



NOx SENSORS

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NOx SENSORS

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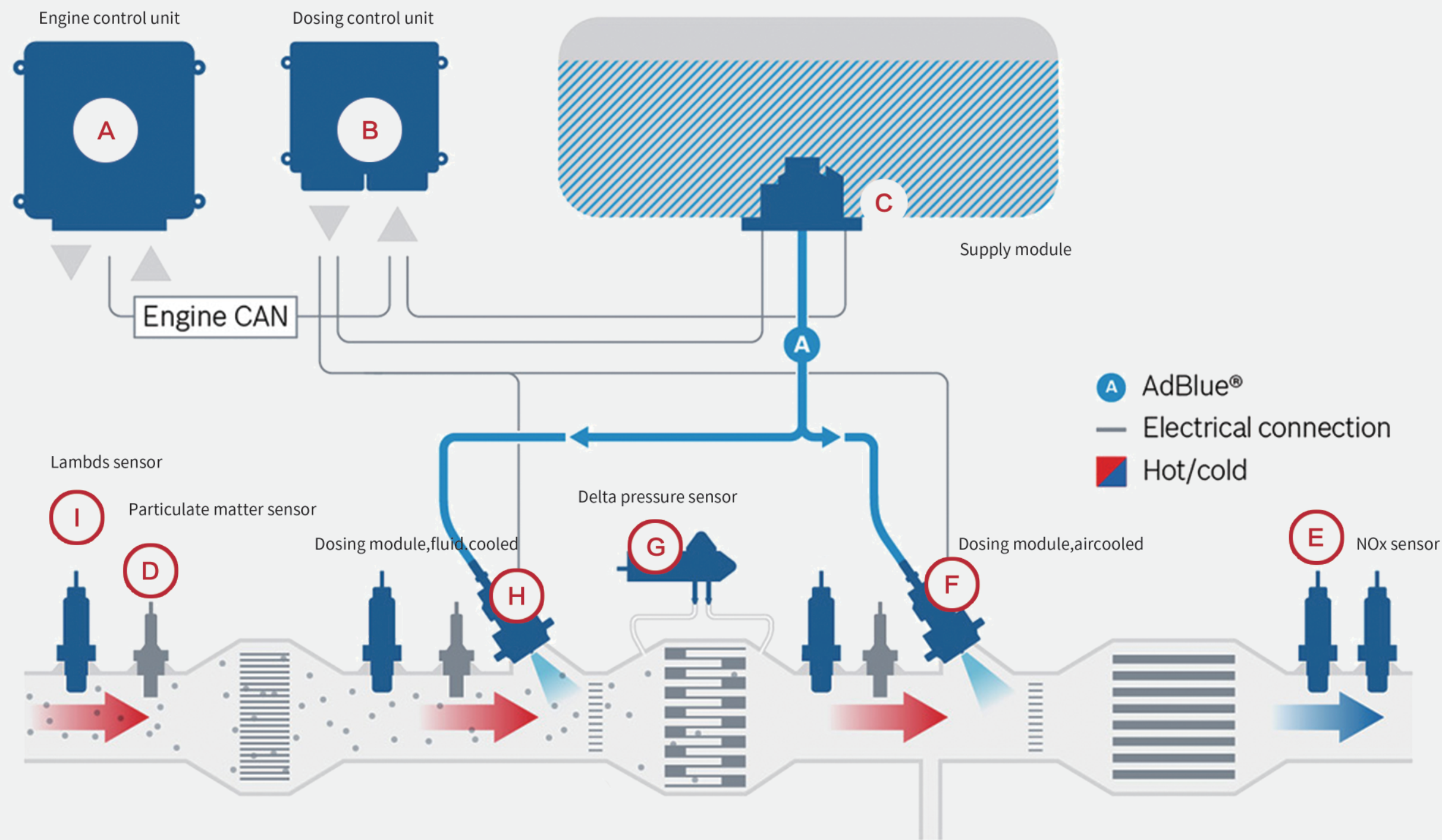
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PRODUCT DETAIL VIEW





Jiangsu Yunyi Electric Co., Ltd. was founded in July 2001 and successfully listed on Shenzhen Stock Exchange on March 21, 2012. Headquartered in Xuzhou, China, the company has 2000 employees and 8 subsidiaries. It is committed to providing high-quality automobile supporting services and has accumulated 20 years of R & D and production experience in automobile parts industry, such as lambda sensor, NOx sensor Automotive alternator rectifier and voltage regulator, plastic parts, windshield wiper blade, slip ring, etc. It has a global professional industrial base to ensure the high-quality and efficient production of various auto parts.

ABOUT US

COMPANY PROFILE



SERVICE

Globally, in the intelligent power controller industry, cloud is the strongest in the vertical integration of the industrial chain. From self-developed power controller core IC to R & D, production, manufacturing and integration of high-power diodes, cloud intends to make the best cost-effective choice all over the world. In addition, in the field of precision injection molding, Yunyi has achieved the shortest delivery cycle at the lowest cost through R & D, advanced molding equipment, independent design and automated production process.



QUALITY

The company always adheres to the operation and management principle of taking quality as the life, takes total quality management as the concept, takes zero quality defects as the goal, takes refinement of management as the criterion and lean production as the means, and has established a complete quality management and quality control system. It is a manufacturer with comprehensive vehicle rectifier and regulator testing, testing and verification equipment. It has passed many authoritative certifications such as ISO / TS16949:2002 management system certification and ISO14001 management system certification.



RESEARCH AND DEVELOPMENT

The company's core technologies are mainly distributed in the three fields of R & D, design, manufacturing and mold manufacturing. It has 169 high-tech products, 326 national patents, international advanced LIN bus regulator development technology, high-power vehicle diode manufacturing technology, intelligent regulator chip highly integrated technology and thick film circuit integration technology. It has domestic leading self-excited start-up technology of regulator, design and development technology of vehicle rectifier and regulator, and automation technology of vehicle rectifier assembly process.

We have a professional R & D team composed of 5 experts and 128 experienced technicians. We are committed to providing high-quality products and intelligent supply solutions to meet various needs of customers and realize the prosperity of the global automotive industry.

PRODUCT INTRODUCTION

FOR USE IN PASSENGER CARS AND COMMERCIAL VEHICLES

The NOx sensor can be used for 12 V and 24 V applications in passenger vehicles as well as light or heavy commercial vehicles (on and off-highway). The sensor consists of a probe and a sensor control unit (SCU) connected to one another via a wiring harness. The probe is quick and easy to install thanks to a retaining screw.

	 Mercedes-Benz		 Audi
	 CAT	 PEUGEOT	
 HINO	 CITROËN		 VOLVO
 IVECO	 CHRYSLER	 CHEVROLET	 SCANIA
 ISUZU	 HYUNDAI	 FUSO	 DAF



- 1

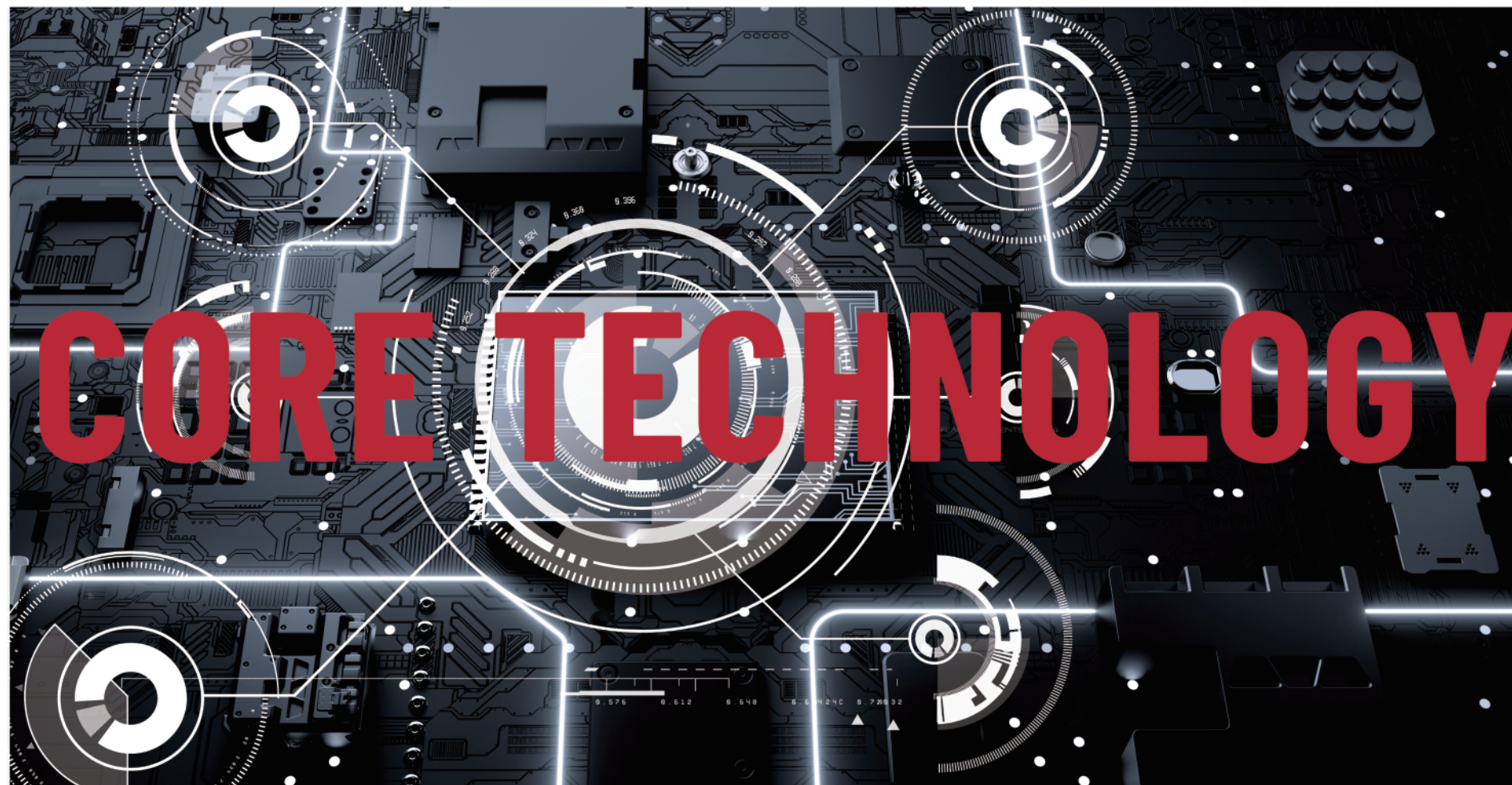
Real time high accuracy measurement.
- 2

Optimized structure of the heater structure to improves the life of
- 3

The covering on the sensor element increases the resistance to external influences,such as thermal shock.
- 4

Sensor performance independent of catalyst or ECU supplier and engine management system.
- 5

Modular “Stand-alone” N Ox sensor enabling EU/US/Japan emission standards compliancy.



CORE TECHNOLOGY

Independent R&D and design

Industrial chain vertical integration

Full automatic production

Total quality management

Industrial chain highly vertical integration
Offer the complete process flow product service from
R&D, design, parts manufacturing, assembly to test.

INDEPENDENT R&D AND DESIGN

- Software architecture and program
- Ceramic chip
- Hardware circuit and layout
- Product structure

INDUSTRIAL CHAIN VERTICAL INTEGRATION

- Ceramic chip
- PCBA
- Model, Structural parts

FULL AUTOMATIC PRODUCTION

- Ceramic chip assembly
- NOx sensor assembly
- Calibration and test

TOTAL QUALITY MANAGEMENT

- IATF 16949
- ISO 14001
- OHSAS 18001
- VDA 6.4 system
- ERP, PLM, WMS, MES, OA

TECHNICAL PARAMETER

VOLTAGE RANGE

Minimum voltage: DC 16V
Maximum voltage: DC 36V
Standard voltage: DC 28V

COMMUNICATION INTERFACE

CAN2.0B bus interface

POWER RANGE

Minimum power consumption: 0.7W (static or high gas temperature)
Maximum power consumption: 17.5w (low-end conditions with very low gas temperature and very high flow rate)
Normal power consumption: 12W (normal working current under normal mode)

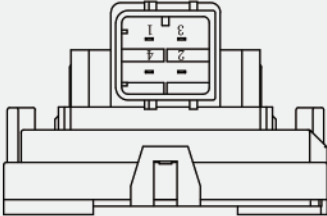
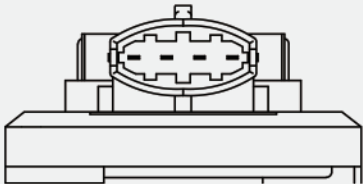
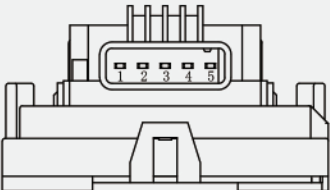
CURRENT RANGE

Minimum current: 30mA (static or high gas temperature)
Maximum current: 1100ma (low end condition with very low gas temperature and extremely high flow rate)
Normal current: 500mA (normal working current under normal mode)
*1. The sensor uses PWM to heat the sensor head, so the current described is the average circuit.

START TIME

Sensor heating start time: < 60s
Effective O2 output time: < 80s
Effective NOx output time: < 100s

PLUG TYPE

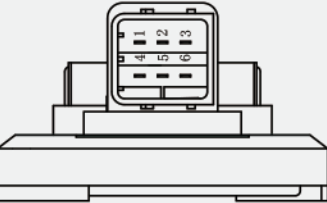
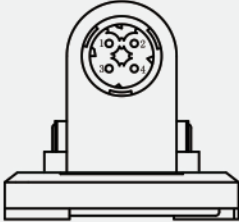
SQUARE 4-PLUG	FLAT 4-PLUG	FLAT 5-PLUG
		

MONITORING RESPONSE TIME

PROJECT	MAX	UNIT
Nox response time (τ33---66%)	1300	MS
O2 response time (τ33---66%)	1000	MS
Oxygen enrichment to oxygen depletion	500	MS
Oxygen depletion to oxygen enrichment	500	MS

MEASURING RANGE

PROJECT	MAX	UNIT
NOx	0ppm	500/3000ppm
O2	λ=0.8	Air

SQUARE 6-PLUG	ROUND 4-PLUG	OTHERS
		Customized service is available Email: sales@yunyi-china.cn

PRODUCT SERIES

COMMERCIAL VEHICLE SERIES

Cummins		
Conti No.	OE No.	Voltage
5WK9 6672	2871974	12V
5WK9 6672A	2894943	12V
5WK9 6673	2872081	12V
5WK9 6673A	2894941	12V
5WK9 6674	2871978/A029E786	12V
5WK9 6674A	2894939/A034X846	12V
5WK9 6691A	2894944	12V
5WK9 6692	2872297	12V
5WK9 6692A	2894945	12V
5WK9 6740	2872944	12V
5WK9 6740A	4326870	12V
5WK9 6740B	4326870	12V
5WK9 6741	2872946	12V
5WK9 6741A	4326874	12V
5WK9 6741B	4326874	12V
5WK9 6742	2872948	12V
5WK9 6742A	4326873	12V
5WK9 6742B	4326873	12V
5WK9 6749	2872942	12V
5WK9 6749A	4326872	12V
5WK9 6749B	4326872	12V
5WK9 6753	2872947	12V
5WK9 6753A	4326869	12V
5WK9 6753B	4326869	12V
5WK9 6764B	4326871	12V
5WK9 6614J	/	24V
5WK9 6620B	4984577	24V
5WK9 6675A	2894940/A034X847	24V
5WK9 6676A	2894942	24V
5WK9 6693A	2894946	24V
5WK9 6714B	/	24V
5WK9 6755A	/	24V
5WK9 6756A	/	24V
5WK9 7103A	/	24V
5WK9 7103B	/	24V
SNS 3510	/	UNI

Cummins		
Conti No.	OE No.	Voltage
5WK9 6750	2897307	24V
5WK9 6750A	4326472	24V
5WK9 6750B	4326864	24V
5WK9 6750C	4326864	24V
5WK9 6751C	4326862	24V
5WK9 6752C	4326868	24V
5WK9 6754B	4326867	24V
5WK9 6754C	4326867	24V
5WK9 6760A	4327153	24V
5WK9 6761	4359309	24V
SNS 0161B	4359309	24V
5WK9 6765B	4326863	24V
5WK9 6765C	4326863	24V
5WK9 6766C	4326861	24V
5WK9 7348A	4326769	24V
SNS 0348B	4326769	24V
SNS 1051	5593951	24V
/	5593958	24V
SNS 1053	5594572	24V
SNS 1094	5594608	24V

DAF		
Conti No.	OE No.	Voltage
5WK9 6660C	1889126	12V
5WK9 6759	1932604	12V
5WK9 6759B	1973528	12V
5WK9 6759C	2006246	12V
5WK9 6619D	2011648	24V
5WK9 6626B	1836061	24V
5WK9 6626C	2011650	24V
5WK9 6628B	1836060	24V
5WK9 6628C	2011649	24V
5WK9 6661D	2006245	24V
SNS 0061F	2236408	24V
SNS 0061G	2293965	24V
SNS 0344D	2236406	24V

PRODUCT SERIES

COMMERCIAL VEHICLE SERIES

BENZ		
Conti No.	OE No.	Voltage
5WK9 6616F	A009 153 36 28	24V
5WK9 6642B	A008 153 98 28	24V
/	A010 153 94 28	24V
/	A010 153 93 28	24V
5WK9 6652B	A008 153 99 28	24V
5WK9 6653B	A009 153 00 28	24V
5WK9 6653C	A010 153 95 28	24V
5WK9 6659B	A009 153 01 28	24V
5WK9 6659C	A010 153 96 28	24V
5WK9 7329A	A010 153 14 28	24V
5WK9 7330A	A010 153 15 28	24V
5WK9 7331A	A010 153 16 28	24V
5WK9 7332A	A010 153 17 28	24V
SNS 1023	A011 153 71 28	24V
SNS 1024	A011 153 72 28	24V
SNS 1025	A011 153 73 28	24V
SNS 1026	A011 153 74 28	24V
5WK9 7337A	A010 153 21 28	12V
5WK9 7338A	A010 153 22 28	12V
5WK9 7339A	A010 153 23 28	12V
5WK9 7341A	A010 153 19 28	12V
/	A011 153 64 28	12V
5WK9 7403	A010 153 81 28	12V

SCANIA		
Conti No.	OE No.	Voltage
5WK9 6612F	2296799	24V
5WK9 7400	2294290	24V
5WK9 7401	2294291	24V
5WK9 6694C	2296800	24V
5WK9 6695C	2296801	24V

MAN		
Conti No.	OE No.	Voltage
5WK9 6618D	5115408-0015	24V
5WK9 6618B	5115408-0009	24V
5WK9 6783A	5115408-0011	24V
5WK9 6783B	5115408-0018	24V
5WK9 6721B	5115408-0016	24V
5WK9 6722B	5115408-0017	24V
5WK9 6790B	5115408-0019	24V

ISUZU		
Conti No.	OE No.	Voltage
5WK9 6731	89819 24560	12V
5WK9 6731A	89823 13911	12V
5WK9 7210	89824 65060	12V
5WK9 7206A	89830 23940	24V

Fuso		
Conti No.	OE No.	Voltage
5WK9 6680A	ML239040	12V
5WK9 6680B	ME229792	12V
5WK9 6680C	ME230283	12V

Hino		
Conti No.	OE No.	Voltage
5WK9 6715A	89463-37021	24V
5WK9 6668	E0020	12V
5WK9 6668A	89463-E0450	12V
5WK9 6668B	89463-E0451	12V
5WK9 6667B	89463-E0012	24V
5WK9 6667C	89463-E0013	24V
5WK9 6786	89463-E0480	24V

PRODUCT SERIES

COMMERCIAL VEHICLE SERIES

VOLVO		
Conti No.	OE No.	Voltage
5WK9 6605C	20873395	24V
5WK9 6664D	21473997	24V
5WK9 6665	21040930	24V
5WK9 6717A	21984358	24V
5WK9 6717B	22219283	24V
5WK9 6718A	22219281	24V
5WK9 6718B	22219281	24V
5WK9 7368	22827991	24V
5WK9 7371	22827993	24V
5WK9 7372	22827995	24V
5WK9 7373	22827992	24V
5WK9 6643D	21636088	12V
5WK9 6643E	22014032	12V
5WK9 6644B	21479638	12V
5WK9 6644C	21567764	12V
5WK9 6644E	21636091	12V
5WK9 7364	22303383	12V
5WK9 7365	22303384	12V
5WK9 7366	22303391	12V
5WK9 7367	22303390	12V

IVECO		
Conti No.	OE No.	Voltage
5WK9 6615F	5801754015	24V
5WK9 6733B	5801754016	24V
5WK9 6734A	5801443022	24V
5WK9 6711C	84414466	24V
5WK9 6720A	5801777219	24V
5WK9 6775A	5801754014	24V
SNS 3072	5802482142	12V
SNS 3032A	5802463098	12V

Hyundai		
Conti No.	OE No.	Voltage
5WK9 7301	29650-84310	24V
5WK9 7302	29650-84320	24V
5WK9 7304	29650-84340	24V
5WK9 7306	29655-84300	24V
5WK9 7307	29655-84320	24V
SNS 0303A	29650-84300	24V
SNS 0304A	29650-84340	24V
SNS 0305A	29655-84330	24V

PASSENGER CAR SERIES

BMW		
Conti No.	OE No.	Voltage
5WK9 6610K	7 587 129 05	12V
5WK9 6610L	7 587 129 03	12V
5WK9 6621G	7 587 130 02	12V
5WK9 6621H	7 587 130 03	12V
5WK9 6621J	7 587 130 05	12V
5WK9 6621F	7 587 130 01	12V
5WK9 6640D	8 509 721 01	12V
5WK9 6697A	8 518 789 01	12V
5WK9 6697B	8 576 469 01	12V
5WK9 6697C	8 589 844 01	12V
5WK9 6698B	8 576 470 01	12V
5WK9 6699A	8 518 791 01	12V
5WK9 6699B	8 576 471 01	12V
5WK9 6699C	8 589 846 01	12V

PRODUCT SERIES

PASSENGER CAR SERIES

BENZ		
Conti No.	OE No.	Voltage
5WK9 6677	A006 542 72 18	12V
5WK9 6632	A006 542 09 18	12V
5WK9 6683	A000 905 29 00	12V
5WK9 6682	A000 905 30 00	12V
5WK9 6681	A000 905 51 00	12V
5WK9 6681A	A000 905 69 00	12V
5WK9 6682A	A000 905 70 00	12V
5WK9 6683A	A000 905 71 00	12V
5WK9 6681C/D	A000 905 34 03	12V
5WK9 6682B/C/D	A000 905 35 03	12V
5WK9 6683C/D	A000 905 36 03	12V
5WK9 6771B	A000 905 39 03	12V
5WK9 6681E	A000 905 96 03	12V
/	A000 905 96 03	12V
5WK9 6682E	A000 905 97 03	12V
5WK9 6683E	A000 905 98 03	12V
SNS 381	A000 905 47 04	12V
5WK9 7248	A000 905 61 04	12V
5WK9 6681F	A000 905 35 06	12V
5WK9 6682F	A000 905 36 06	12V
5WK9 6683F	A000 905 37 06	12V
/	A000 905 00 08	12V
/	A000 905 01 08	12V
SNS 381A	A000 905 71 08	12V
/	A000 905 27 09	12V
/	A000 905 28 09	12V
SNS 381B	A000 905 30 09	12V
SNS 424B	A000 905 31 09	12V
SNS 1005	A000 905 80 11	12V
SNS 1006	A000 905 81 11	12V
/	A000 905 84 11	12V
/	A000 905 85 11	12V
/	A000 905 86 11	12V
/	A000 905 15 12	12V
/	A000 905 16 12	12V
/	A000 905 56 12	12V

BENZ		
Conti No.	OE No.	Voltage
/	A000 905 57 12	12V
/	A000 905 58 12	12V
SNS 1048A	A000 905 91 12	12V
5WK9 6703	A000 905 01 26	12V

PSA		
Conti No.	OE No.	Voltage
5WK9 6745A	96753 58480	12V
5WK9 6746A	96785 70780	12V
SNS 164A	96785 70780	12V
SNS 404	98178 39480	12V
SNS 405	98178 41080	12V
SNS 465	98174 54580	12V

DS		
Conti No.	OE No.	Voltage
SNS 0732	98211 20780	12V
SNS 0733	98173 08880	12V
SNS 0735	98211 21180	12V
SNS 0736	98211 20980	12V
SNS 0732A	98211 20780	12V

Hyundai Kia		
Conti No.	OE No.	Voltage
SNS 0811A	29640-2F140	12V
SNS 0812A	29640-2FRD0	12V
SNS 0816A	29650-2U200	12V
SNS 0817A	29660-2U200	12V
SNS 0818A	29650-2U250	12V
SNS 0820A	29650-2U150	12V
SNS 0833A	29650-4C100	12V
SNS 0834A	29650-4C200	12V
SNS 0847A	29640-2F170	12V

PRODUCT SERIES

PASSENGER CAR SERIES

VW		
Conti No.	OE No.	Voltage
5WK9 6737A	03L907807 AE	12V
SNS 436A	04L907805 AK	12V
SNS 472	04L907805 AS	12V
5WK9 7239	04L907805 P	12V
5WK9 7235	04L907805 M	12V
5WK9 6685A	059907807 G	12V
5WK9 7229	059907807 J	12V
5WK9 7230	059907807 L	12V
SNS 451	4G0907807 S	12V
SNS 458	4G0907807 AB	12V
5WK9 6795	4H0907807 E	12V
5WK9 6637B	059907807 C	12V
5WK9 6638B	8K0907807 C	12V
5WK9 6688	8K0907807 E	12V
5WK9 7258	8W0907807 C	12V
5WK9 7267	04G907807 M	12V
5WK9 7226	04L907805 G	12V

Renault		
Conti No.	OE No.	Voltage
5WK9 6747	22790 8539R	12V
5WK9 6748	22790 5444R	12V
SNS 148A	22790 5444R	12V
SNS 1014	22790 2682R	12V
SNS 1015	22790 5433R	12V

FORD		
Conti No.	OE No.	Voltage
SNS 361	HC3A-5L248-CB	12V
SNS 3031	LC3A-5L248-AB	12V
SNS 449	JL3A-5L248-BB	12V
SNS 977A	LK21-5L248-AC	12V

GM		
Conti No.	OE No.	Voltage
5WK9 6709	55570097	12V
5WK9 6631C	12642310	12V
5WK9 6735A	12662658	12V
5WK9 6645D	12648631	12V
5WK9 6645H	12669595	12V
SNS 168B	55500320	12V
SNS 167B	55500319	12V
SNS 157A	55503927	12V
SNS 430	55495830	12V
5WK9 7390A	55495040	12V
SNS 390B	55496922	12V
SNS 391B	55496923	12V
5WK9 7418	55589456	12V
5WK9 7419	55589458	12V
5WK9 6758	55498413	12V
SNS 317A	12680215	12V
SNS 318	12676706	12V

DODGE CHRYSLER		
Conti No.	OE No.	Voltage
5WK9 6651	05149216AB	12V
5WK9 6651A	05149216AB	12V
5WK9 6684	68067521AA	12V
5WK9 6684A	68067521AA	12V
5WK9 6730	68085740AA	12V
5WK9 6799	68197109AA	12V
5WK9 7360_	68227486AA	12V

PRODUCT SERIES

OFF-HIGHWAY VEHICLE SERIES

Cater Pillar		
Conti No.	OE No.	Voltage
5WK9 7356_	441-5129-03	12V
5WK9 7357_	441-5130-03	12V
5WK9 6725A	359-9171-02	24V
5WK9 6726A	359-9172-02	24V
/	441-5127-03	24V
/	441-5128-04	24V
5WK9 7354_	441-5127-01	24V
5WK9 7355_	441-5128-01	24V

John Deere		
Conti No.	OE No.	Voltage
5WK9 6784	RE553440	12V
5WK9 6785	RE553441	24V
5WK9 6773	RE552182	12V
5WK9 6774	RE552183	24V
5WK9 7351_	RE575063	12V
5WK9 7352_	RE575062	24V
SNS 350	DZ109689	12V
SNS 352_	DZ109125	24V
SNS 353_	DZ109126	24V

Doosan		
Conti No.	OE No.	Voltage
SNS 3073A	301308-01130	12V
SNS 3074A	301308-01131	12V

LIEBHERR		
Conti No.	OE No.	Voltage
5WK9 6716	11008787	24V

Germban		
Conti No.	OE No.	Voltage
5WK9 6622	/	12V

Kubota		
Conti No.	OE No.	Voltage
5WK9 6755A	A2C95912900-1	12V

DEUTZ		
Conti No.	OE No.	Voltage
5WK9 7422	02937841	12V