









2

Calculate expectation
sound level $L_{EXP,TEST}$ for
an individual test run

$$L_{EXP,TEST} = 10 \text{ LOG}(10^{0.1 L_{EXP,TR}} - 10^{0.1 (L_{EXP,PT})} - 10^{0.1 (L_{EXP,DYN} + L_{DYN,TEST})})$$

$L_{EXP,TEST}$ determined
→ Subroutine End

Parameter Table

				M1		
Model Part	Parameter	Symbol	Unit	ICE	PEV	PMR < 25
TYRE	Reference Vehicle Speed	v_{REF}	km/h	50	50	40
	Tyre Rolling Sound Energy Fraction of Annex 3 Cruise Test $L_{CRS,REP}$	x	%	90	98	50
	T/R Sound Slope ≤ 50 km/h	$q_{TR,LO}$	dB/log(v/v _{ref})	20	20	20
	T/R Sound Slope > 50 km/h	$q_{TR,HI}$	dB/log(v/v _{ref})	40	40	40
MECHANIC NO LOAD	P/T Sound Slope $\leq n_{BB,CRS,REP}$	$q_{PT,LO}$	dB/Log(n/n _{ref})	60	60	60
	P/T Sound Slope $> n_{BB,CRS,REP}$	$q_{PT,HI}$	dB/Log(n/n _{ref})	150	150	150
	Form Factor for the logarithm function of the meachanic sound model	$n_{SHIFT,PT}$	rpm	5000	5000	5000
DYNAMIC LOAD	Dynamic Sound Slope $\leq n_{BB,WOT,REP}$	$q_{DYN,LO}$	dB/Log(n/n _{ref})	60	60	60
	Dynamic Sound Slope $> n_{BB,WOT,REP}$	$q_{DYN,HI}$	dB/Log(n/n _{ref})	110	110	110
	Form Factor for the logarithm function of the dynamic sound model	$n_{SHIFT,DYN}$	rpm	5000	5000	5000
DYNAMIC VxA	Reference Performance	v_a_{REF}	m ² /s ³	28	28	28
	Dynamic v _x a Factor b	b	dB(A)	8	8	8
	Partial Load Form Factor a	a	---	0,111	0,111	0,111
GENERAL	Base Margin	m	dB(A)	2	2	2