

Hardwarematrix for Automotive

Table of all required hardware and software for each standard

Standards	Hardware						Software				
	TEG	APS/LVA	BSG	LDS	EMS	FordTDG	Burst-Surge	Automotive 12V-24V	Automotive 48V	Automotive Ford JLR	Magnetic field test
BMW GS 95002-2 2013-07	X	X	X				X				
BMW GS 95002-2 2019-10	X	X	X	X			X				
BMW GS 95002-2 2021-05	X	X	X	X			X				
BMW GS 95002-2 2025-03	X	X	X				X				
BMW GS 95002 2010-06		X	X				X				
BMW GS 95003-2 2010-01		X		X	X			X			
BMW GS 95024-2-2 2011-02		X			X			X			
BMW GS 95024-2 2021-03		X			X			X			
BMW GS 95024-2 2024-03		X			X			X			
BMW GS 95026 2013-10		X			X				X		
FCA CS.00054 2018-01	X	X	X	X	X		X	X			
Fiat 9.90111-01 2012-06	X	X	X	X	X		X	X			
Ford ELCOMP-Tests 2024		X									
Ford FMC1278 2015-07 ¹⁾	X	X	X	X		X				X	
GMW 3097 2012-04	X	X	X	X			X				
GMW 3097 2015-06	X	X	X	X			X				
GMW 3172 2015-06		X						X			
Honda 1901Z-XP7F-V010 2010-10		X	X	X			X	X			
Hyundai/Kia ES96200-00 2015-01		X	X	X			X				
ISO 7637-2 2004-06	X	X	X	X			X				
ISO 7637-2 2011-03	X	X	X				X				
ISO 7637-3 2016-07		X	X				X				
ISO 16750-2 2012-11		X		X	X			X			
ISO 16750-2 2023-07 ²⁾		X		X	X			X			
ISO 21780 2020-08 ²⁾		X			X				X		
ISO 21848 2005-04		X			X				X		
Jaguar JLR-EMC-CS v1.0 Amendment4 ¹⁾	X	X	X	X		X				X	
LV 124 2013-06		X			X			X			

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LV 148 2013-09		X			X				X		
MAN M 3285 2017-07	X	X	X				X				
MBN 10567 2018-03		X			X			X			
MBN 10567 2024-01		X			X			X			
MBN 50284-2 2023-02	X	X	X				X				
MBN 50569 2023-04		X			X			X			
MBN LV 124-1 2011-03		X			X			X			
MBN LV 124-1 2013-03		X			X			X			
Magnetic field test 2020-02 ³⁾		X									X
Mitsubishi ES-X82114 2007-04	X	X	X				X				
Mitsubishi ES-X82115 2009-03		X			X			X			
Nissan 28401NDS02 2002-04		X	X	X	X		X	X			
Nissan 28401NDS02 2016-03		X	X	X	X		X	X			
PSA B21 7110 2012-07	X	X	X	X	X		X	X			
PSA B21 7110 2019-04 ²⁾	X	X	X		X	X	X	X			
RNDS-C-00517 2018-06		X	X	X	X		X	X			
RNDS-C-00517 2022-10		X	X	X	X		X	X			
Renault 36-00-808 2012-07		X	X	X	X		X	X			
Renault 36-00-808 2016-03		X	X	X	X		X	X			
SAE j1113-11 2012-01		X	X	X			X				
SAE j1113-11 2017-06		X	X	X			X				
SAE j1113-11 2018-12		X	X	X			X				
VDA 320 2015-01		X			X				X		
VW 80000 2013-06		X			X			X			
VW 80000 2017-10		X			X			X			
VW 80000 2020-12		X			X			X			
VW 80000 2021-07		X			X			X			
VW 80000 2022-12		X			X			X			

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VW 80300 2021-02		X									
VW 82148 2013-09		X			X			X			
VW TL 81000 2016-02	X	X	X				X				
VW TL 81000 2018-03	X	X	X				X				
VW TL 81000 2021-09	X	X	X				X				
VW TL 81000 2024-06	X	X	X				X				
Volvo 31822854 2018-02		X		X	X			X			
Volvo 31850329 2014-06	X	X	X				X				

Note:

- 1) Additional hardware such as transformer adaptation, test fixture and additional amplifiers is required
- 2) Opt.14 and a differential probe for test setting is required
- 3) Additional hardware such as magnetic field coils, sensors and DMM is required