

REPAIR FOR

Test protocol of Ignition coil

Application for
Renault

Part numbers
245108



Important Step

Before replacing or changing the Ignition coil, test protocol should be followed and occur in order to avoid extra time in the repair

Electrical characteristics of Ignition coil

Tools needed :
Multimeter & oscilloscope

Test condition	
V_{batt}	14V
U_{ster}	5V
T_c	2,00ms
F	50Hz
Load	1M Ω @ temp= 23 \pm °C

Coil - UF 703				
No:	Cylinder	Polarity of first half-wave U_{HV}	I_1 (A)	U_{HV} , (kV)
1	1	Negative	5,80-6,80	>23,00
	2	Négative	5,80-6,80	>23,00
	3	Negative	5,80-6,80	>23,00
	4	Negative	5,80-6,80	>23,00



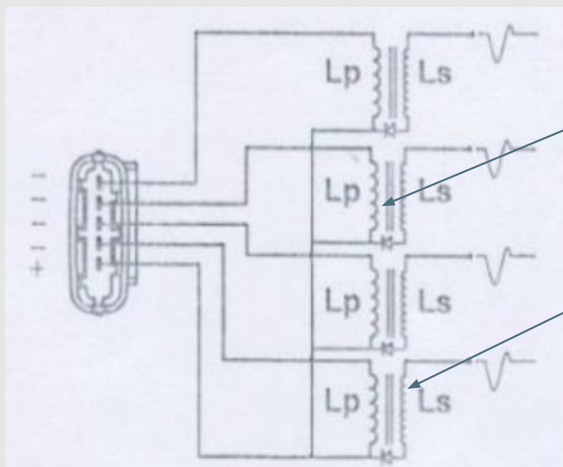
Discharge characteristics & static parameters of Ignition coil

Test condition	
V_{batt}	14V
U_{ster}	5V
T_c	2,00ms
F	50Hz
Load	1M Ω @ temp= 23 \pm C $^\circ$

Measurement condition	
F	1 kHz
U	1V,
Resistance value	20 $^\circ$ C

Coil UF 703						
No	Cylinder	Duration of discharge (MS)	Duration current (mA)	Spark energy (mJ)	R1 (m Ω)	L1 (mH)
1	1	1,3-1,7	>55	>30	607-692	2,43-2,97
	2	1,3-1,7	>55	>30	607-692	2,43-2,97
	3	1,3-1,7	>55	>30	607-692	2,43-2,97
	4	1,3-1,7	>55	>30	607-692	2,43-2,97

Electric circuit for Ignition coil



Primary coil

Secondary coil



Website
valeoservice.us/en-us



Technical Assistance
 1-888-718-2536

valeoservice.us