



AUTOMOBILE ELECTRONICS

Made with respect to You



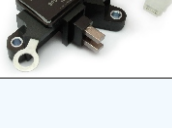




PRODUCT ASSORTMENT

VOLTAGE REGULATORS 14 V						
	Name, type	Voltage regulation	Alternator	Application	Analogue*	
	JA112A1 (Я112А1)	14,0	17.3701 + modif. 29.3701 + modif. 58.3701 + modif. 66.3701 + modif. G287 + modif.	AZLK, ZIL, IG, LAZ, LIAZ, PAZ, RAF, "Tavria" 1991-1996 years of manufacture and others	JA112A (Я112А)	
	JA112B1 (Я112Б1)	14,0 / 13,8	46.3701 + modif. 96.3701 + modif.	Tractors: DT-75, TDT-55, MTZ; Combines: "Yenisei", "Kolos", "Niva", "Sibiryak", SK-6 and others	JA112B (Я112Б)	
	JA112B1I2 (Я112Б1И2)	14,2 / 14,65	4202-1.3771	GAZ 33104 and others	JA112G12 (Я112Г12)	
	JA112V1 (Я112В1)	14,0	G222 28.3771	VAZ-2104, -05, -07, "Tavria" until 1991 year of manufacture and others	JA112V (Я112В)	
	JA112V1I2 (Я112В1И2)	14,2	4201.3771	PAZ buses		
	JA212A11 (Я212А11)	14,1	37.3701 + modif.	Automobiles with carbureted engines: VAZ-2108, -09, -10, "Oka", VAZ-21213 and others	BU with 361.3702 (brushes 5x8 mm), SHCHDR with JA212A11E, SHCHDR-K442EN1	
	1702.3702-01	14,4	37.3701 + modif. G2108E	Automobiles with carbureted engines: VAZ-2108, -09, -10, "Oka", VAZ-21213 and others	1702.3702	
	1702.3702-02	14,7				
	9702.3702	14,1	97.3701	"Tavria" 1997-2004 years of manufacture		
	9402.3702-01	14,1	94.3701, 9402.3701 3202.3771, 977.3701 97T.3701, 97S.3701 3212.3771, 3282.3771	VAZ-2108, -09, -10, -11, -12, VAZ-2113, -14, -15, "Slavuta" since 2009 year of manufacture, "Tavria", "Daewoo Sens", "Daewoo Lanos" 1.4i, GAZ, UAZ and others	BU with 361.3702 (brushes 4x6 mm), 57.3702, SHCHDR-1 with JA212A11E, M14RN5 A, SHCHDR-K1216EN1	
	9402.3702-02	14,3				
	9432.3702	14,1	97T.3701	"Daewoo Sens", "Daewoo Lanos" 1.4, "Slavuta", "Tavria" 2004-2009 years of manufacture and others		
	9432.3702-01	14,1				
	9432.3702-02	14,4				
	9111.3702	14,4	94.3701, 9402.3701 3202.3771, G2112E 977.3701, 97T.3701 97S.3701, 3212.3771 3282.3771	VAZ-2108, -09, -10, -11, -12, VAZ-2113, -14, -15, "Slavuta" since 2009 year of manufacture, "Tavria", "Daewoo Sens", "Daewoo Lanos" 1.4i, GAZ, UAZ and others		
	9111.3702I2** (...И2)	14,4				
	9111.3702I4** (...И4)	14,1				
	3032.3702	14,1	3032.3771 + modif.	PAZ buses (engine ZMZ) and others	SHCHDR-1 with JA213A1 (ЩДР-1 с Я213А1)	
	5102.3702	14,5	5102.3771 + modif.	VAZ-2108, -09, -10, -11, -12, VAZ-2113, -14, -15 and others	841.3702	
	5102.3771.060	14,1				





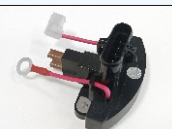




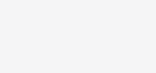
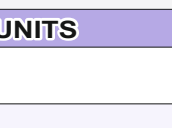
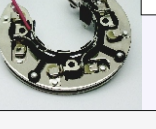
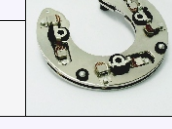
* - indicated analogues mean products are similar, but not identical in terms of parameters

** - voltage regulators with a built-in interference suppression capacitor


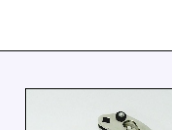


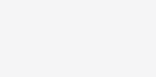
VOLTAGE REGULATORS 14 V

	Name, type	Voltage regulation	Alternator	Application	Analogues*
	9444.3702 (multifunctional)	14,5	9402.3701-03 9402.3701-04	VAZ-2110, -11, -12, VAZ-2123, "Chevrolet Niva"	844.3702 845.3702 7931.370214 (7931.3702144)
	9454.3702** (multifunctional)	14,5	9402.3701-06 9402.3701-14 (2-pin socket)	VAZ-1117, -18, -19 "Kalina", VAZ-2170, -71, -72 "Priora", VAZ-2190 "Granta"	849.3702
	9464.3702** (multifunctional)	14,5	9751.3701 (3-pin socket)	"ZAZ Lanos" 1.5i, "Chevrolet Lanos", "Chevrolet Aveo", "Daewoo Nexia" and others	
	9555.3702** (multifunctional)	14,5	A125/1003/-14V-80A ELD-A-1118, 9771.3701, 94xx.3701 (2-pin socket)	VAZ-1117, -18, -19 "Kalina", VAZ-2170, -71, -72 "Priora", VAZ-2190 "Granta"	
	9333.3702-02**	14,3	94.3701, 9402.3701 3202.3771, G2112E 977.3701, 97S.3701 3212.3771, 3282.3771	VAZ-2108, -09, -10, -11, -12, VAZ-2113, -14, -15, "Slavuta" since 2004, "Daewoo Sens", "Daewoo Lanos" 1.4i, GAZ, UAZ and others	
	9333.3702-04** (multifunctional)	14,5	9402.3701-03, 9402.3701-04, 9772.3701	VAZ-2110, -11, -12, VAZ-2123, "Chevrolet Niva"	

VOLTAGE REGULATORS 28 V

	Name, type	Voltage regulation	Alternator	Application	Analogues*
	JA120M1 (Я120M1)	28 / 27,6	21.3771 + modif. G273 + modif.	KAMAZ, MAZ and others	JA120M (Я120M)
	JA120M1I2 (Я120M1И2)	28,8 / 27,8	GG273V1-3, 1312.3771, 1322.3771, 1342.3771, 1352.3771, 3112.3771, 3122.3771, 3142.3771 + modif.	GAZ, KAMAZ, MAZ and others	JA120M12 (Я120M12)
	JA120M1I3 (Я120M1И3)	29,4 / 28,4			
	9222.3702, 9222.3702I2** (...И2)	28,8	4502.3771 + modif.	KAMAZ and others	
	9222.3702I3 (...И3), 9222.3702I4** (...И4)	28,4	3232.3771 + modif.		
	9222.3702I6** (...И6)	28,8	4242.3771 since 2017	MAZ with engines YaMZ-7511	
	4542.3771.060** (multifunctional)	28,5	4542.3771 + modif. (5-pin socket)	KAMAZ (Euro-2, Euro-3)	
	4572.3702	28,4	3112.3771-01 3122.3771-01 3142.3771-01	KAMAZ (Euro-0, Euro-1) MAZ and others	
	9333.3702-20**	28,4	3232.3771	KAMAZ with engines KAMAZ-740, YaMZ-236 and others, MAZ (Euro-2) with engines MMZ D245, D260 and others	
	9333.3702-22**	28,8	3232.3771-10		
	9333.3702-25** (multifunctional)	28,6	A125/24/-28V-90A 3252.3771, 3272.3771 3252.3771-10 3252.3771-50	MAZ with engines YaMZ-656, YaMZ-530 and others	
	9333.3702-28** (multifunctional)	28,6	4242.3771	MAZ with engine YaMZ-7511	


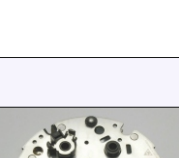




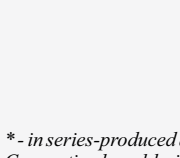



RECTIFIER UNITS

	Name	Alternator	Application	Analogues	Quantity of diodes, pcs	Alternator stator winding connection method
	BV21-150-14 (БВ21-150-14)	371.3701, 372.3701	VAZ-2108, -09, -10, "Oka", VAZ-21213 and others	BPV56-65-02G (БПВ56-65-02Г)	6 power + 3 additional diodes	terminal
	BV21-150-14.A (БВ21-150-14А)	G221, G222	VAZ-2101, -02, -03, -04, VAZ-2105, -07, "Tavria" until 1991 year of manufacture	BPV56-65-02A (БПВ56-65-02А)	6 power diodes	terminal
	BV21-150-14.B (БВ21-150-14Б)	37.3701 G2108E	VAZ-2108, -09, "Oka", VAZ-2121 and others	BPV56-65-02B (БПВ56-65-02Б)	6 power + 3 additional diodes	terminal
	BV21-150-14.V (БВ21-150-14В)	46.3701 464.3701	Tractors	BPV56-65-02V (БПВ56-65-02В), ЗНУК.435111.003 (ЖГИК.435111.003)	6 power + 3 additional diodes	terminal

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** - voltage regulators with a built-in interference suppression capacitor

RESTRICTIVE RECTIFIER UNITS 14 V								
		Name	Alternator	Application	Analogues	Quantity of diodes, pcs	«B+»	Alternator stator winding connection method*
		BVO11-150-02.19 (BBO11-150-02.19)	9402.3702-03 9402.3702-04 A125/21/-14V-80A	VAZ-2110, -11, -12, VAZ-2123, "Chevrolet Niva"	BVO4-105-01 (BBO4-105-01)	6 power diodes	M6	soldering
		BVO11-150-02.68 (BBO11-150-02.68)	4234.3771 4236.3771	GAZ, UAZ and others		6 power diodes	M6	terminal
		BVO11-150-08.M (BBO11-150-08.M)	97T.3701, 9731.3701 9732.3701, G2112E A125/10/-14V-80A A125/11/-14V-80A, 9402.3701	"Slavuta", "Tavria" since 2004 year of manufacture, GAZ-24, -31, -53, VAZ-2108, -09, -10, -11, -12, VAZ-2121	BVO3-105-01 (BBO3-105-01) BVO3-105-07 (BBO3-105-07)	6 power + 3 additional diodes	M6	soldering
		BVO11-150-12.21 (BBO11-150-12.21)	9772.3701	VAZ-2123, "Chevrolet Niva"		8 power diodes	M6	soldering
		BVO11-150-13.M (BBO11-150-13.M)	977.3701, 97.3701 A125/1001/-14V-105A A125/1012/-14V-125A	VAZ-2110, -11, -12, "Daewoo Sens" and others	BVO3-105-06 (BBO3-105-06) BVO3-105-09 (BBO3-105-09)	8 power + 3 additional diodes	M6	soldering
		BVO11-150-15.66 (BBO11-150-15.66)	4231.3701, 4232.3701 4234.3701, 4235.3701-1 4236.3701	GAZ, UAZ, VAZ-2108, -09, -10, PAZ		6 power + 3 additional diodes	M6	terminal
		BVO11-150-15.M (BBO11-150-15.M)	G406E, 9422.3701 A125/14/-14V-90A	GAZ with engines ZMZ-405, -406, -409 and others	BVO2-150-03 (BBO2-105-03)	6 power + 3 additional diodes	M6	soldering
		BVO11-150-16.M (BBO11-150-16.M)	A125/1401/-14V-110A A125/1402/-14V-125A	GAZ with engines ZMZ-405, -406, -409 and others	BVO3-05-02 (BBO3-05-02)	8 power + 3 additional diodes	M6	soldering
		BVO11-150-18.41 (BBO11-150-18.41)	A125/1003/-14V-80A ELD-A-1118 94xx.3701	VAZ-1117, -18, -19 "Kalina", VAZ-2170, -71, -72 "Priora", VAZ-2190 "Granta"		6 power diodes	M8	soldering
		BVO11-150-19.45 (BBO11-150-19.45)	9751.3701 9771.3701	"Daewoo Nexia", "ZAZ Lanos" 1.5i, "Chevrolet Lanos", "Chevrolet Aveo" VAZ-1117, -18, -19 "Kalina" VAZ-2170, -71, -72 "Priora"		8 power diodes	M8	soldering

RESTRICTIVE RECTIFIER UNITS 28 V								
		Name	Alternator	Application	Analogues	Quantity of diodes, pcs	«B+»	Alternator stator winding connection method*
		BVO11-150-20.34 (BBO11-150-20.34)	A125/24/-28V-90A	MAZ with engines YaMZ- 656, YaMZ-658 and others	BPV076.1.10 5-02 (БПВ076.1.10 5-02)	6 power diodes	M8	soldering
		BVO11-150-20.86 (BBO11-150-20.86)	3252.3771, 3272.3771 3252.3771-10, 3252.3771-50	MAZ with engines YaMZ- 656, YaMZ-658, YaMZ-530 and others	BPV076.1.10 5-02 (БПВ076.1.10 5-02)	6 power diodes	M8	terminal
		BVO11-150-22.88 (BBO11-150-22.88)	4242.3771 4242-03.3771	MAZ with engines YaMZ-7511 and others		8 power diodes	M8	terminal
		BVO11-150-23.M (BBO11-150-23.M)	3232.3771, 3232.3771-10 3232.3771-20 A125/23/-28V-60A	KAMAZ, MAZ with engines YaMZ-236, -238, MAZ with engines MMZ, special machinery with engines MMZ	BVO7-110- 02 (BBO7-110-02)	8 power + 3 additional diodes	M6	soldering
		BVO11-150-23.70 (BBO11-150-23.70)	3232.3771 3232.3771-10 3232.3771-20 A125/23/-28V-60A	KAMAZ with engines KAMAZ-740, MAZ with engines YaMZ-236, -238, MAZ with engines MMZ, special machinery with engines MMZ	BVO7-110- 02 (BBO7-110-02)	8 power + 3 additional diodes	M6	terminal
		BVO11-150-23.86 (BBO11-150-23.86)	4542.3771 and others	MAZ with engines YaMZ- 7511 and others with alternators 4242.3771		8 power + 3 additional diodes	M8	terminal

* - in series-produced alternators 2 methods of connecting the stator windings to the rectifier unit are used: soldering and terminal connection by soldering is less technologically advanced, but it significantly increases the reliability of the alternator. It is allowed to mount the terminal with bending / biting off the petals of the contacts for soldering.



IGNITION CONTROLLERS

	Name	Application	Analogues*	Note	
	3620.3734	VAZ-2108, VAZ-2109, "Tavria" and others	36.3734, 0529.3734, 761.3734	Icom=7,5 A.	
	3640.3734	VAZ-2108, VAZ-2109, "Tavria" and others	2108-3734910-20, FM3001 (ФМ3001), 0729.3734	Icom=7,0 A. The presence of an output low-voltage control signal for systems of electrical equipment with an electronic tachometer or with other control devices	
	0529.3734	VAZ-2108, VAZ-2109, "Tavria" and others	134.3734, 76.3734, 98.3734	Icom=7,5 A. Increased noise immunity and the working temperature range. Designed for cars with electric circuits of low quality	
	0729.3734	VAZ-2108, VAZ-2109, "Tavria" and others	BOSCH 0227100139, REMITEL 2108-3734910-05, K563.3734	Icom=7,0 A. Increased efficiency and operating temperature range. The presence of an output low-voltage control signal for systems of electrical equipment with an electronic tachometer or with other devices	
	90.3734	GAZ, ZIL (BSZ with inductive sensor without additional resistor)	131.3734, 94.3734, 84.3734-01, 1313.3734, 468 332 008	Icom=6,5 A. Since 2009 – the classical circuit diagram	
	131.3734-11	GAZ, ZIL (BSZ with inductive sensor without additional resistor)	90.3734, 131.3734, 94.3734, 84.3734-01, 1313.3734, 468 332 008	Icom=7,0 A. Signal processing microcontroller	
	1103.3734	Ignition controller with internal idle economizer control unit	"Slavuta", "Tavria" since 2001 year of manufacture, "Sens" with carbureted engines	DLE5.424.001 (ДЛЕ5.424.001)/1103.3734-02, 1103.3734-04	The unit performs the functions of an ignition controller and a control unit (IECU)

IDLE ECONOMIZER CONTROL UNITS (IECU)

	Name	Application	Analogues	Note
	5003.3761	VAZ-2108, VAZ-2109, "Tavria" and others	5003.3761	Protection of the idle economizer valve control circuit from a short-circuit on "mass" of the vehicle and protection from resistance reduction of idle economizer valve circuit
	5013.3761	VAZ-2104, VAZ-2105, VAZ-2107, VAZ-2121 and others with "Solex" carburetor	5013.3761	Protection of the idle economizer valve control circuit from a short-circuit on "mass" of the vehicle and protection from resistance reduction of idle economizer valve circuit

SENSORS

	Name	Application	Analogues	Shaft rotation direction
	3102.3855	"Chevrolet Lanos", "Daewoo Lanos" 1.5i/1.6i, "ZAZ Lanos" 1.5i, "Daewoo Matiz" 0.8i, "Chevrolet Aveo" 1.5i and others**	Has no analogues. Released as a replacement for the mechanical type throttle position sensor CTS 06595	
	3202.3855	"Slavuta", "Tavria" with injection engines, "Daewoo Lanos" 1.4i and "Daewoo Sens" since 2007 year of manufacture	Has no analogues. Released as a replacement for the mechanical type throttle position sensor 3071-1148200 (39.3855)	
	3302.3855	VAZ with injection engines, "Daewoo Lanos" 1.4i, "Daewoo Sens" until 2007 year of manufacture	2112-1148200-06 (36.3855). Released as a replacement for the mechanical type throttle position sensors 2112-1148200, 2112-1148200-03, CTS 06682	
	3502.3855	MAZ, BelAZ, PAZ, LiAZ, YaMZ Euro-3 and others with diesel-fuel equipment manufactured by JSC "YAZDA"	36.3855-20	

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** - due to the configuration of power units of cars with different types of throttle assemblies, it is possible to use different non-interchangeable throttle position sensors. When choosing a throttle position sensor, you should be guided by the shape of the sensor shaft holder.

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