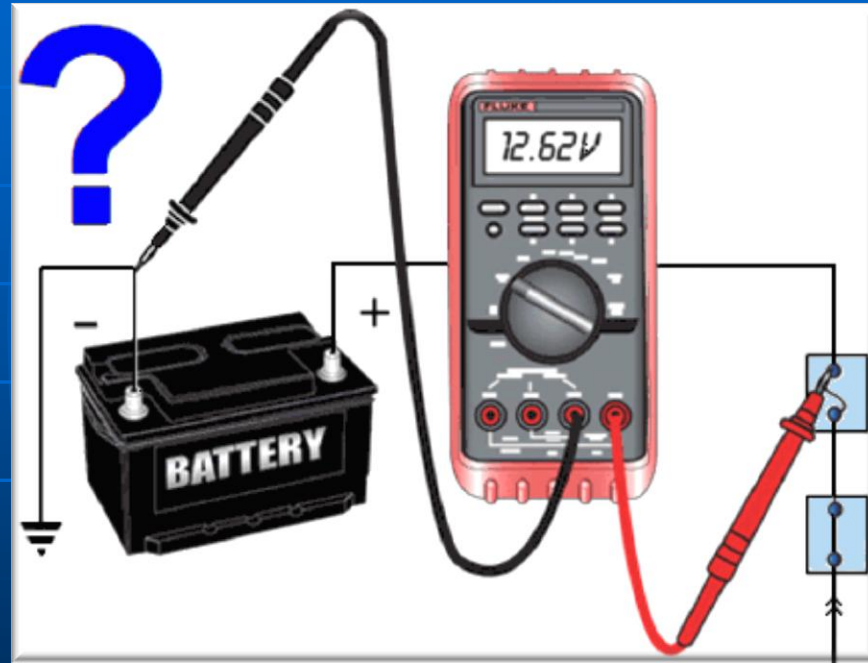
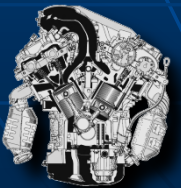


Семинар-2013
Современные генераторы
Инновации

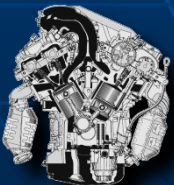
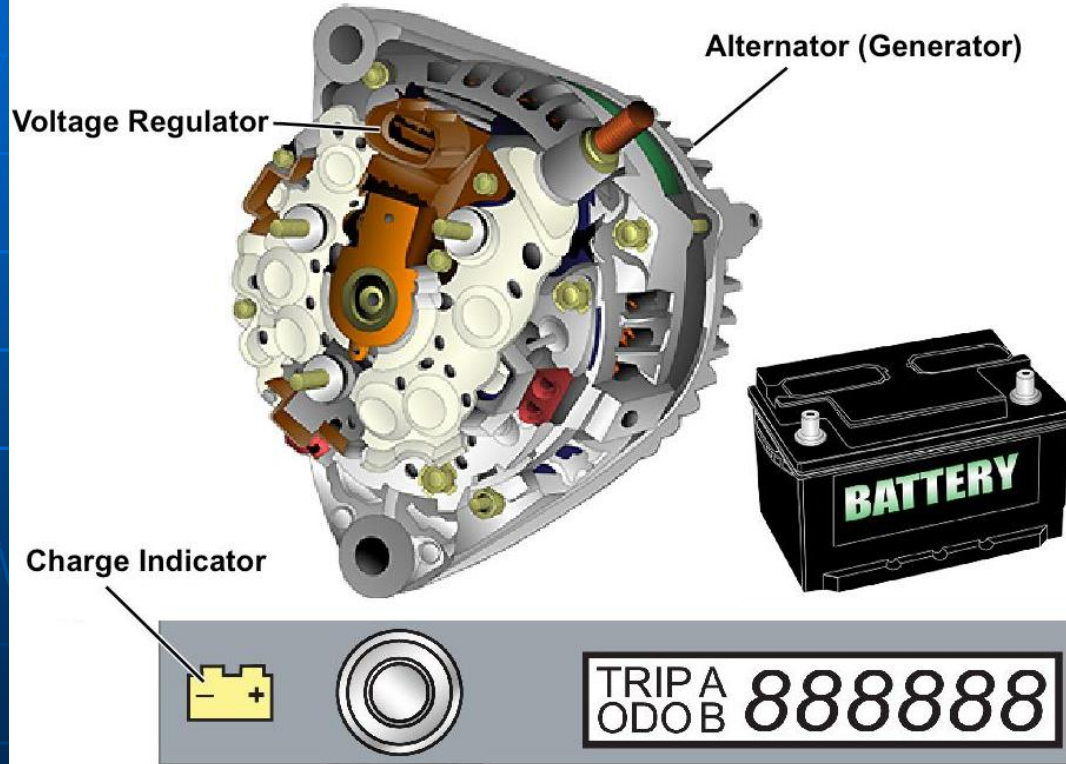


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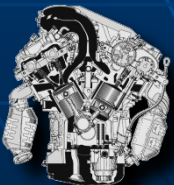
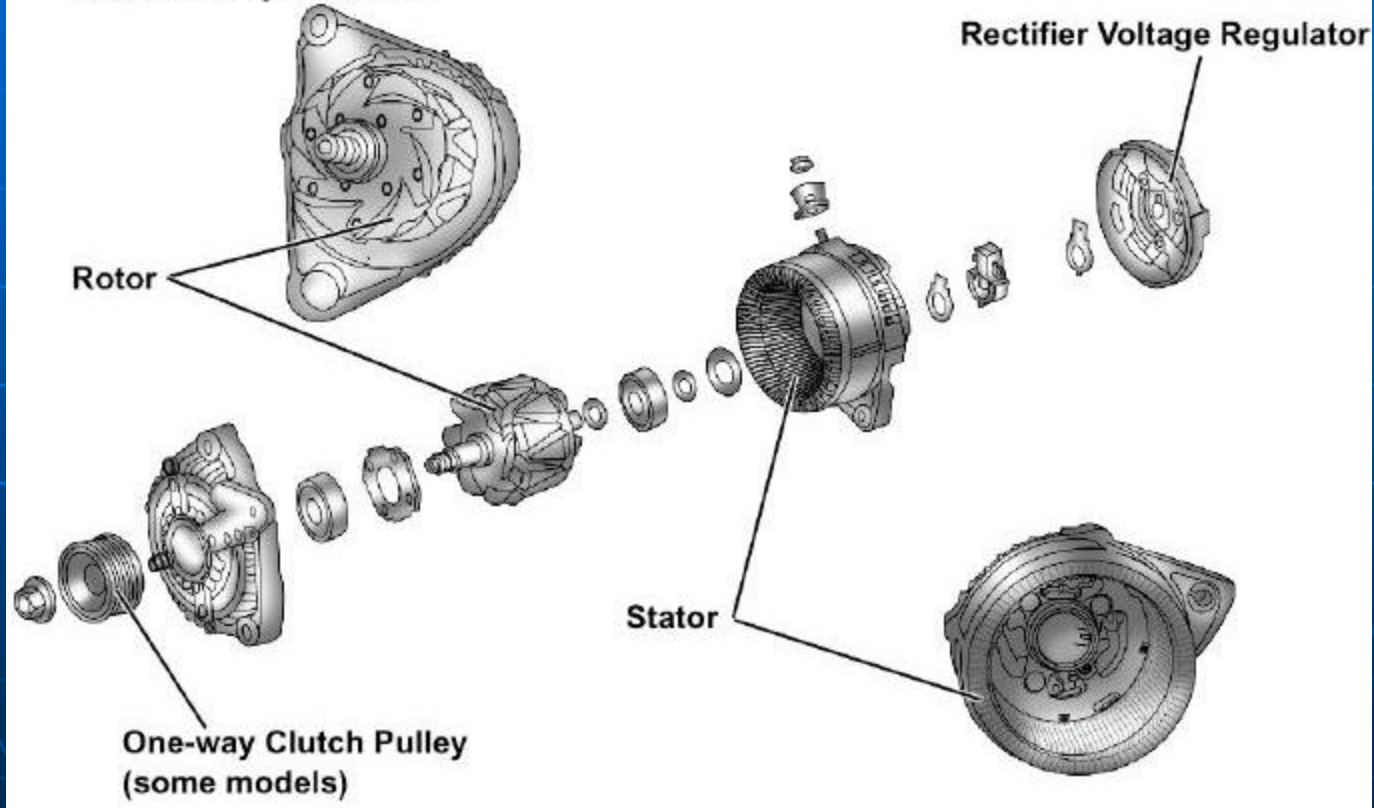
Charging System Components



Современные генераторы

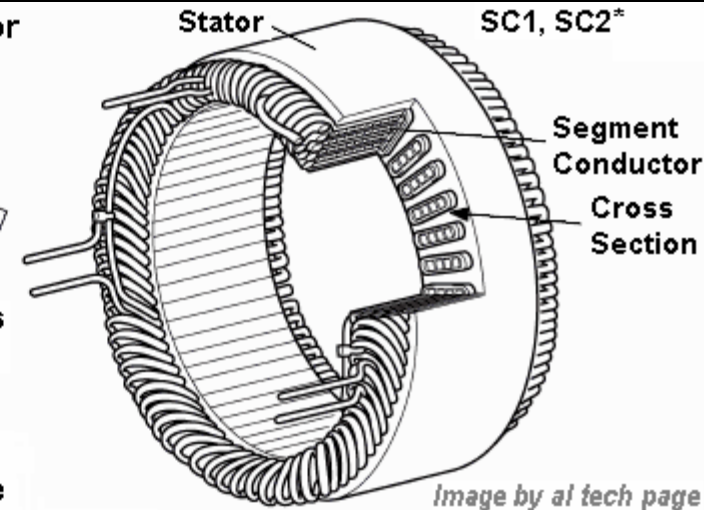
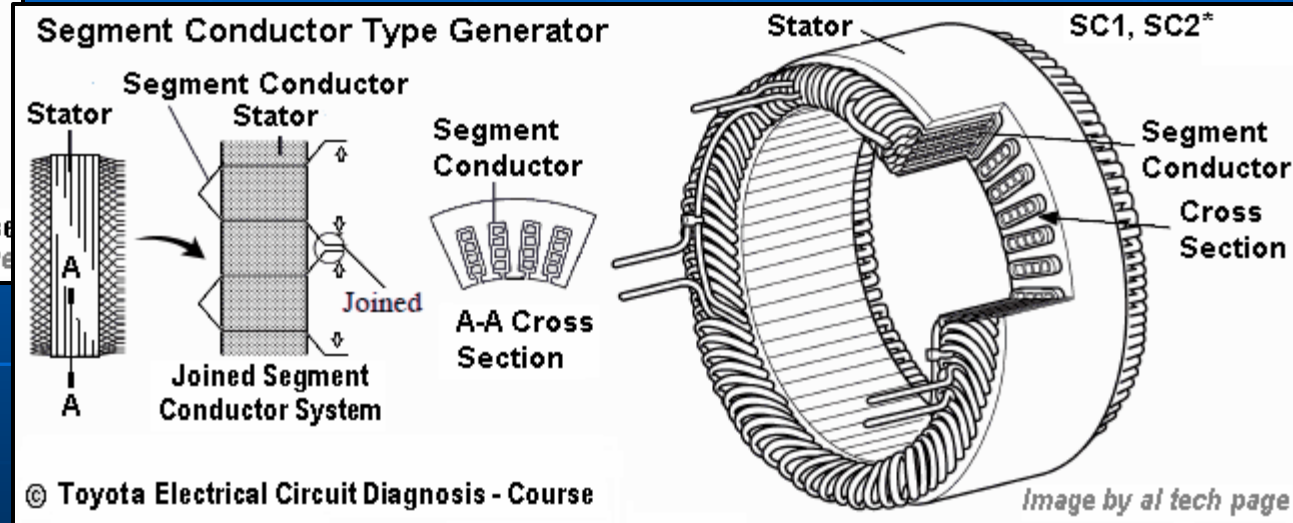
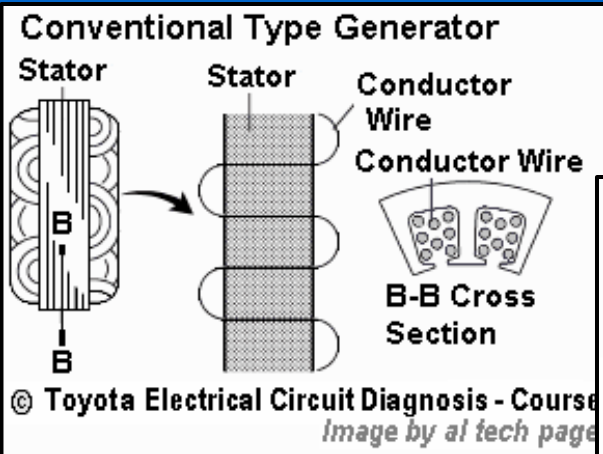
Exploded view of the alternator's main components.

Alternator

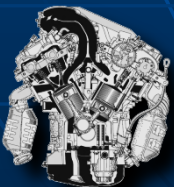


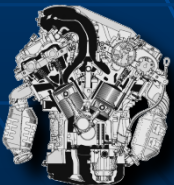
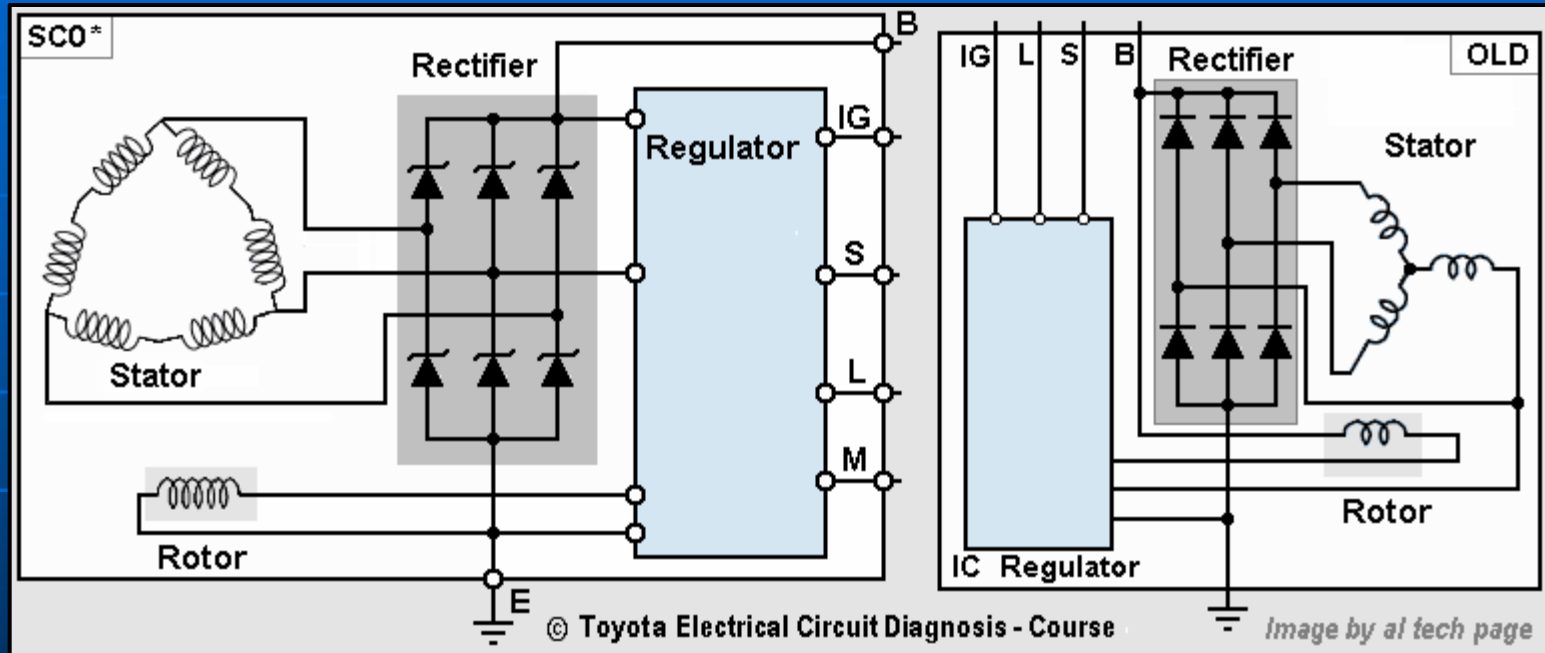
Современные генераторы

ИННОВАЦИИ



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Преимущества

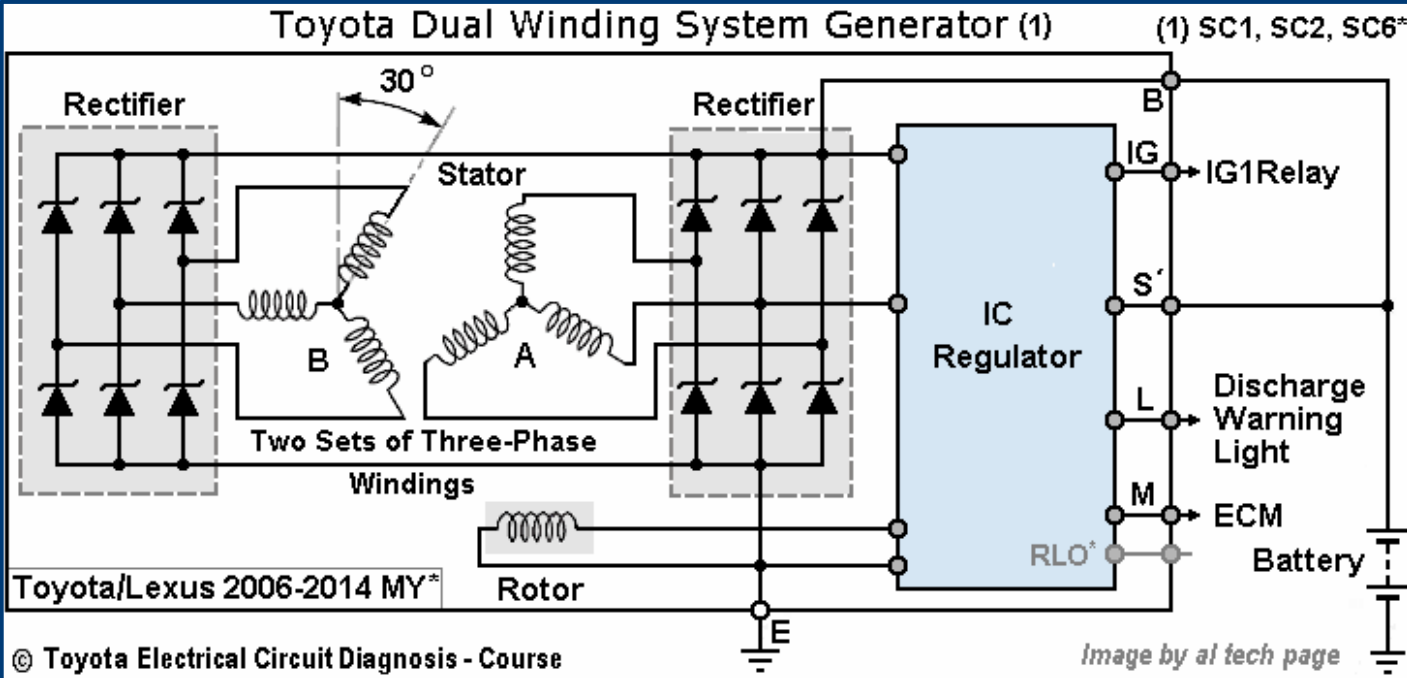
- Снижение пульсаций, помех и магнитных шумов
- Уменьшение потерь
- Увеличение удельной мощности

Инновации

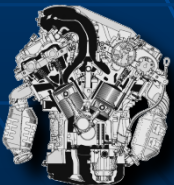
- 2 набора 3-фазных сегментированных обмоток
- Интегральное изготовление статора и обмоток

- Использование диодов Шоттки

Toyota Dual Winding System Generator (1)

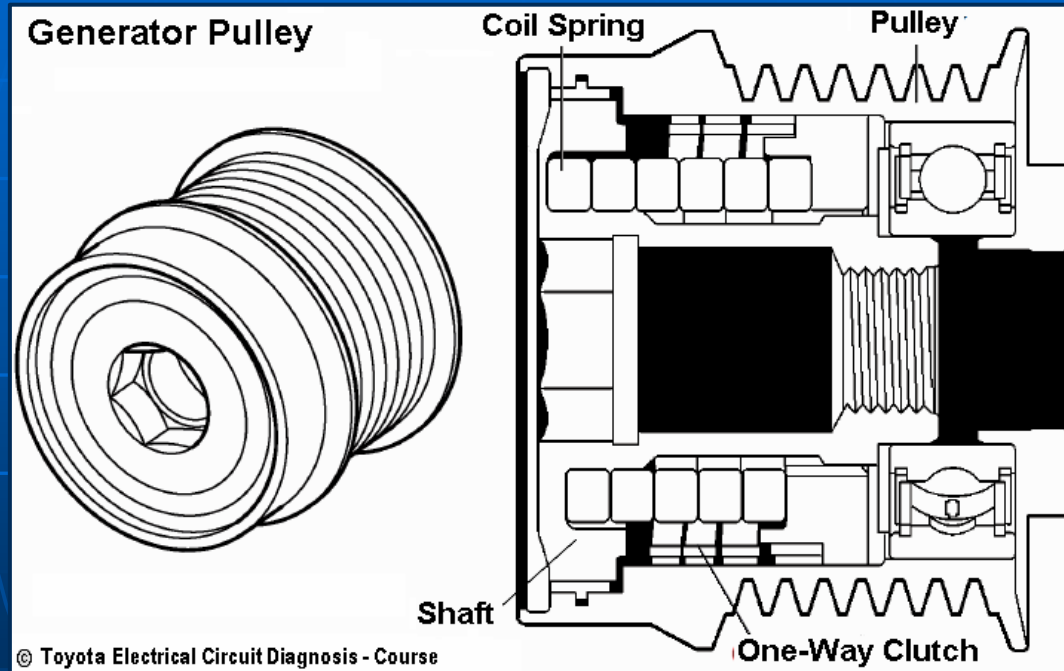


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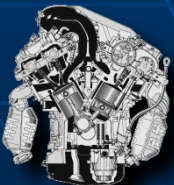


Современные генераторы

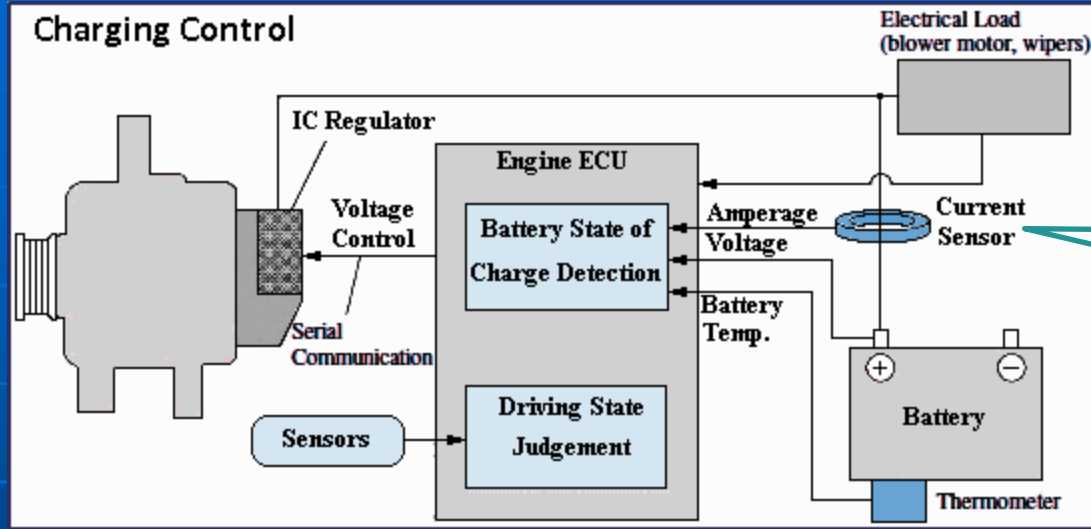
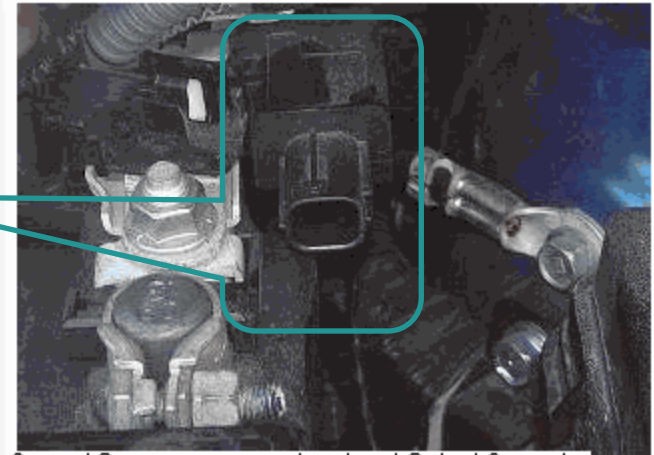
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Современные генераторы

**Battery Current Sensor** *Image by al tech page*

Current Sensor measures Input and Output Current
Thermometer measures battery temperature by thermistor
Both Sensors outputs to Engine ECU

Современные авто (например, Тойота/Лексус с двигателями 2AZ-FE, 2GR-FE, 1NR-FE и др.) используют датчик тока и датчик температуры аккумулятора

Некоторые коды неисправности (DTCs).

P0516 Battery Temperature Sensor Circuit Low; P0517 Battery Temperature Sensor Circuit High;

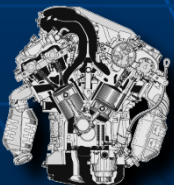
P1550 Battery Current Sensor Circuit;

P1551 Battery Current Sensor Circuit Low;

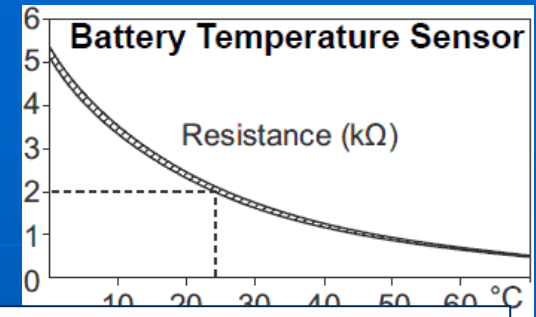
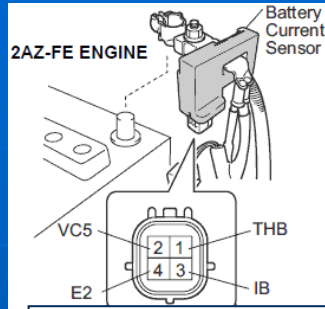
P1552 Battery Current Sensor Circuit High;

P1602 Deterioration of Battery.

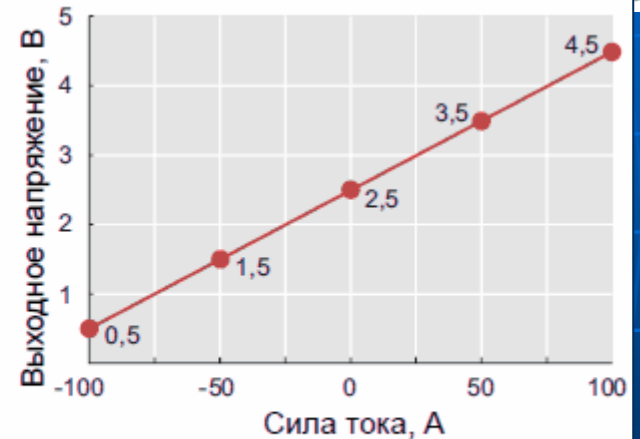
Затока - 2013



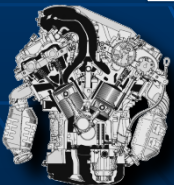
Современные генераторы Инновации



* Датчики тока и температуры АКБ могут быть выполнены отдельно.



Выходное напряжение датчика тока АКБ



Современные генераторы

1NRFE

Input VIN

YARIS_ECHO_11

- File Notes
- + Health Check
- + Engine and E
- Charging Co
- DTC/Monit
- Data 4.**

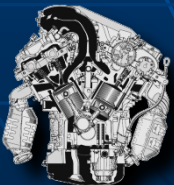
Diagnostic Code:

Code	Description	Current	Pending	History	Summary
P0517	Battery Temperature Sensor Circuit High	X			
P1551	Battery Current Sensor Circuit Low	X			

New DTC for Corolla a '14

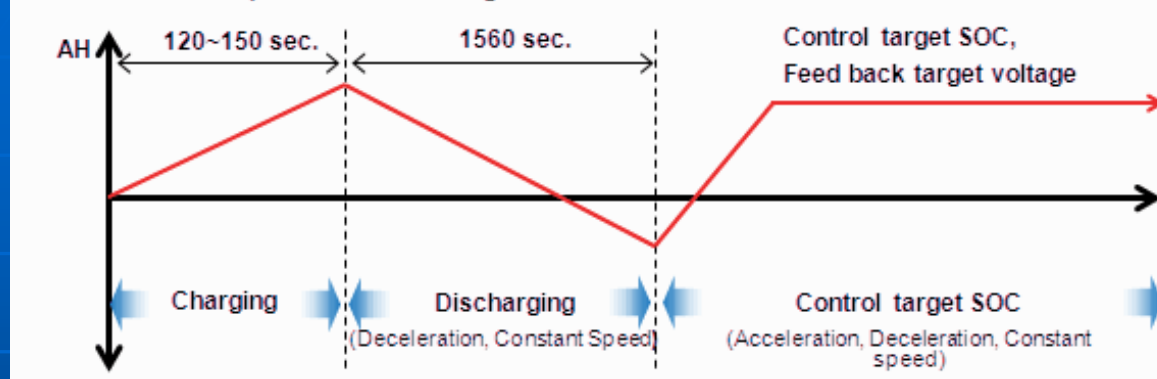
P161A	LIN Communication Error with Generator	A reception error in the generator control ECU or generator continues for approx. 17 minutes or more with the ignition switch ON (1 trip detection logic).
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Современные генераторы

Generation of ampere after starting

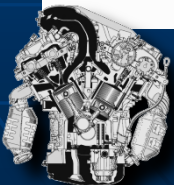
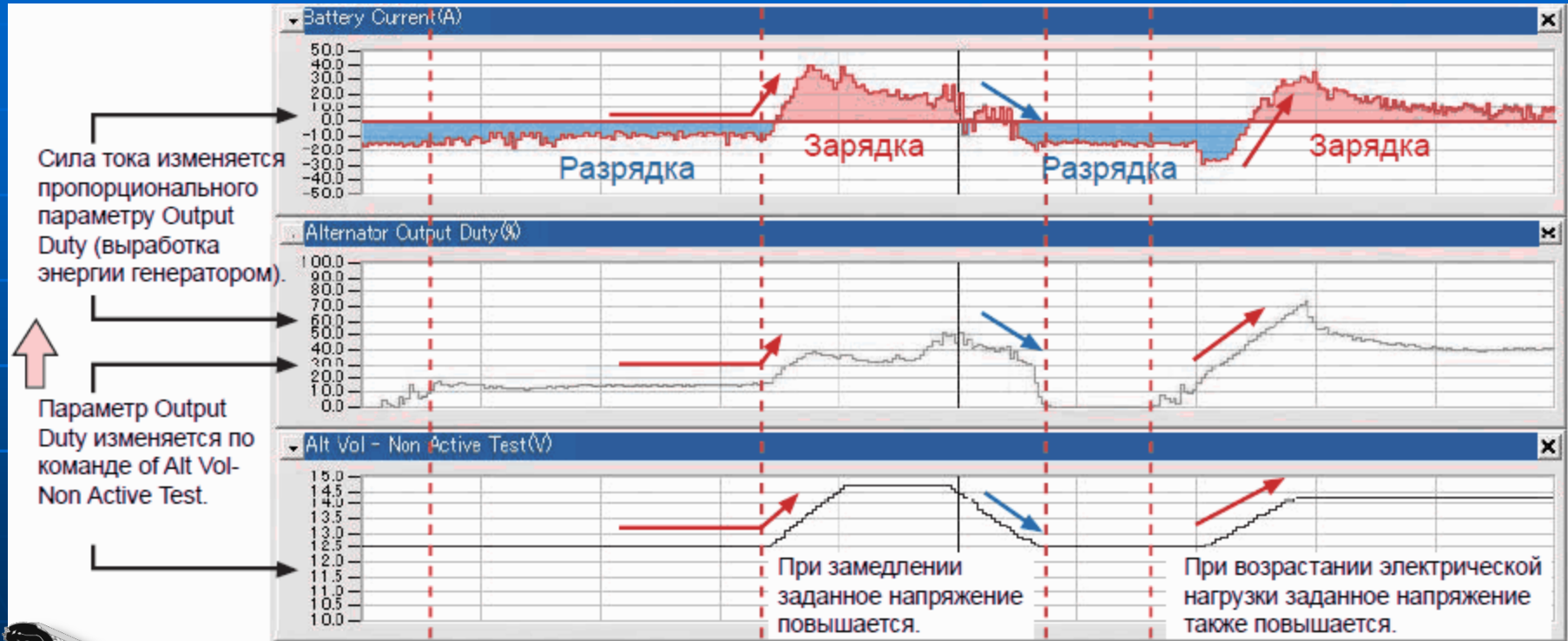


Charging Control Operation Example:

Vehicle Condition	Idling	Acceleration	Constant Speed	Deceleration	Idling	Acceleration	Deceleration	Idling
Generation Mode	Variable Voltage	Lo	Variable Voltage	Hi	Variable Voltage	Lo	Hi	Variable Voltage
Battery State of Charge (SOC)								
Generated Voltage								
Vehicle Speed Pattern								

Современные генераторы

Инновации



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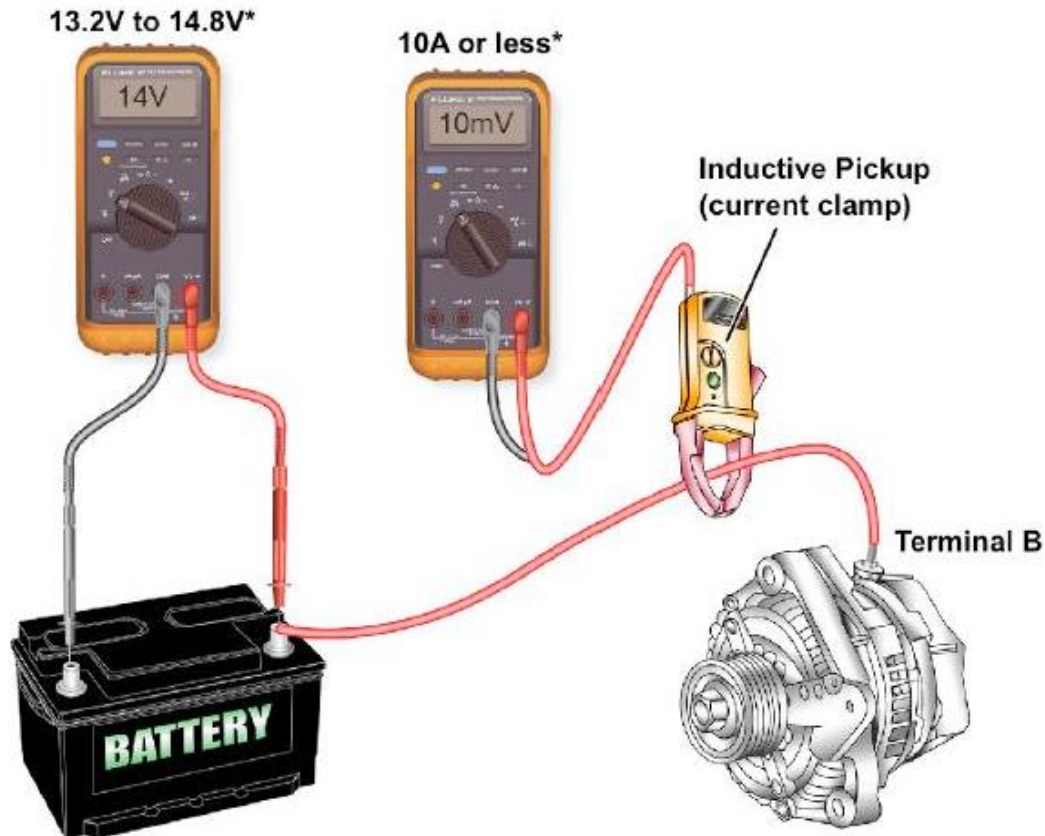


Alternator Output Test (no load)

Measure battery voltage and charging current at 2,000* rpm.

Note: The inductive pickup should be rated for high current.

*Specifications for
2010 Camry 2GR-FE



Для заметок



Семинар-2013
Современные генераторы
Инновации
Семинар
“Диагностика и авторемонт”



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