

# LD 200S19

## LOAD DUMP GENERATOR



### FOR TESTS ACCORDING TO ...

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

### LD 200S19 - 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 200S19 generates the Load Dump pulses Test 1, Test 2 (Giant Pulse) and Test 3 as per Toyota specification.

### HIGHLIGHTS

- › **LOAD DUMP GENERATOR AS PER TOYOTA SPECIFICATION**
- › **GENERATES PULSES TEST 1, TEST 2 AND TEST 3**
- › **BUILT-IN COUPLING NETWORK FOR 60V/25A DC**
- › **FRONT PANEL OPERATION**
- › **STANDARD TEST ROUTINES**
- › **RS232 AND GPIB INTERFACES**

### APPLICATION AREAS



AUTOMOTIVE

## TECHNICAL DETAILS

### LOAD DUMP TEST 1 AS PER 5.5.3

Voltage (o.c.)	80V ± 2V
Rise time	< 10us
Pulse duration	52us ± 5us (measured at tau)
Output resistor	2.5ohm
Polarity	Positive
Repetition time	1 pulse each 5ms
Test time	10min
Coupling	Superimposed to the battery supply line
Set-up	As per fig. 8, paragraph 5.5.3

### LOAD DUMP TEST 2 - GIANT PULSE - AS PER 5.5.4

Voltages (o.c.)	50V ± 2V 80V ± 2V 110V ± 2V
Rise time	< 1ms
Pulse duration	188ms ± 4ms (measured at tau)
Output resistor	2.5ohm
Polarity	Positive
Repetition time	1 pulse per minute
Coupling	Superimposed to the battery supply line
Setup	As per fig. 10, paragraph 5.5.4

### LOAD DUMP TEST 3 - HIGH REPETITIVE LOAD DUMP AS PER 5.5.5

Voltage (o.c.)	80V ± 2V
Rise time	< 10us
Pulse duration	52us ± 5us (measured at tau)
Output resistor	2.5ohm
Polarity	Positive
Repetition time	1 pulse each 5ms
External dc source	Available at customer site, max. 30V out
Positive pole surge	+30V +0V/-1V
Duration	300ms
Repetition time	1 pulse per minute
Control	DC supply controlled by LD 200S19
Coupling	Superimposed to the battery supply line
Set-up	As per fig. 12, paragraph 5.5.5

### TRIGGER

Automatic	Automatic pulse release
Counter	1 - 1,000,000
Battery supply	Max. 60V/50A with 100A inrush current External DC source or battery is requested
Superimposed	+ line
Decoupled	By diode network

### TEST ROUTINES

Standard Test routines	Load Dump Test 1 as per Toyota TSC7001G Load Dump Test 2 as per Toyota TSC7001G Load Dump Test 3 as per Toyota TSC7001G
Service	Service, setup, self test

### INTERFACE

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

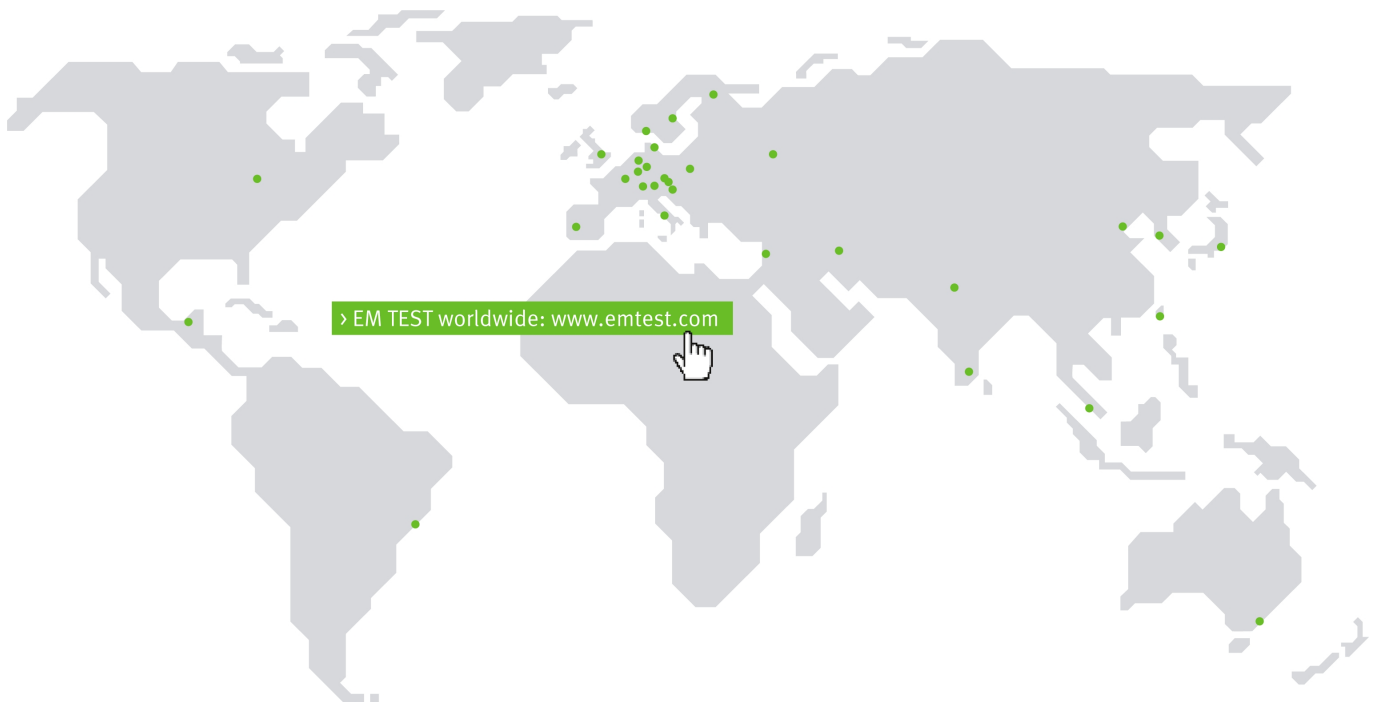
### SAFETY

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

### GENERAL DATA

Dimensions, weight	19"/6HU, approx. 18kg
Supply voltage	115/230V +10/-15%
Fuses	2 x 1AT

# 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.