

## **Consolidated table of the applicable provisions of Part 9 of ADR for EX/II, EX/III, FL, and AT vehicles and MEMUs**

The vehicles transporting dangerous goods shall comply with the requirements of Part 9 of ADR. During its 105<sup>th</sup> session, the Working Party on the Transport of Dangerous Goods (WP.15) adopted the present consolidated table of applicable requirements of Part 9 that can serve as guidelines for the technical inspection of EX/II, EX/III, FL and AT vehicles and MEMUs.

TECHNICAL SPECIFICATIONS		VEHICLES						COMMENTS
		EX/II	EX/III	EX III TANK	AT	FL	MEMU	
<b>ELECTRICAL EQUIPMENT</b>								
Electrical equipment - general provisions	9.2.2.1	X	X	X	X	X	X	
Cables	9.2.2.2.1	X	X	X	X	X	X	
Additional protection	9.2.2.2.2	X <sup>a</sup>	X	X	X <sup>b</sup>	X	X	<sup>a</sup> Applicable to vehicles with a maximum mass exceeding 3.5 tonnes first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
								<sup>b</sup> Applicable for vehicles first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
Fuses and circuit breakers	9.2.2.3	X <sup>b</sup>	X	X	X	X	X	<sup>b</sup> Applicable to vehicles first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
Batteries	9.2.2.4	X	X	X	X	X	X	
Lighting	9.2.2.5	X	X	X	X	X	X	
Electrical connections between motor vehicles and trailers	9.2.2.6	X <sup>c</sup>	X	X	X <sup>b</sup>	X	X	<sup>b</sup> Applicable to vehicles first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
								<sup>c</sup> Applicable to motor vehicles intended to draw trailers with a maximum mass exceeding 3.5 tonnes and trailers with a maximum mass of exceeding 3.5 tonnes first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
Voltage	9.2.2.7	X	X	X			X	
Battery master switch	9.2.2.8		X	X		X	X	
Permanently energized circuits	9.2.2.9.1					X		
	9.2.2.9.2		X	X			X	
Electrical equipment - EX vehicles	9.3.7.1	X	X					
	9.3.7.2	X	X					
	9.3.7.3	X	X					

Electrical equipment - tank vehicles	9.7.8.1					X		
	9.7.8.2					X		
	9.7.8.3			X	X	X		
<b>BRAKING EQUIPMENT</b>								
General provisions	9.2.3.1	X	X	X	X	X	X	
Anti-lock braking system	9.2.3.1	X <sup>c</sup>	X <sup>d,e</sup>	X <sup>d,e</sup>	X <sup>d,e</sup>	X <sup>d,e</sup>	X <sup>d,e</sup>	<sup>d</sup> Applicable to motor vehicles (tractors and rigid vehicles) with a maximum mass exceeding 16 tonnes and motor vehicles authorized to tow trailers (i.e. full-trailers, semi-trailers and centre axle-trailers) with a maximum mass exceeding 10 tonnes. Motor vehicles shall be equipped with a category 1 anti-lock braking system.
								Applicable to trailers (i.e. full-trailers, semi-trailers and centre axle-trailers) with a maximum mass exceeding 10 tonnes. Trailers shall be equipped with a category A anti-lock braking system.
								<sup>e</sup> Applicable to all motor vehicles and applicable to trailers with a maximum mass exceeding 3.5 tonnes, first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
Endurance braking system	9.2.3.1	X <sup>f</sup>	X <sup>g</sup>	X <sup>g</sup>	X <sup>g</sup>	X <sup>g</sup>	X <sup>g</sup>	<sup>f</sup> Applicable to motor vehicles with a maximum mass exceeding 16 tonnes or authorized to tow a trailer with a maximum mass exceeding 10 tonnes first registered after 31 March 2018. The endurance braking system shall be of type IIA.
								<sup>g</sup> Applicable to motor vehicles with a maximum mass exceeding 16 tonnes or authorized to tow a trailer with a maximum mass exceeding 10 tonnes. The endurance braking system shall be of type IIA.

PREVENTION OF FIRE RISKS								
Fuel tanks and cylinders	9.2.4.3	X	X	X		X	X	
Engine	9.2.4.4	X	X	X		X	X	
Engine and load compartment - EX vehicles	9.3.5	X	X					
Exhaust system	9.2.4.5	X	X	X		X	X	
External heat sources and load compartment - EX vehicles	9.3.6	X	X					
Vehicle endurance braking thermal shield	9.2.4.6	X <sup>f</sup>	X	X	X	X	X	<sup>f</sup> Applicable to motor vehicles with a maximum mass exceeding 16 tonnes or authorized to tow a trailer with a maximum mass exceeding 10 tonnes first registered after 31 March 2018. The endurance braking system shall be of type IIA.
Combustion heaters	9.2.4.7.1	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	<sup>h</sup> Applicable to motor vehicles equipped after 30 June 1999. Mandatory compliance by 1 January 2010 for vehicles equipped before 1 July 1999. If the date of equipping is not available the date of first registration of the vehicle shall be used instead.
	9.2.4.7.2	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	
	9.2.4.7.3					X <sup>h</sup>		
	9.2.4.7.4					X <sup>h</sup>		
	9.2.4.7.5	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	X <sup>h</sup>	
	9.2.4.7.6	X	X	X			X	
Combustion heaters - EX vehicles	9.3.2.1	X	X					
	9.3.2.2	X	X					
	9.3.2.3	X	X					
	9.3.2.4	X	X					
Combustion heaters - tank vehicles	9.7.7.1			X	X	X		
	9.7.7.2			X	X	X		
Combustion heaters of MEMUs	9.8.6.1						X	
	9.8.6.2						X	

<b>OTHER REQUIREMENTS</b>								
Speed limitation device	9.2.5	X <sup>i</sup>	X <sup>i</sup>	X <sup>i</sup>	X <sup>i</sup>	X <sup>i</sup>	X <sup>i</sup>	<sup>i</sup> Applicable to motor vehicles with a maximum mass exceeding 12 tonnes first registered after 31 December 1987, and all motor vehicles with a maximum mass exceeding 3.5 tonnes but not more than 12 tonnes registered after 31 December 2007.
Coupling devices of motor vehicles and trailers	9.2.6	X	X	X	X <sup>j</sup>	X <sup>j</sup>	X	<sup>j</sup> Applicable to coupling devices of motor vehicles and trailers and motor vehicles first registered (or which entered into service if registration is not mandatory) after 31 March 2018.
Prevention of other risks caused by fuels	9.2.7.1				X	X		
<b>ADDITIONAL REQUIREMENTS CONCERNING COMPLETE OR COMPLETED EX/II OR EX/III VEHICLES INTENDED FOR THE CARRIAGE OF EXPLOSIVE SUBSTANCES AND ARTICLES (CLASS 1) IN PACKAGES</b>								
Materials to be used in the construction of vehicle bodies	9.3.1	X	X					
EX/II vehicles	9.3.3	X						
EX/III vehicles	9.3.4.1		X					
	9.3.4.2		X					
<b>ADDITIONAL REQUIREMENTS CONCERNING FIXED TANKS (TANK-VEHICLES), BATTERY-VEHICLES AND COMPLETE OR COMPLETED VEHICLES USED FOR THE CARRIAGE OF DANGEROUS GOODS IN DEMOUNTABLE TANKS WITH A CAPACITY GREATER THAN 1 M<sup>3</sup> OR IN TANK-CONTAINERS, PORTABLE TANKS OR MEGCs OF A CAPACITY GREATER THAN 3 M<sup>3</sup> (EX/III, FL AND AT VEHICLES)</b>								
General provisions	9.7.1.2			X	X	X		
Fastenings	9.7.3.1			X	X	X		
	9.7.3.2			X	X	X		
	9.7.3.3			X	X	X		
Electrical bonding of FL vehicles	9.7.4					X		
Stability of tank-vehicles	9.7.5.1			X	X	X		
	9.7.5.2				X	X		

Rear protection of tank vehicles	9.7.6			X	X	X		
Additional safety requirements concerning EX/III vehicles	9.7.9			X				
<b>ADDITIONAL REQUIREMENTS CONCERNING COMPLETE AND COMPLETED MEMUs</b>								
Requirements concerning tanks and bulk containers	9.8.2						X	
Electrical bonding of MEMUs	9.8.3						X	
Stability of MEMUs	9.8.4						X	
Rear protection of MEMUs	9.8.5						X	
Additional safety requirements	9.8.7.1						X	
	9.8.7.2						X	
Additional security requirements	9.8.8						X	