

Table 1

Table A-3. SMS Vehicle Maintenance BASIC Violations ¹						
Section	Violation Description Shown on Driver/Vehicle Examination Report Given to CMV Driver after Roadside Inspection	Violation Group Description	Previous Severity Weight (Cargo-Related only)	Violation Severity Weight ²	Violation in the DSMS (Y/N)	Comment
396.3A1BOS*	BRAKES OUT OF SERVICE: The number of defective brakes is equal to or greater than 20% of the service brakes on the vehicle or combination	Brakes, All Others		0 + 2 (OOS)	N	Added in 3.0.7
392.63	Pushing/towing a loaded bus	Towing Loaded Bus		10	Y	
392.64	Riding within the closed body of a commercial vehicle without exits	Towing Loaded Bus		10	Y	Added in 3.0.9
396.9(c)(2)	Operating an out-of-service vehicle	Vehicle Jumping OOS		10	Y	
393.75(a)	Flat tire or fabric exposed	Tires		8	Y	
393.75(a)(1)	Tire-ply or belt material exposed	Tires		8	Y	
393.75(a)(2)	Tire-tread and/or sidewall separation	Tires		8	Y	
393.75(a)(3)	Tire-flat and/or audible air leak	Tires		8	Y	
393.75(a)(4)	Tire-cut exposing ply and/or belt material	Tires		8	Y	
393.75(b)	Tire-front tread depth less than 4/32 of inch on a major tread groove	Tires		8	Y	
393.75B-OOS ^A	Tire-front tread depth less than 2/32 of inch on a major tread groove	Tires		8	Y	Added in 3.0.8
393.75(c)	Tire-other tread depth less than 2/32 of inch measured in a major tread groove	Tires		8	Y	Updated description in 3.0.9
393.75C-OOS ^A	Tire-other tread depth less than 1/32 of inch measured in 2 adjacent major tread grooves 3 separate locations 8 inches apart	Tires		8	Y	Updated description in 3.0.9
393.75(d)	Regrooved or recapped tire on front wheel of bus	Tires		8	Y	
393.75F-SPEED ^A	Operating a CMV at speeds exceeding the speed-restriction label of the tire.	Tires		8	Y	Added in 3.0.8
396.3A1T	Tires (general)	Tires		8	Y	
396.3A1-TC ⁴	Tire in contact with another part of the vehicle	Tires		8	Y	Added in 3.11
396.3A1-TM ⁴	Tires - Not for Highway User used on Steering Axle	Tires		8	Y	Added in 3.11
396.3A1-TP ⁴	Tires - Use of Tire Plug or Cord	Tires		8	Y	Added in 3.11
396.7A-LT ⁴	Solid item lodged between dual tires	Tires		8	Y	Added in 3.11
393.100(b)	Leaking/spilling/blowing/falling cargo	Improper Load Securement	10	7	Y	
393.102(c)	Exceeding working load limit for tiedowns	Improper Load Securement	10	7	Y	
393.116(d)(1)	Shortwood log extends more than 1/3 of logs total length beyond supporting structure of vehicle	Improper Load Securement	10	7	Y	
393.116(d)(2)	Insufficient tiedowns for shortwood loaded crosswise	Improper Load Securement	10	7	Y	
393.116(d)(3)	Tiedowns improperly positioned on load of shortwood	Improper Load Securement	10	7	Y	
393.116(d)(4)	No center stakes and/or high log not secured on shortwood vehicles more than 10m (33ft) long	Improper Load Securement	10	7	Y	
393.116(e)	Improper Securement of shortwood logs loaded lengthwise	Improper Load Securement	10	7	Y	
393.118(b)	Improper placement of bundles	Improper Load Securement	10	7	Y	
393.120(b)(1)	Improper securement of metal coils transported vertically	Improper Load Securement	10	7	Y	
393.120(b)(2)	Improper securement of metal coils transported in rows with the eyes vertical	Improper Load Securement	10	7	Y	
393.120(c)(1)	Improper securement of metal coils transported with eyes crosswise	Improper Load Securement	10	7	Y	
393.120(c)(2)	Prohibited load securement - crossing tie-downs in a X pattern through the eye of a metal coil transported crosswise	Improper Load Securement	10	7	Y	
393.120(d)(1)	Improper securement of metal coil transported with eye lengthwise	Improper Load Securement	10	7	Y	
393.120(d)(4)	Improper securement of metal coils transported in rows, eyes lengthwise to the vehicle	Improper Load Securement	10	7	Y	
393.122(b)	Improper securement of paper rolls transported with eyes vertical in a sided vehicle	Improper Load Securement	10	7	Y	
393.122(c)	Improper securement of split loads of paper rolls transported with the eyes vertical in a sided vehicle	Improper Load Securement	10	7	Y	
393.122(d)	Improper securement of stacked loads of paper rolls transported with the eyes vertical in a sided vehicle	Improper Load Securement	10	7	Y	
393.122(e)	Improper securement of paper rolls transported with the eyes crosswise in a sided vehicle	Improper Load Securement	10	7	Y	
393.122(f)	Rolls crosswise/stacked load - improperly secured	Improper Load Securement	10	7	Y	
393.122(g)	Improper securement of paper rolls transported with the eyes lengthwise in a sided vehicle	Improper Load Securement	10	7	Y	
393.122(h)	Rolls lengthwise/stacked - improper securement	Improper Load Securement	10	7	Y	
393.122(i)	Improper securement of paper rolls transported on a flatbed vehicle or in a curtain-sided vehicle	Improper Load Securement	10	7	Y	
393.124(c)	Improper blocking of concrete pipe	Improper Load Securement	10	7	Y	
393.124(d)	Improper arrangement of concrete pipe	Improper Load Securement	10	7	Y	
393.124(e)	Improper securement of concrete pipe with an inside diameter up to 45 inches (1143 mm)	Improper Load Securement	10	7	Y	
393.124(f)	Improper securement of concrete pipe with an inside diameter greater than 45 inches (1143 mm)	Improper Load Securement	10	7	Y	
393.126(c)(2)	All corners of loaded intermodal container not secured when transported on vehicle other than container chassis vehicle	Improper Load Securement	10	7	Y	
393.126(c)(3)	Front and rear of loaded intermodal container not secured independently when transported on vehicle other than container chassis	Improper Load Securement	10	7	Y	
393.126(d)(1)	Empty intermodal container not properly positioned when transported on vehicle other than container chassis vehicle	Improper Load Securement	10	7	Y	

Table A-3. SMS Vehicle Maintenance BASIC Violations¹

393.126(d)(2)	Empty intermodal container with more than 5 ft overhang when transported on vehicle other than container chassis vehicle	Improper Load Securement	10	7	Y	
393.126(d)(4)	Empty intermodal container not properly secured to prevent shifting when transported on vehicle other than container chassis vehicle	Improper Load Securement	10	7	Y	
393.128(b)(1)	Vehicle not secured, front and rear	Improper Load Securement	10	7	Y	
393.128(b)(2)	Tiedown(s) not affixed to mounting points.	Improper Load Securement	10	7	Y	
393.128(b)(3)	Tiedown(s) not over/around wheels.	Improper Load Securement	10	7	Y	
393.130(b)	Item not properly prepared for transport	Improper Load Securement	10	7	Y	
393.130(c)	Improper restraint/securement of item	Improper Load Securement	10	7	Y	
393.132(c)(5)	Insufficient means to retain loose parts or leaking liquids from crushed cars	Improper Load Securement	10	7	Y	
393.134(b)(2)	Container not secured to front of vehicle	Improper Load Securement	10	7	Y	
393.134(b)(3)	Rear of container not properly secured	Improper Load Securement	10	7	Y	
393.136(b)	Improper placement/positioning for boulder	Improper Load Securement	10	7	Y	
393.136(c)(1)	Use of synthetic webbing to secure boulder	Improper Load Securement	10	7	Y	
393.136(d)	Improper secure; cubic boulder	Improper Load Securement	10	7	Y	
393.136(e)	Improper secure; non-cubic boulder w/base	Improper Load Securement	10	7	Y	
393.136(f)	Improper secure; non-cubic boulder w/o base	Improper Load Securement	10	7	Y	
393.207(a)	Axle positioning parts defective/missing	Suspension		7	N	
393.207(b)	Adjustable axle locking pins missing or not engaged	Suspension		7	Y	
393.207(c)	Leaf spring assembly defective/missing	Suspension		7	N	
393.207(d)	Coil spring cracked and/or broken	Suspension		7	N	
393.207(e)	Torsion bar cracked and/or broken	Suspension		7	Y	
393.207(f)	Air suspension pressure loss	Suspension		7	N	
393.207(g)	No / defective air suspension exhaust control	Suspension		7	N	
392.33	Operating CMV with lamps/reflectors obscured	Lighting		6	Y	
393.9BRKLAMP ³	Inoperative Brake Lamps	Lighting		6	Y	Added in 3.0.9
393.9H	Inoperable head lamps	Lighting		6	Y	
393.9T	Inoperable tail lamp	Lighting		6	Y	
393.9TS	Inoperative turn signal	Lighting		6	Y	
393.17	No/defective lamp/reflector-towaway operation	Lighting		6	Y	
393.17(a)	No/defective lamps-towing unit-towaway operation	Lighting		6	Y	
393.17(b)	No/defective towaway lamps on rear unit	Lighting		6	Y	
393.19	Inoperative/Defective Hazard Warning Lamp	Lighting		6	Y	Updated description in 3.0.9
393.24(a)	Non-compliance with headlamp requirements	Lighting		6	Y	
393.24(b)	Noncompliant fog/driving lamps	Lighting		6	Y	
393.24BR	Non-compliant fog or driving lamps	Lighting		6	Y	
393.24(c)	Improper Headlamp mounting	Lighting		6	N	Updated description in 3.0.9
393.24(d)	Improper Head / Auxiliary / Fog lamp aiming	Lighting		6	N	Updated description in 3.0.9
393.25(a)	Improper Lamp Mounting	Lighting		6	N	Updated description in 3.0.9
393.25(b)	Lamps are not visible as required	Lighting		6	Y	
393.25(e)	Lamp not steady burning	Lighting		6	Y	
393.25(f)	Stop lamp violations	Lighting		6	Y	
393.209(a)	Steering wheel not secured/broken	Steering Mechanism		6	Y	
393.209(b)	Excessive steering wheel lash	Steering Mechanism		6	Y	
393.209(c)	Loose steering column	Steering Mechanism		6	Y	
393.209(d)	Steering system components worn, welded, or missing	Steering Mechanism		6	Y	
393.209(e)	Power steering violations	Steering Mechanism		6	Y	
396.3A1-FA ⁴	Front Axle and any other steering components cracked/repair welded	Steering Mechanism		6	Y	Added in 3.11
396.3A1-PAW ⁴	Pitman Arm - welded / missing nuts	Steering Mechanism		6	Y	Added in 3.11
396.3A1-SGB ⁴	Steering Gear Box - welded	Steering Mechanism		6	Y	Added in 3.11
396.3A1-SSF ⁴	Sliding subframe rail defective	Steering Mechanism		6	Y	Added in 3.11
396.3A1-TRDL ⁴	Tie Rods / Drag Links - Defective Clamps / Holes / Missing nuts	Steering Mechanism		6	Y	Added in 3.11
396.3A1-TS ⁴	Tilt or Telescopic Steering defective	Steering Mechanism		6	Y	Added in 3.11
385.103(c)	Failure to display a current CVSA decal: Mexico-domiciled carrier with Provisional Operating Authority	Inspection Reports		4	N	
392.7	No pre-trip inspection	Inspection Reports		4	Y	
392.7(a)	Driver failing to conduct pre-trip inspection	Inspection Reports		4	Y	
392.7(b) ³	Driver failing to conduct a pre-trip inspection of Intermodal Equipment	Inspection Reports		4	Y	Updated description in 3.0.9
393.40	Inadequate brake system on a CMV	Brakes, All Others		4	N	
393.40B ⁴	Brakes - no pedal reserve	Brakes, All Others		4	Y	Added in 3.11
393.41	No or defective parking brake system on CMV	Brakes, All Others		4	N	
393.42	No brakes as required - Explain:	Brakes, All Others		4	Y	

Table A-3. SMS Vehicle Maintenance BASIC Violations¹

Code	Description	Category	Level	Frequency	Severity	Notes
393.42A-BM	Brake - Missing required brake.	Brakes, All Others	4	Y		
393.42A-BMAW	Brake - All wheels not equipped with brakes as required.	Brakes, All Others	4	Y		
393.42A-BM-TSA	Brake - Missing on a trailer steering axle.	Brakes, All Others	4	Y		
393.43	No/improper breakaway or emergency braking	Brakes, All Others	4	N		
393.43(a)	No/improper tractor protection valve	Brakes, All Others	4	Y		
393.43(d)	No or defective automatic trailer brake	Brakes, All Others	4	N		
393.44	No or defective bus front brake line protection	Brakes, All Others	4	Y		
393.45	Brake tubing and hose adequacy	Brakes, All Others	4	N		
393.45A-AJS ⁴	Air Brake tubing improperly joined or spliced	Breaks, All Others	4	N		Added in 3.0.9
393.45A-HBL ⁴	Hydraulic Brake - leaking on application	Breaks, All Others	4	N		Added in 3.11
393.45A-HJS ^ψ	Hydraulic Brake tubing improperly joined or spliced	Brakes, All Others	4	N		Added in 3.0.4
393.45PC	Brake Tubing and Hose Adequacy - Connections to Power Unit	Brakes, All Others	4	Y		
393.45UV	Brake Tubing and Hose Adequacy Under Vehicle	Brakes, All Others	4	N		
393.45(b)(2)	Brake hose or tubing chafing and/or kinking	Brakes, All Others	4	Y		
393.45B2PC	Brake Hose or Tubing Chafing and/or Kinking - Connection to Power Unit	Brakes, All Others	4	Y		
393.45B2UV	Brake Hose or Tubing Chafing and/or Kinking Under Vehicle	Brakes, All Others	4	N		
393.45(b)(3)	Brake hose or tubing contacting exhaust system	Brakes, All Others	4	N		
393.45(d)	Brake connections with leaks or constrictions	Brakes, All Others	4	N		
393.45DCPC	Brake Connections with Constrictions - Connection to Power Unit	Brakes, All Others	4	Y		
393.45DCUV	Brake Connections with Constrictions Under Vehicle	Brakes, All Others	4	N		
393.45DLPC	Brake Connections with Leaks - Connection to Power Unit	Brakes, All Others	4	Y		
393.45DLUV	Brake Connections with Leaks Under Vehicle	Brakes, All Others	4	Y		
393.47(a) ⁵	Inadequate brakes for safe stopping - Brake Lining condition	Brakes, All Others	4	N		Updated description in 3.11
393.47A-CD ⁴	Brake drum with external crack or crack that opens upon application	Brakes, All Others	4	N		Added in 3.11
393.47A-CR ⁴	Rotor (disc) cracked more than 75 percent of the friction surface completely through the rotor or completely through a solid rotor or completely through a structural support	Brakes, All Others	4	N		Added in 3.11
393.47A-RM ⁴	Brake rotor or drum - piece missing or in danger of falling away	Brakes, All Others	4	N		Added in 3.11
393.47A-RW ⁴	Brake rotor worn to or through center vents	Brakes, All Others	4	N		Added in 3.11
393.47(b)	Mis-matched brake chambers on same axle	Brakes, All Others	4	Y		
393.47(c)	Mis-matched slack adjuster effective length	Brakes, All Others	4	N		
393.47(d) ⁵	All Brakes - Insufficient brake lining thickness	Brakes, All Others	4	Y		Updated description in 3.11
393.47(e)	Clamp or Roto type brake out-of-adjustment	Brakes Out of Adjustment	4	N		
393.47(f)	Wedge type brake(s) out-of-adjustment	Brakes Out of Adjustment	4	N		
393.47(g)	Insufficient Brake Drum or Rotor thickness	Brakes, All Others	4	N		
393.48(a)	Inoperative/defective brakes	Brakes, All Others	4	N		
393.48A-BCM	Brakes - Hydraulic Brake Caliper movement exceeds 1/8" (0.125") (3.175 mm)	Brakes, All Others	4	N		
393.48A-BMBC ⁵	All Brakes - Missing or Broken Components including Pad Retaining Components and loose or missing caliper mounting bolt(s)	Brakes, All Others	4	N		Updated description in 3.11
393.48A-BRMMC	Brakes - Rotor (disc) metal-to-metal contact	Brakes, All Others	4	N		
393.48A-BS ⁴	Brake - Smoking	Brakes, All Others	4	Y		Added in 3.11
393.48A-BSRFS	Brakes - Severe rusting of brake rotor (disc)	Brakes, All Others	4	N		
393.48(b)(1)	Defective brake limiting device	Brakes, All Others	4	Y		
393.5	Inadequate reservoir for air/vacuum brakes	Brakes, All Others	4	N		
393.50(a)	Failing to have sufficient air/vacuum reserve	Brakes, All Others	4	N		
393.50(b)	Failing to equip vehicle air brake system with adequate reserve capacity or reservoir	Brakes, All Others	4	N		
393.50(c)	No means to ensure operable check valve	Brakes, All Others	4	N		
393.50(d)	No/Defective air reservoir drain valve	Brakes, All Others	4	N		
393.51 ⁵	No or defective brake warning device or pressure gauge	Brakes, All Others	4	Y		Updated description in 3.11
393.52(a)(1)	Insufficient Braking Force as a Percentage of Gross Vehicle Weight or Gross Combination Weight	Brakes, All Others	4	Y		
393.53(a)	No Automatic Brake Adjuster for Hydraulic Brake Systems for vehicle manufactured on or after 10/20/1993	Brakes, All Others	4	Y		
393.53(b)	CMV manufactured after 10/19/94 has an automatic airbrake adjustment system that fails to compensate for wear	Brakes, All Others	4	N		
393.53BMAN ^ψ	CMV manufactured after 10/20/1994 is not equipped with automatic air brake adjusters.	Brakes, All Others	4	N		Added in 3.0.4
393.53(c)	No or Defective Brake Adjustment Indicator on Air Brake System for vehicle manufactured after 10/19/1994	Brakes, All Others	4	N		
393.55(a)	ABS required on all CMVs with hydraulic brakes manufactured after February 1999	Brakes, All Others	4	N		
393.55(b)	ABS malfunction indicators for hydr brake sys	Brakes, All Others	4	N		
393.55(c)(1)	Truck Tractor manufactured on or after March 1, 1997 not equipped with an antilock brake system.	Brakes, All Others	4	N		
393.55(c)(2)	CMV other than truck-tractor manufactured on or after March 1, 1998 not equipped with an antilock brake system.	Brakes, All Others	4	N		
393.55(d)(1)	CMV not equipped with ABS malfunction circuit or signal (Truck-Tractor mfg on/after 3/1/1997; Straight Truck mfg on/after 3/1/1998)	Brakes, All Others	4	N		

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393.55(d)(2)	CMV manufactured on/after 3/1/2001 not equipped with ABS malfunction circuit / lamp from towed vehicle in cab.	Brakes, All Others		4	N	
393.55(d)(3)	No or Defective ABS Malfunction Indicator for towed vehicles on vehicles manufactured after February 2001	Brakes, All Others		4	N	
393.55(e)	No or Defective ABS Malfunction Indicator Lamp for trailer manufactured after 03/01/1998	Brakes, All Others		4	Y	
396.1	Must have knowledge of and comply with the Federal Motor Carrier Safety Regulations	Inspection Reports		4	Y	
396.3A1-AR ⁴	Brake - Defective Air Reservoir	Brakes, All Others		4	N	Added in 3.11
396.3A1B	Brakes (general) Explain:	Brakes, All Others		4	Y	
396.3A1BA	Bolt-type or DD-3 -type Brake Out of Adjustment	Brakes Out of Adjustment		4	N	
396.3A1BC	Brake-air compressor violation	Brakes, All Others		4	N	
396.3A1BD	Brake-defective brake drum	Brakes, All Others		4	N	
396.3A1-BFL ⁴	Brakes - Hydraulic Brake Failure Light missing, inoperative, or stays activated	Brakes, All Others		4	Y	Added in 3.11
396.3A1BL	Brake system pressure loss	Brakes, All Others		4	N	
396.3A1-BPA ⁴	Brakes - Hydraulic Brake Power Assist / Power Brake Unit / Brake Backup System Inoperative	Brakes, All Others		4	N	Added in 3.11
396.3A1-CH ⁴	Brake - Hole in Spring Brake Housing	Brakes, All Others		4	N	Added in 3.11
396.3A1-LC ⁴	Brake - Leak from air chamber	Wheels, Studs, Clamps, Etc.		4	Y	Added in 3.11
396.3A1-MCF ⁴	Brakes - Hydraulic Fluid level in Master Cylinder low	Brakes, All Others		4	N	Added in 3.11
396.9(d)(2)	Failure to correct defects noted on previous inspection report	Inspection Reports		4	N	
396.11	No or inadequate driver vehicle inspection report	Inspection Reports		4	Y	
396.13(c)	No reviewing driver signature on DVIR	Inspection Reports		4	Y	
396.17(c)	Operating a CMV without proof of a periodic inspection	Inspection Reports		4	N	
398.7	Inspection and Maintenance of motor vehicles used for Transportation of Migrant Workers	Inspection Reports		4	N	
393.11	No or defective lighting devices or reflective material as required	Reflective Sheeting		3	Y	
393.11LR	No Lower rear retroreflective sheeting or reflex reflective materials as required for vehicles manufactured after December 1993	Reflective Sheeting		3	Y	
393.11N	No retroreflective sheeting or reflex reflective materials as required for vehicles manufactured after December 1993	Reflective Sheeting		3	Y	
393.11RT	Retroreflective material not affixed as required for trailers manufactured after December 1993	Reflective Sheeting		3	Y	
393.11S	Side retroreflective sheeting or reflex reflector requirements for vehicles manufactured after December 1993	Reflective Sheeting		3	Y	
393.11TL	Truck-Tractor lower rear mud flaps retroreflective sheeting / reflex reflective material requirements for vehicles manufactured after July 1997	Reflective Sheeting		3	Y	
393.11TT	Truck-Tractor with No retroreflective sheeting or reflex reflective material on vehicle manufactured after July 1997	Reflective Sheeting		3	Y	
393.11TU	Truck-Tractor upper body corner requirements for retroreflective sheeting or reflex reflective material for vehicles manufactured after July 1997	Reflective Sheeting		3	Y	
393.11UR	Upper Rear retroreflective sheeting or reflex reflecting material requirements for vehicles manufactured after December 1993	Reflective Sheeting		3	Y	
393.13(a)	Retroreflective tape not affixed as required for Trailers manufactured prior to December 1993	Reflective Sheeting		3	Y	
393.13(b)	No retroreflective sheeting or reflex reflective material as required for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.13(c)(1)	No Side retroreflective sheeting or reflex reflective material as required for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.13(c)(2)	No Lower Rear retroreflective sheeting or reflex reflective material as required for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.13(c)(3)	No Upper Rear retroreflective sheeting or reflex reflective material as required for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.13(d)(1)	Improper Side Placement of retroreflective sheeting or reflex reflective material as required for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.13(d)(2)	Improper Lower Rear Placement of retroreflective sheeting or reflex reflective material requirements for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.13(d)(3)	Upper rear retroreflective sheeting or reflex reflective material as required for vehicles manufactured before December 1993	Reflective Sheeting		3	Y	
393.26	Requirements for reflectors	Reflective Sheeting		3	Y	
393.28	Improper or no wiring protection as required	Other Vehicle Defect		3	Y	
393.30	Improper battery installation	Other Vehicle Defect		3	Y	
393.68	CNG Fuel Container does not conform to regulations	Other Vehicle Defect		3	Y	
393.7	Fifth wheel	Coupling Devices		3	N	
393.70(a)	Defective coupling device-improper tracking	Coupling Devices		3	N	
393.70(b)	Defective/improper fifth wheel assemblies	Coupling Devices		3	Y	
393.70B1 ^{W5}	Defective latching fasteners - Fasteners on either side of the vehicle are missing or ineffective	Coupling Devices		3	Y	Updated description in 3.11
393.70B1-C ^W	Fifth wheel cracked or a gap caused by corrosion 1/8 inch (3.2 mm) or more in width.	Coupling Devices		3	Y	Added in 3.0.4
393.70B1-MPC ^W	Crack in the mounting plate or pivot bracket (parent metal) extending more than 20 percent of the distance across the metal in the direction of the crack.	Coupling Devices		3	Y	Added in 3.0.4
393.70B1-RW ^W	Fifth Wheel repair weld is cracked	Coupling Devices		3	Y	Added in 3.0.4

Table A-3. SMS Vehicle Maintenance BASIC Violations¹

393.70B11-SC ^ψ	Slide curl broken, cracked or repaired by welding	Coupling Devices		3	Y	Added in 3.0.4
393.70B11-W ^ψ	Fifth wheel more than 20 percent of the total length of all the original welds are cracked on either side of the vehicle.	Coupling Devices		3	Y	Added in 3.0.4
393.70B11	Defective / Improper fifth wheel assembly upper half	Coupling Devices		3	Y	
393.70B11-FWCM ⁴	Fifth wheel - any movement between components	Coupling Devices		3	Y	Added in 3.11
393.70B11-FWUC ^ψ	Upper coupler assembly parent metal cracked, extending more than 20 percent of the distance across the metal in the direction of the crack.	Coupling Devices		3	Y	Added in 3.0.4
393.70B11-FWUCG ^ψ	Upper coupler assembly crack or gap caused by corrosion more than 1/8 inch (3.2 mm) or more in width.	Coupling Devices		3	Y	Added in 3.0.4
393.70B11-FWUCW ^ψ	Upper coupler assembly welds are crack on either side, front or back of the upper coupler, more than 20 percent of the total length of all original welds.	Coupling Devices		3	Y	Added in 3.0.4
393.70B11-FWURW ^ψ	Upper coupler assembly repair weld cracked.	Coupling Devices		3	Y	Added in 3.0.4
393.70(b)(2)	Defective fifth wheel locking mechanism	Coupling Devices		3	Y	
393.70B2-ENGAGED ⁴	Kingpin not properly engaged	Coupling Devices		3	Y	Added in 3.11
393.70(c)	Defective coupling devices for full trailer	Coupling Devices		3	Y	
393.70(d)	No or improper safety chains or cables for full trailer	Coupling Devices		3	Y	
393.70(d)(8)	Improper safety chain attachment	Coupling Devices		3	Y	
393.71	Improper coupling driveaway/towaway operation	Coupling Devices		3	Y	
393.71B3 ³	Improper weight distribution drive-away/towaway	Coupling Devices		3	Y	Added in 3.0.9
393.71(g)	Prohibited towing connection / device	Coupling Devices		3	Y	
393.71(h)	Towbar requirement violations	Coupling Devices		3	Y	
393.71(h)(10)	No or improper safety chains for towbar	Coupling Devices		3	Y	
393.71J-SMU ⁴	Upper Saddlemount - Missing Fasteners, loose, cracked, or excessive movement	Coupling Devices		3	Y	Added in 3.11
393.71K-SML ⁴	Lower Saddlemount - Missing Fasteners, loose, cracked, or excessive movement	Coupling Devices		3	Y	Added in 3.11
393.75(e)	Regrooved Tire on front of truck or truck-tractor	Tire vs. Load		3	Y	
393.75(f)	Tire – exceeding weight rating of tire	Tire vs. Load		3	Y	
393.75(f)(1)	Weight carried exceeds tire load limit	Tire vs. Load		3	Y	
393.75(f)(2)	Tire underinflated	Tire vs. Load		3	Y	
393.75G-LOAD ^Δ	Weight carried exceeds tire load limit	Tire vs. Load		3	Y	Added in 3.0.8
393.75(h)	Tire underinflated	Tire vs. Load		3	N	
393.75I ^Δ	Operating a CMV while weight carried exceeds tire rating due to under-inflation	Tire vs. Load		3	Y	Added in 3.0.8
393.76	Sleeper berth requirement violations	Other Vehicle Defect		3	Y	
393.77	Defective and/or prohibited heaters	Other Vehicle Defect		3	Y	
393.77(b)(11)	Bus heater fuel tank location	Other Vehicle Defect		3	Y	
393.77(b)(5)	Protection of operating controls from tampering	Other Vehicle Defect		3	Y	
393.80	No or defective rear-vision mirror	Other Vehicle Defect		3	Y	
393.81	Horn inoperative	Other Vehicle Defect		3	Y	
393.82	Speedometer inoperative / inadequate	Other Vehicle Defect		3	Y	
393.102(a)	Improper securement system (tiedown assemblies)	Tiedown	8	3	Y	
393.102(a)(1)(i)	Insufficient means to prevent forward movement	Failure to Prevent Movement	8	3	Y	
393.102(a)(1)(ii)	Insufficient means to prevent rearward movement	Failure to Prevent Movement	8	3	Y	
393.102(a)(1)(iii)	Insufficient means to prevent lateral movement	Failure to Prevent Movement	8	3	Y	
393.102(b)	Insufficient means to prevent vertical movement	Failure to Prevent Movement	8	3	Y	
393.104(f)(1)	Knotted tiedown	Tiedown	8	3	Y	
393.104(f)(2)	Use of tiedown with improper repair.	Tiedown	8	3	Y	
393.104(f)(3)	Loose or unfastened tiedown.	Tiedown	8	3	Y	
393.104F4R	No edge protection for tiedowns	Tiedown	8	3	Y	
393.106(b)	Cargo not immobilized or secured	Failure to Prevent Movement	8	3	Y	
393.106(c)(1)	No means to prevent cargo from rolling	Failure to Prevent Movement	8	3	Y	
393.106(c)(2)	Cargo without direct contact not prevented from shifting while in transit	Failure to Prevent Movement	8	3	Y	
393.106(d)	Insufficient aggregate working load limit	Tiedown	8	3	Y	
393.110(b)	Insufficient tiedowns to prevent forward movement for load not blocked by headerboard, bulkhead, or other cargo.	Tiedown	8	3	Y	
393.110(c)	Insufficient tiedowns for an article blocked with a headerboard, bulkhead, or other cargo	Tiedown	8	3	Y	
393.110(d)	Large or odd-shaped cargo not adequately secured	Failure to Prevent Movement	8	3	Y	
393.118(d)	Insufficient protection against lateral movement of lumber or building materials	Failure to Prevent Movement	8	3	Y	
393.118(d)(3)	Insufficient or improper arrangement of tiedowns for lumber or building materials	Tiedown	8	3	Y	
393.120(e)	No protection against shifting or tipping of metal coils transported in sided vehicle or intermodal container without anchor points	Failure to Prevent Movement	8	3	Y	
393.124(b)	Insufficient working load limits for tiedowns on a group of concrete pipes	Tiedown	8	3	Y	
393.132(c)	Insufficient tiedowns per vehicle stack of crushed cars	Tiedown	8	3	Y	
393.134(b)(1)	No blocking against forward movement	Failure to Prevent Movement	8	3	Y	
396.3A1-CD ⁴	C-Dolly - Defective / Missing Locks - not centered	Coupling Devices		3	Y	Added in 3.11

Table A-3. SMS Vehicle Maintenance BASIC Violations¹

396.3A1-CDST ⁴	Defective coupling devices for semi-trailer.	Coupling Devices		3	Y	Added in 3.11
396.3A1DSCB	Center Bearing (Carrier Bearing) Cracked / Loose / Broken / Missing	Other Vehicle Defect		3	N	
396.3A1DSDT	Drive Shaft Tube Cracked or Twisted	Other Vehicle Defect		3	N	
396.3A1DSUJ ⁵	Universal Joint with Loose, Broken, or Missing Component, or Bearing Strap	Other Vehicle Defect		3	N	Updated description in 3.11
396.3A1DSYE	Drive Shaft Yoke Ends Cracked / Loose / Broken / Missing	Other Vehicle Defect		3	N	
396.3A1-EC ⁴	Bus - Electrical Mountings broken or unsecured	Other Vehicle Defect		3	Y	Added in 3.11
396.3A1-FWMOV ⁴	Fifth wheel- Movement exceeds 1/2 inch	Coupling Devices		3	Y	Added in 3.11
396.3A1-FWPC ^ψ	Crack in the fifth wheel plate (parent metal) extending more than 20 percent of the distance across the metal in the direction of the crack.	Coupling Devices		3	Y	Added in 3.0.4
396.3A1-FWPG ^ψ	A crack or gap caused by corrosion that is 1/8 inch (3.2 mm) or more in width in fifth wheel plate.	Coupling Devices		3	Y	Added in 3.0.4
396.3A1-FWPRW ^ψ	Repair weld cracked on fifth wheel plate	Coupling Devices		3	Y	Added in 3.0.4
396.3A1-GDRVP ^ψ	Vehicle with a dripping liquid that vaporizes in the air from a LNG fuel system.	Other Vehicle Defect		3	Y	Added in 3.0.4
396.3A1-GLEAK ^ψ	Vehicle with fuel leakage from a CNG, LNG or LPG system verified by bubble test or gas detection meter.	Other Vehicle Defect		3	Y	Added in 3.0.4
396.3A1-GVAPOR ^ψ	Vehicle with a cloud of vapor from a LNG fuel system.	Other Vehicle Defect		3	Y	Added in 3.0.4
396.3A1-LLEAK ^ψ	A liquid fuel system with a dripping leak at any point.	Other Vehicle Defect		3	Y	Added in 3.0.4
396.5(a)	Failing to ensure that vehicle is properly lubricated	Other Vehicle Defect		3	N	
396.5(b)	Oil and/or grease leak	Other Vehicle Defect		3	N	
396.7	Unsafe operations forbidden	Other Vehicle Defect		3	Y	
398.5	Failure to maintain vehicle for safe operation - Transportation of Migrant Workers	Other Vehicle Defect		3	Y	
392.8	Failing to inspect/use emergency equipment	Emergency Equipment		2	Y	
392.22(b)	Failure to place or improper placement of warning devices on the road surface	Cab, Body, Frame		2	Y	
393.9	Inoperable Required Lamp	Clearance Identification Lamps/Other		2	Y	
393.23	Required lamp not powered by vehicle electric	Clearance Identification Lamps/Other		2	Y	
393.23PT	All required lamps on towed vehicle inoperative due to no electrical connection	Clearance Identification Lamps/Other		2	Y	Added in 3.0.4
393.84	Inadequate floor condition	Cab, Body, Frame		2	Y	
393.86(a)(1)	Rear Impact Guards Required - trailer manufactured on or after January 26, 1998	Cab, Body, Frame		2	N	
393.86(a)(2)	Rear Impact Guard having improper width - trailer manufactured on or after January 26, 1998	Cab, Body, Frame		2	N	
393.86(a)(3)	Rear Impact Guard having improper height - trailer manufactured on or after January 26, 1998	Cab, Body, Frame		2	N	
393.86(a)(4)	Rear Impact Guard not within 12 in of rear of vehicle at 22 in above the ground	Cab, Body, Frame		2	N	
393.86(a)(5)	Rear Impact Guard Cross-section vertical height insufficient for trailer manufactured on or after January 26, 1998	Cab, Body, Frame		2	N	
393.86(b)(1)	Rear Impact Guard Required - motor vehicle manufactured after 12/31/1952 (see exceptions)	Cab, Body, Frame		2	Y	
393.88	Improperly located tv receiver	Cab, Body, Frame		2	Y	
393.89	Bus driveshaft not properly protected	Cab, Body, Frame		2	Y	
393.90	Bus-no or obscure standee line	Cab, Body, Frame		2	Y	
393.91	Bus - improper aisle seats	Cab, Body, Frame		2	Y	
393.91-FS	Motor Coach or other Passenger carrying vehicle equipped with prohibited non-automatically folding seats in the aisle	Cab, Body, Frame		2	Y	Added in 3.0.4
393.91-SNS	Motor Coach or other Passenger Carrying vehicle operating with seating, occupied or not, not secured in a workmanlike manner.	Cab, Body, Frame		2	Y	Added in 3.0.4
393.93(a)	Failure to equip bus with seat belts	Cab, Body, Frame		2	Y	
393.93(a)(3)	Seats not secured in conformance with FMVSS	Cab, Body, Frame		2	N	
393.93(b)	Failure to equip truck with seatbelts	Cab, Body, Frame		2	Y	
393.93B3 ⁴	Temporary Seating - Vehicle must conform to the requirements of Federal Motor Vehicle Safety Standard No. 2071 (°571.207)	Cab, Body, Frame		2	Y	Added in 3.11
393.95(a)	No/discharged/unsecured fire extinguisher	Emergency Equipment		2	Y	
393.95(a)(1)(i)	Failure to equip hazardous material vehicle with a fire extinguisher with a minimum UL rating of 10 B:C	Emergency Equipment		2	Y	
393.95(b)	No spare fuses as required	Emergency Equipment		2	Y	
393.95(f)	No / insufficient warning devices	Emergency Equipment		2	Y	
393.95(g)	HM-restricted emergency warning device	Emergency Equipment		2	Y	
393.201(a)	Frame cracked / loose / sagging / broken	Cab, Body, Frame		2	Y	
393.201(b)	Bolts securing cab broken/loose/missing	Cab, Body, Frame		2	N	
393.201(c)	Frame rail flange improperly bent/cut/notched other than by vehicle manufacturer	Cab, Body, Frame		2	Y	
393.201(d)	Frame accessories improperly attached	Cab, Body, Frame		2	N	
393.201(e)	Prohibited holes drilled in frame rail flange	Cab, Body, Frame		2	N	
393.203	Cab/body parts requirements violations	Cab, Body, Frame		2	Y	
393.203(a)	Cab door missing/broken	Cab, Body, Frame		2	Y	
393.203(b)	Cab/body improperly secured to frame	Cab, Body, Frame		2	Y	
393.203(c)	Hood not securely fastened	Cab, Body, Frame		2	Y	

Table A-3. SMS Vehicle Maintenance BASIC Violations¹

393.203(d)	Cab seats not securely mounted	Cab, Body, Frame		2	Y	
393.203(e)	Cab front bumper missing/unsecured/protrude	Cab, Body, Frame		2	Y	
393.205(a)	Wheel/rim cracked or broken	Wheels, Studs, Clamps, Etc.		2	Y	
393.205(b)	Stud/bolt holes elongated on wheels	Wheels, Studs, Clamps, Etc.		2	Y	
393.205(c)	Wheel fasteners loose and/or missing	Wheels, Studs, Clamps, Etc.		2	Y	
396.3(a)(1) ⁵	Inspection, repair and maintenance of parts and accessories	Wheels, Studs, Clamps, Etc.		2	N	Updated description in 3.11
396.3A1-AWW ⁴	Wheels - Welded Repair on wheel other than Disc-to-Rim attachment	Wheels, Studs, Clamps, Etc.		2	Y	Added in 3.11
396.3A1-HC ⁴	Hubs - Hub cap missing or broken	Wheels, Studs, Clamps, Etc.		2	Y	Added in 3.11
396.3A1-HS ⁴	Hub smoking	Wheels, Studs, Clamps, Etc.		2	Y	Added in 3.11
396.5A-HNLIW	Hubs - No visible or measurable lubricant showing in the hub - inner wheel	Wheels, Studs, Clamps, Etc.		2	N	
396.5A-HNLOW	Hubs - No visible or measurable lubricant showing in the hub - outer wheel	Wheels, Studs, Clamps, Etc.		2	Y	
396.5B-HLIW	Hubs - Oil and/or Grease Leaking from hub - inner wheel	Wheels, Studs, Clamps, Etc.		2	N	
396.5B-HLOW	Hubs - oil and/or Grease Leaking from hub - outer wheel	Wheels, Studs, Clamps, Etc.		2	Y	
396.5B-HWSLIW	Hubs - Wheel seal leaking - inner wheel	Wheels, Studs, Clamps, Etc.		2	N	
396.5B-HWSLOW	Hubs - Wheel seal leaking - outer wheel	Wheels, Studs, Clamps, Etc.		2	Y	
399.207	Vehicle access requirements violations	Cab, Body, Frame		2	N	
399.211	Inadequate maintenance of driver access	Cab, Body, Frame		2	N	
392.2WC	Wheel (Mud) Flaps missing or defective	Windshield/ Glass/ Markings		1	Y	
392.9	Driver may not operate a CMV without proper load securement	General Securement	7	1	Y	
392.9(a)	Failing to secure load	General Securement	7	1	Y	
392.9(a)(1)	Failing to secure cargo as specified in 49 CFR 393.100 through 393.142	General Securement	7	1	Y	
392.9(a)(2)	Failing to secure vehicle equipment	General Securement	7	1	Y	
392.9(a)(3)	Drivers view and/or movement is obstructed	General Securement	7	1	Y	
392.62(c)(1)	Bus - baggage/freight restricts driver oper	General Securement	7	1	Y	
392.62(c)(2)	Bus - Exit(s) obstructed by baggage/freight	General Securement	7	1	Y	
392.62(c)(3)	Passengers not protected from falling baggage	General Securement	7	1	Y	
393.60EWS	Windshield - Obstructed	Windshield/ Glass/ Markings		1	Y	
393.60(b)	Each bus and truck shall be equipped with a windshield	Windshield/ Glass/ Markings		1	Y	
393.60(c)	Damaged or discolored windshield	Windshield/ Glass/ Markings		1	Y	
393.60(d)	Glazing permits < 70% of light	Windshield/ Glass/ Markings		1	Y	
393.61	Inadequate or missing truck side windows	Windshield/ Glass/ Markings		1	Y	
393.62(a)	No or Defective bus emergency exits	Windshield/ Glass/ Markings		1	Y	
393.62(b)	No or defective bus emergency exits, manufactured on or after 9/1/1973 but before 9/1/1994	Windshield/ Glass/ Markings		1	Y	
393.62(c)	No or Defective bus emergency exit windows	Windshield/ Glass/ Markings		1	Y	
393.62(d)	No or Defective Safety glass and/or push-out window	Windshield/ Glass/ Markings		1	Y	
393.62(e)	No or inadequate bus emergency exit marking	Windshield/ Glass/ Markings		1	Y	
393.65	Fuel system requirements	Fuel Systems		1	N	
393.65(b)	Improper location of fuel system	Fuel Systems		1	Y	
393.65(c)	Improper securement of fuel tank	Fuel Systems		1	Y	
393.65(f)	Improper fuel line protection	Fuel Systems		1	Y	
393.67	Fuel tank requirement violations	Fuel Systems		1	N	
393.67(c)(7)	Fuel tank fill pipe cap missing	Fuel Systems		1	Y	
393.67(c)(8)	Improper fuel tank safety vent	Fuel Systems		1	N	
393.78	Windshield wipers inoperative/defective	Windshield/ Glass/ Markings		1	Y	
393.79	Defroster / Defogger inoperative	Windshield/ Glass/ Markings		1	Y	
393.83(a)	Exhaust system location	Exhaust Discharge		1	Y	
393.83(b)	Exhaust discharge fuel tank/filler tube	Exhaust Discharge		1	Y	
393.83(c) ⁵	Improper exhaust - Bus (Powered by gasoline)	Exhaust Discharge		1	Y	Updated description in 3.11
393.83(d) ⁵	Improper exhaust - Bus (Powered by other than Gasoline)	Exhaust Discharge		1	Y	Updated description in 3.11
393.83(e)	Improper exhaust discharge (not rear of cab)	Exhaust Discharge		1	Y	
393.83(f)	Improper exhaust system repair (patch/wrap)	Exhaust Discharge		1	Y	
393.83(g) ⁵	Exhaust leak under driver and/or sleeper compartment	Exhaust Discharge		1	Y	Updated description in 3.11
393.83(h)	Exhaust system not securely fastened	Exhaust Discharge		1	Y	
393.87(a)	Warning flag required on projecting load	Warning Flags	3	1	Y	
393.87(b)	Improper warning flag placement	Warning Flags	3	1	Y	
393.100	Failure to prevent cargo shifting	General Securement	7	1	Y	
393.100(a)	No or improper load securement	General Securement	7	1	Y	
393.100(c)	Failure to prevent cargo shifting	General Securement	7	1	Y	
393.104(a)	Inadequate/damaged securement device/system	Securement Device	7	1	Y	
393.104(b)	Damaged securement system/tiedowns	Securement Device	7	1	Y	
393.104(c)	Damaged vehicle structures/anchor points	Securement Device	7	1	Y	
393.104(d)	Damaged dunnage, chocks, cradles, shoring bars, blocking and bracing	Securement Device	7	1	Y	

Table A-3. SMS Vehicle Maintenance BASIC Violations ¹						
393.106(a)	No/improper front end structure/headerboard	Securement Device	7	1	Y	
393.110	Failing to meet minimum tiedown requirements	General Securement	7	1	Y	
393.112	Tiedown not adjustable by driver	Securement Device	7	1	Y	
393.114	No/improper front end structure	General Securement	7	1	Y	
393.114(b)(1)	Insufficient height for front-end structure	Securement Device	7	1	Y	
393.114(b)(2)	Insufficient width for front-end structure	Securement Device	7	1	Y	
393.114(d)	Front-end structure insufficient to prevent cargo to pass through it.	Securement Device	7	1	Y	
393.116	No/improper securement of logs	General Securement	7	1	Y	
393.118	No/improper lumber/building materials securement	General Securement	7	1	Y	
393.120	No or improper securement of metal coils	General Securement	7	1	Y	
393.122	No/improper securement of paper rolls	General Securement	7	1	Y	
393.124	No or improper securement of concrete pipe	General Securement	7	1	Y	
393.126	Failure to ensure intermodal container securement	General Securement	7	1	Y	
393.126(b)	Damaged or Missing tiedown or securement device for intermodal containers transported on container chassis vehicle	Securement Device	7	1	Y	
393.126(c)(1)	Lower corners of loaded intermodal container not resting on surface of transporting vehicle (non container chassis)	Securement Device	7	1	Y	
393.128	No/improper securement of vehicles	General Securement	7	1	Y	
393.130	No/improper heavy vehicle/machine securement	General Securement	7	1	Y	
393.132	No/improper securement of crushed vehicles	General Securement	7	1	Y	
393.132(b)	Prohibited use of synthetic webbing.	Securement Device	7	1	Y	
393.134	No/improper securement of roll/hook container	General Securement	7	1	Y	
393.136	No/improper securement of large boulders	General Securement	7	1	Y	
	¹ Violation severity weights reflect the relative importance of each violation within each BASIC. These weights cannot be compared or added meaningfully across the BASICS. ² In cases where a violation results in an out-of-service order as defined in 49 CFR 390.5, an additional weight of 2 is added to arrive at a total severity weight for the violation. <small>Ψ Τημοσ επιλογιστων τοοκ εφερχετ εν ΣΜΣ οσ οφ Αυγισοτ 28,2015.</small>					
	*This violation took effect in the SMS with the April 28, 2017 run.					
	⁴ This violation was applied retroactively in the SMS with the July 28, 2017 run.					
	³ This violation was applied retroactively in the SMS with the April 25, 2018 run.					
	⁴ This violation was added to SMS with the September 25, 2020 snapshot.					
	⁵ The description for this violation was updated in SMS with the September 25, 2020 snapshot.					