Standard systems

CAR IDENTIFICATION & BALL/BECKET REPLACEMENT

Use chart to find becket and 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 family.

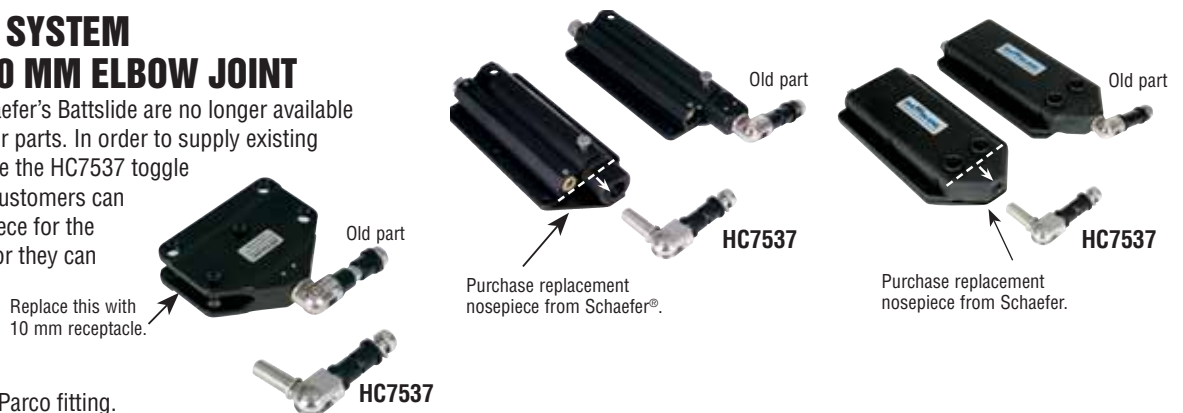


System Size	Identify your car			Ball Bearing Replacement						Becket Replacement			
	Car Part No.	Description	Car Length in mm	Ball material	Balls per car	Balls per set	Ball Ø in mm	Ball Part No.	Becket slot in mm	Becket pin Ø in mm	Becket Part No.		
AA	3813	CB headboard	5 ³ / ₁₆ 132	Torlon®	40	20	3/16 5	2708	—	—	—		
	3814	Slider intermediate	1 ³ / ₄ 44	—	—	—	—	—	3/4 19	0.197 5	MP-0409		
	3815	CB intermediate	2 ³ / ₁₆ 56	Delrin®	40	20	3/16 5	2708	3/4 19	0.197 5	MP-0409		
	3816	CB Battcar	2 ³ / ₁₆ 56	Torlon	40	20	3/16 5	2708	—	—	—		
A	3811**	CB headboard	8 ³ / ₈ 213	Torlon	60	21	1/4 6	177	—	—	—		
	3812**	CB intermediate	2 ¹ / ₄ 57	Torlon	32	21	1/4 6	177	3/4 19	0.197 5	MP-0409		
	3828	Slider intermediate	1 ³ / ₄ 44	—	—	—	—	—	3/4 19	0.197 5	MP-0409		
	3829**/3830**	CB Battcar	2 ⁷ / ₈ 73	Delrin/Torlon*	40	21	1/4 6	176/177*	—	—	—		
	3831	CB Battcar	2 ⁷ / ₈ 73	Delrin/Torlon*	40	21	1/4 6	176/177*	3/4 19	0.197 5	MP-0409		
	1792/1807	Non-CB headboard	3 ³ / ₈ 92	Torlon	52	21	1/4 6	177	—	—	—		
	1777	Slider intermediate	2 51	—	—	—	—	—	3/4 19	0.197 5	MP-0409		
	1894	Non-CB intermediate	2 ¹ / ₈ 54	Delrin/Torlon*	30	21	1/4 6	176/177*	3/4 19	0.188 4.76	MP-0405		
	1976/1944 1825/1901	Non-CB Battcar	3 76	Delrin/Torlon*	40	21	1/4 6	176/177*	—	—	—		
	1977	Non-CB Battcar	3 76	Delrin/Torlon*	40	21	1/4 6	176/177*	3/4 19	0.188 4.76	MP-0708		
B	3852**	CB headboard	10 ¹ / ₂ 267	Torlon	60	25	5/16 8	1526	—	—	—		
	3863**	CB intermediate	2 ³ / ₁₆ 68	Delrin/Torlon*	28	25	5/16 8	1583/1526*	3/4 19	0.188 4.76	MP-0708		
	3836	Slider intermediate	2 ³ / ₁₆ 56	—	—	—	—	—	3/4 19	0.188 4.76	MP-0708		
	3856**/3857/3879	CB Battcar	4 ³ / ₁₆ 109	Delrin/Torlon*	45	25	5/16 8	1583/1526*	—	—	—		
	3859	CB Battcar	4 ⁵ / ₁₆ 109	Delrin/Torlon*	48	25	5/16 8	1583/1526*	1 26	0.394 10	MP-0708		
	3860	CB reef car	5 ³ / ₁₆ 132	Delrin/Torlon*	60	25	5/16 8	1583/1526*	1 26	0.394 10	MP-0708		
	1973	Non-CB headboard	4 ³ / ₈ 111	Torlon	48	25	5/16 8	1526	—	—	—		
	1978/1946 1794/1826/1902	Non-CB Battcar	3 ¹³ / ₁₆ 97	Delrin/Torlon*	40	25	5/16 8	1583/1526*	—	—	—		
	1979	Non-CB Battcar	3 ¹³ / ₁₆ 97	Delrin/Torlon*	40	25	5/16 8	1583/1526*	—	—	—		
	1895	Non-CB intermediate	2 ³ / ₄ 70	Delrin/Torlon*	30	25	5/16 8	1583/1526*	7/8 22	0.25 6.35	MP-0708		
C	1980	Non-CB Battcar	3 ³ / ₁₆ 97	Delrin/Torlon*	40	25	5/16 8	1583/1626*	7/8 22	0.25 6.35	MP-0708		
	3867	CB headboard	18 ⁵ / ₈ 473	Torlon	90	25	3/8 10	547	—	—	—		
	3871	CB intermediate	3 ³ / ₄ 96	Torlon	34	25	3/8 10	547	1 26	0.394 10	H-39069A		
	3868/3869/3870	CB Battcar	5 ³ / ₈ 136	Torlon	50	25	3/8 10	547	—	—	—		
	3872	CB Battcar	5 ³ / ₈ 136	Torlon	50	25	3/8 10	547	1 ³ / ₈ 35	0.472 12	H-42227		
	3873	CB reef car	9 ¹ / ₈ 231	Torlon	90	25	3/8 10	547	1 ³ / ₈ 35	0.472 12	H-42227		
	1782	Non-CB headboard	5 ¹ / ₂ 140	Torlon	50	25	3/8 10	547	—	—	—		
	1785	Non-CB intermediate	4 102	Torlon	36	25	3/8 10	547	1 ¹ / ₁₆ 27	0.313 7.94	MP-0803		
	1784/1795/1827 1828/1829/1903	Non-CB Battcar	4 ³ / ₄ 121	Torlon	42	25	3/8 10	547	—	—	—		

*Torlon used on all high-load "HL" cars. **Available as a non-CB car on a car loader to run on a non-CB style track supplied before 2003 (2004 for System B). Add .NW to end of part number.

HC7537 RETROFIT SYSTEM A/B BATTSIDE® 10 MM ELBOW JOINT

The elbow fittings on Schaefer's Battslide are no longer available and they do not have repair parts. In order to supply existing systems with a fix, we have the HC7537 toggle fitting with 10 mm stud. Customers can purchase a 10 mm nose piece for the receptacle from Schaefer or they can buy a new receptacle to accept a 10 mm stud from: Bainbridge® Sailman™, Rutgerson, Antal or North Sails® new Parco fitting.



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