

LD 200S18

LOAD DUMP GENERATOR



FOR TESTS ACCORDING TO ...

- › Toyota TSC3590G
- › Toyota TSC7001G
- › Toyota TSC7203G

LD 200S18 - LOAD DUMP GENERATOR AS PER TOYOTA

Load Dump pulses simulate the sudden disconnection (e.g. by corrosion) of the battery from the alternator while the alternator is generating current to load the battery. Such Load Dump pulses are high energy pulses with a high potential of destruction.

The LD 200S18 generates the Field Decay pulse and the Spark Test pulse as per Toyota specification.

HIGHLIGHTS

- › **LOAD DUMP GENERATOR AS PER TOYOTA SPECIFICATION**
- › **GENERATES FIELD DECAY AND SPARK TEST PULSES**
- › **BUILT-IN DC SWITCH FOR SPARK TEST**
- › **BUILT-IN COUPLING NETWORK FOR 60V/25A DC**
- › **FRONT PANEL OPERATION**
- › **STANDARD TEST ROUTINES**
- › **RS232 AND GPIB INTERFACES**

APPLICATION AREAS



AUTOMOTIVE

TECHNICAL DETAILS

FIELD DECAY PULSE

Output voltage	100V ± 2V into a 25ohm load
Rise time	< 1ms
Pulse duration	20ms ± 1ms (measured at tau)
Output voltage	120V ± 2V into a 1,000ohm load
Rise time	< 1ms
Pulse duration	Not specified
Output resistor	5ohm ± 2%
Polarity	Negative

SPARK TEST (REQUIRES AN EXTERNAL DC SUPPLY)

Output voltage	-46V ± 1V into a 25ohm load
	-462V ± 10V into a 1,000ohm load
Pulse duration	1ms ± 0.5ms before Field Decay pulse
Output resistor	300ohm ± 10ohm (included in LD 200S18)
Polarity	Negative
DC switch	To couple the Spark Test to the DUT

COUPLING

Battery Supply	max. 60V/50A with 100A inrush current
Superimposed	+ line
Decoupled	By electronic battery switch
Battery supply	External DC source or battery is required

TRIGGER

Automatic	Automatic pulse release
CRO trigger	5V trigger signal for oscilloscope
Counter	1 - 1,000,000

TEST ROUTINES

Standard Test routines	Field Decay as per Toyota TSC7001G routines
Service	Service, setup, self test

INTERFACE

Serial interface	RS 232, baud rate 1,200 - 19,200
Parallel interface	IEEE 488, address 1 - 30

SAFETY

Safety circuit	Control input (24Vdc)
Warning lamp	Floating output contact

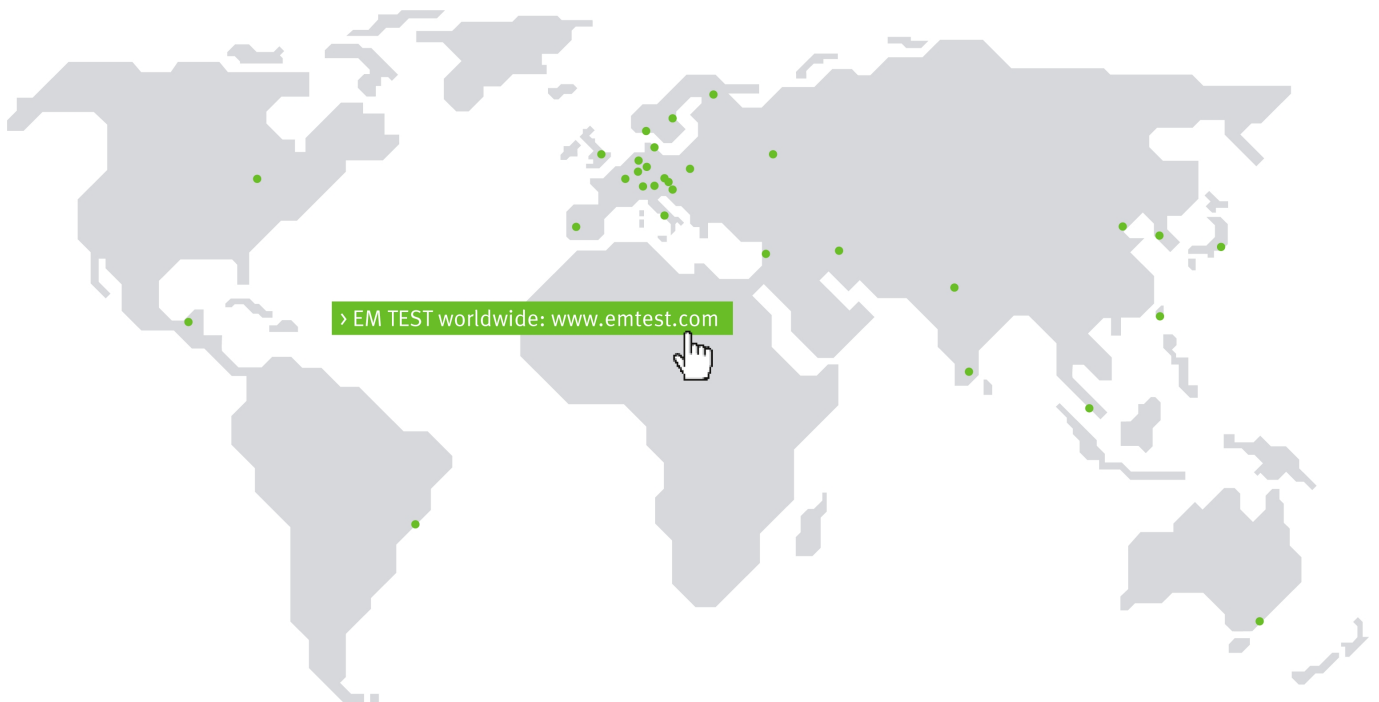
GENERAL DATA

Dimensions, weight	19"/3HU, approx. 12kg
Supply voltage	115/230V +10/-15%
Fuses	2 x 1AT

OPTION

RDS 200S1	DC voltage supply, 600V/3A Connected to the Spark Test supply input at the rear of the LD 200S18
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COMPETENCE WHEREEVER YOU ARE



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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release.
 Technical data subject to change without further notice.