

**Existing Passenger Equipment  
With Features that Do Not Comply  
With Federal Railroad Administration  
Interpretation of Safety Appliance Regulations**

**July 23, 2004**

<b>Railroad</b>	<b>Equipment Type Model</b>	<b>Manufacturer Year Delivered</b>	<b>Number of Vehicles</b>	<b>Car Numbers</b>	<b>Weld Inspection</b>	<b>Interpreted by FRA as Non-Compliant Feature</b>
Long Island	Bi-level coaches and cab cars	Kawasaki	134	5001-5023—C3 Cab 4002-4134 (even) trailer 4001-4087 (odd) toilet	Required	Sill step bolted to a bracket welded to the carbody
Amtrak	F59-PHI Locomotives	EMD	21	450-471	Required	Side and rear step mounts welded to car body
Amtrak	Genesis Locomotives	GE	286	1-207; 500-519; 700-717; 800-843	Required	2 rear end handholds bolted to block welded to endplate (Photo 3)
Amtrak	Single level cars	Bombardier-1989 & 1990	103	51000 - 54584	Required	4 end handholds bolted to block welded to carbody
Amtrak	Electric Locomotives	ASEA – 1980 & 1988	52	900-953	Required	Handholds bolted to welded block; step bolted to welded bracket.
Amtrak	Bi-Level Transition Sleepers	Bombardier – 1993	47	39000-39049	Required	Rear handhold bolted to welded block.
Amtrak	Sleeper (11-bedroom)*	Heritage	1	2234*		
Amtrak	Sleeper (10-6 ADA)*	Heritage	6	2438-2463*		
Amtrak	Dorm/(Sm.) Lng.	Heritage	24	2500-2524		
Amtrak	Lounge*	Heritage	1	3106*		
Amtrak	Long-haul Coach*	Heritage	1	4012*		
Amtrak	Long-haul Coach(ADA)*	Heritage	4	4606-4624*		
Amtrak	Coach (ADA)	Heritage	2	7000-7007		
Amtrak	Coach	Heritage	9	7600-7629		
Amtrak	Diner/Diner Grill	Heritage	23	8501-32, 8550-59		
Amtrak	Kitchen Buffet*	Heritage	1	8750*		
Amtrak	Dome-Lounge	Heritage	1	10031		
Amtrak	High-Level Coach	Heritage	5	39940-39957		
Amtrak	High Level Lounge	Heritage	5	39970-39975		

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Amtrak	Cab Baggage Cars	EMD – 1976-1981	18	90200 - 90368	FRA Review	Welded steps
MBTA	F40PH2 Locomotives F40PH2C	EMD1978-80 EMD 1987-88	18 25	1000-1017 1050-1075	Not Required	Uncoupling lever bolted to bracket welded to the car body.
					Required	Corner step assembly bolted to bracket welded to carbody
					Required	Sill step handhold bolted to bracket welded to sill step
					Required	Step Bolted to bracket welded to fuel tank
MBTA	Single level coaches	Bombardier-1987	40	350-389	Required	4 end handholds bolted to block welded to carbody
MBTA	Single level coaches	Bombardier-1989	54	600-653	Required	4 end handholds bolted to block welded to carbody
MBTA	Single level cab cars	Bombardier-1989	53-1 out of service	1600-1652	Required	4 end handholds bolted to block welded to carbody
MBTA	Bi-level coaches	Kawasaki-1990	50	700-749	Required	4 end handholds bolted to block welded to carbody
MBTA	Bi-level coaches	Kawasaki-1997	17	750-766	Required	4 end handholds bolted to block welded to carbody
MBTA	Bi-level cab cars	Kawasaki-1990	25	1700-1724	Required	4 end handholds bolted to block welded to carbody
MBTA	GP40MC Locomotive	AMF reman.-1997	25		Required	Handrails bolted to welded bracket
					Not required	Rear door stair treads bolted to welded bracket
MBTA	F40PH2M Locomotive	EMD/MK 1991-1993	12	1025-1036	Required	End Handhold welded to spacer block
NJT	F40PH2 Locomotives	EMD	17	4113-4129	Not Required	Uncoupling lever bolted to bracket welded to the car

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					Required	body. Corner step assembly bolted to bracket welded to carbody
					Required	Sill step handhold bolted to bracket welded to sill step
					Required	Step bolted to bracket welded to fuel tank
NJT	ALP-44 Locomotive		32	4400-4431		
NJT/MNR	Comet IIA single level cars	Bombardier-1983	9	5175-5177, 5988-5993	Required	4 end handholds bolted to block welded to carbody
NJT	Comet IIB single level cars	Bombardier-1987/1988	52	5178, 5986, 5987, 6000-6003, 5752-5771, 5800-5824	Required	4 end handholds bolted to block welded to carbody
NJT	Comet I Rehabbed into Comet IIB single level cars	Pullman Standard 1970	147	5100, 5101, 5103-5111, 5113-5121, 5123-5134, 5707-5751, 1600-1606, 1608, 1609, 1700-1760	Required	4 end handholds bolted to block welded to carbody
NJT	Comet II single level cars	Bombardier	162	5300-5459, 5980-5983, 5173, 5174	Required	4 end handholds bolted to block welded to carbody
NJT	Comet III single level cars	Bombardier-1991	51 (2 operated by MNR)	5000-5008, 5200-5205 5500-5503,5505-5534 5179, 5180 (5504 missing?)	Required	4 end handholds bolted to block welded to carbody
NJT	Comet IV single level cars	Bombardier-1996	99	5009-5028, 5235-5264 5535-5582	Required	4 end handholds bolted to block welded to carbody
NJT	Comet IV single level cars	Bombardier-1996	4 (?)	5029-5031, 5583 (These car nos. not in Bombardier delivery listing.)	Required	4 end handholds bolted to block welded to carbody

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SEPTA	Single level cars	Bombardier-1988	35	2401-2410, 2501-2525	Required	4 end handholds bolted to block welded to carbody
SEPTA	Single level cars	Bombardier-1998	10	2550-2559	Required	4 end handholds bolted to block welded to carbody
Metro-North Railroad	Single level coaches Shoreliner 19 (NJT Comet II Type)	Bombardier	MNR Owned-19 CONNDOT Owned-20	MNR Odd Nos of 6101-6109 and 6151-6159, Even Nos of 6150-6166 CONNDOT Odd Nos of 6201-6209 and 6251-6259, Even Nos of 6250-6268	Required	4 end handholds bolted to block welded to carbody (Photo 1)
Metro-North Railroad	Single level coaches Shoreliner 21 (NJT Comet II Type)	Bombardier	MNR Owned- 21 CONNDOT Owned- 0	Odd Nos of 6111-6119 and 6161-6173, Even Nos of 6168-6184	Required	4 end handholds bolted to block welded to carbody (Photo 1)
Metro-North Railroad	Single level coaches Shoreliner 34 (NJT Comet III Type)	Bombardier	MNR Owned- 8 CONNDOT Owned- 10	MNR 6121,6123, 6175, 6177, 6179, 6186, 6188, 6190 CONNDOT Odd Nos of 6211-6219, Even Nos of 6270-6278	Required	4 end handholds bolted to block welded to carbody (Photo 2)
Metro-North Railroad	Single level coaches Shoreliner 38 (NJT Comet IV Type)	Bombardier	MNR Owned- 99 CONNDOT Owned- 10	MNR 6300 and 6400 series CONNDOT Even Nos 6280-6298	Required	4 end handholds bolted to block welded to carbody (Photo 2)
Metro-North Railroad	P32AC-DM "Genesis" Locomotive	GE	MNR Owned- 27 CONNDOT Owned- 4	MNR 201-227 CONNDOT 228-231	Required  FRA Review	2 rear end handholds bolted to block welded to endplate (Photo 3) <b>Undetermined Non-Compliance:</b> <ul style="list-style-type: none"> <li>4 Sill ladders bolted to bracket welded to sill (Photo 4)</li> <li>Carbody entrance steps</li> </ul>

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						bolted to angle welded to carbody (Photo 5)
Tri-Rail	F40PHM-2C Locomotive	EMD	3	807-809	Required	End Handholds bolted to welded spacer block
Tri-Rail	Bilevel Cab Cars	UTDC Bombardier	8	1013-1015 507-511	Not Required	Sill step bolted to welded bracket. Weld not visible
Tri-Rail	Bilevel Coaches	UTDC Bombardier	18	501-506 1001-1012	Not Required	Sill step bolted to welded bracket. Weld not visible
VRE	Bilevel Cab Cars	Bombardier Leased	2		Not Required	Sill step bolted to welded bracket. Weld not visible
VRE	Bilevel Coaches	Bombardier Leased from Sounder	8		Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
VRE	GP-40	EMD	5	V20-V24	Required	similar to GP-39
VRE	F-40	EMD	4	V30-V33	FRA Review	Welded steps – rear & operator’s cab entrance
VRE	GP-39 Locomotives	EMD	10	V01-V10	Required	Corner steps bolted to bracket welded to carbody
VRE	FP59	EMD	2	V40-V41	Required	Side and rear step mounts welded to car body
VRE	Single level cab car	Mafersa	10	V901-V910	FRA Review	End or car grab iron. FRA interpretation of attachment not certain.
VRE	Single level coach	Mafersa	28	V201-V227	FRA Review	End or car grab iron. FRA interpretation of attachment not certain.
VRE	Bi-level cab car	Kawasaki	4	V701-V704	Should Not be Req’d	
VRE	Bi-level coach	Kawasaki	9	V601-V609	Should Not be Req’d	

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VRE	Bi-level gallery coach I	Pullman	5	V405, V408,V412, V413,V415	Should Not be Req'd	
VRE	Bi-level gallery coach II	Pullman	10	V421-V430	Should Not be Req'd	
VRE	Bi-level gallery coach I	Pullman	35	V431-V465	Should Not be Req'd	
SCRRA	F59PH Locomotive	EMD	31	851-881	Required	Side and rear step mounts welded to car body
SCRRA	Bilevel Cab Cars	Bombardier	37	601-637	Not Required	Sill step bolted to welded bracket. Weld not visible
SCRRA	Bilevel Coaches	Bombardier	81	101-187	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
Metra	F40PH Locomotives	EMD	115	100-214	Not Required	Uncoupling lever bolted to bracket welded to carbody.
				100-214	Required	Corner step assembly bolted to bracket welded to carbody
				100-214	Required	Sill step handhold bolted to bracket welded to sill step
				128-214	Required	Step bolted to bracket welded to fuel tank
				185-214	FRA TBD	Top cab step bolted to welded Assembly
				100-173	FRA TBD	Cab sill steps welded to carbody
Metra	F40PH-2C		15	600-614	Not Required	Corner Steps Welded to Carbody

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					Not required  FRA TBD	Uncoupling lever bolted to bracket welded to carbody  Cab sill step assembly bolted on outside but 3' x 3/4" reinforcing bar is welded to the inside
Metra	MP36PH-3S	Motive Power Wabtec	27		FRA TBD	Cab step treads welded to step pocket
Metra	Gallery Cars	Budd			Required	Diaphragm grab iron bolted to bracket welded to carbody
Metra	Switcher Locomotive		5	NIRC 2-3  NIRC 1-2  NIRC 6-7	Not Required  FRA TBD  Required	Welded Pin Uncoupler  Weld cab entrance step  Grab iron bolted to bracket welded to car body
Caltrain	F40PH Locomotives	EMD	20	900-919	Not Required  Required  Required  Required	Uncoupling lever bolted to bracket welded to the car body.  Corner step assembly bolted to bracket welded to carbody  Sill step handhold bolted to bracket welded to sill step  Step bolted to bracket welded to fuel tank
Caltrain	MP36PH-3C	Motive Power Wabtec	6		Required	End hand hold bolted to welded spacer block

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					FRA TBD	Cab steps treads welded to step pocket
Caltrain	F40PHM-2C Locomotive	MotivePower/Boise	3		Required	End hand holds bolted to welded spacer block.
Sounder	F59PH Locomotive	EMD	6	901-906	Required	Side and rear step mounts welded to car body
Sounder	Bilevel Cab Cars	Bombardier	13	101-113	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
Sounder	Bilevel Coaches	Bombardier	13	201-214	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
TRE	Bi-level coaches and cab cars	Hawker Siddley 1983 ?	12	1000,1001,1050,1051,1052,10521053,1054,1055,1056,1057,10581059	FRA Review	Steps and uncoupling lever mounting bracket welded to car body
TRE	Bi-level cab cars	Bombardier 2000, 2003	5	1002,1003,1004,1005,1006	Not Required	Steps and uncoupling lever mounting bracket welded to car body
TRE	Rail Diesel Cars	Budd 1950's ?	13	2001,2002,2003,2004,2005,20062007,2008,2009,2010,2011,20122013	FRA Review	Handhold mounting brackets welded to trap door, uncoupling lever mounting brackets welded to car body
TRE	F59PH Locomotives	EMD, 1994	4	565,566,567,568	Required	Uncoupling lever brackets welded to car body,step mounting brackets welded to fuel tank, handhold mounting brackets welded to car body
TRE	F59PHI Locomotives	EMD, 2002	2	569,570		Side and rear step mounts welded to car body
Altamont	F40PH-2C Locomotives	Motive Power Inc. 1998, 2000	5	3101-3103 3104,3105	Required	End hand holds bolted to welded spacer block

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Altamont	Bilevel Cab Cars	Bombardier 1998, 2000	9	3301-3304 3305-3309	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
Altamont	Bilevel Coaches	Bombardier 1998, 2001, 2003	15	3201-3204 3205-3211 3212-3215	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
Coaster	F40PHM-2C Locomotive	MK/Boise	5	2101-2105	Required	End hand holds bolted to welded spacer block
Coaster	F59PHI Locomotive	EMD	2	3001, 3002	Not Required  Required  Required	Uncoupling lever bolted to bracket welded to the car body.  Corner step assembly bolted to bracket welded to carbody  Sill step handhold bolted to bracket welded to sill step
Coaster	Bilevel Cab Cars	Bombardier	10	2301-2310	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
Coaster	Bilevel Coaches	Bombardier	18	2201-2208 2401-2406 2501-2504	Not Required	Sill step bolted to welded bracket. Weld not visible to inspect
State of North Carolina	List of Equipment TBD					

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MARC	Single level coaches and cab cars	Sumitomo	63	7700-7735 (Trailer) 7745-7762 (Cab) 7791-7799 (E&H)	FRA TBD	Step assembly bolted to frame which is welded to car body.
MARC	Bi-Level coaches and	Kawaski	50	7800-7825 (Trailer)	FRA TBD	Step assembly bolted to frame

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	cab cars			7845-7854 (Cab) 7870-7876 (Snack) 7890- 7896 (E&H)		which is welded to car body
MARC	Single level coaches	Budd	7	132,133,143,144,145,147,149	Required	Handholds bolted to welded post; uncoupling lever bolted to welded post.
MARC	Single level coaches	Pullman Gallery	12	7900-7912	Required	Handholds bolted to welded post; uncoupling lever bolted to welded post.
MARC	GP-40 Locomotive	EMD	19	51-69	Required	Grab iron bracket welded to car body; step bracket welded to car body.
MARC	GP-39 Locomotive	EMD	6	70-75	Required	Grab iron bracket welded to car body; step bracket welded to car body.
MARC	AEM-7 Locomotive	EMD/ASEA	4	4900-4903	Required  Not Required  FRA TBD	Handholds bolted to welded post;  uncoupling lever bolted to welded post.  Steps secured to welded support.
Alaska RR	SD-70 MAC Loco	EMD 2000	15	4001-4016		
Alaska RR	SD-70 MAC HEP	EMD 2004	8	4317-4325		
Alaska RR	GP-40-2		15	3001-3016		
Alaska RR	GP-49		9	2801-2809		
Alaska RR	GP-38-2		8	2001-2008		
Alaska RR	MP-15-DC		4	1551-1554		