

**FORMULA HYBRID NOISE TEST SPEEDS
by ENGINE MODEL**

Per Section IC3.2.4 of the Formula Hybrid Rules, the noise test speed "for a given engine will be the engine speed that corresponds to an average piston speed of 914.4 m/min (3,000 ft/min) for automotive or motorcycle engines, and 731.5 m/min (2,400 ft/min) for diesels and "industrial engines".... rounded to the nearest 500 rpm."

* "Engines with mechanical, closed loop speed control will be tested at their maximum (governed) speed."

Manufacturer	Model	Bore, mm	Stroke, mm	# Cyls	Displacement , ccs	Calculated Speed RPM	Test Speed RPM*
Motorcycle/ATV Engines							
Bajaj	Pulsar DTSi	67.0	62.4	1	218.2	7328	7500
Briggs & Stratton	World Formula 205	68.3	55.9	1	203.1	8179	8000
Briggs & Stratton	Animal 206	68.3	55.9	1	203.1	8179	8000
Derbi	Quasar GP1	72.0	60.0	1	242.3	7620	7500
Honda	CRF150R	66.0	43.7	1	148.3	10462	10500
Honda	CBR250, 1 cyl	76.0	55.0	1	247.5	8313	8500
Honda	CRF250R	76.8	53.8	1	247.2	8498	8500
Honda	CRF250X & CRF250R	78.0	52.2	1	247.4	8759	9000
Husqvana	TE250	76.0	55.0	1	247.5	8313	8500
Husqvana	TE250 & TXC 250	79.0	50.9	1	247.5	8982	9000
Kawasaki	EX250 Ninja	62.0	41.2	2	246.7	11097	11000
KTM	250 SX-F	76.0	54.8	1	246.6	8343	8500
KTM	Duke 200	72.0	49.0	1	197.9	9331	9500
KTM	?	78.0	52.3	1	247.9	8742	8500
Kymco	Xciting 250 AFI	72.7	60.0	1	247.0	7620	7500
Yamaha	X-Max250	69.0	66.8	1	247.7	6844	7000
Yamaha	YZ250F	77.0	53.6	1	247.6	8530	8500
Yamaha	WR250R	77.0	53.6	1	247.6	8530	8500
Yamaha	WR250X	77.0	53.6	1	247.6	8530	8500

"Industrial" Engines

Honda	GXH50	41.8	36.0	1	49.0	10160	10000
Lifan	6.5	68.0	54.0	1	194.5	6773	7000
Subaru	Robin EX-21	67.0	60.0	1	209.8	6096	6000

Diesel Engines

China (various)	178F	78.0	62.0	1	293.8	5899	6000
Kubota	OC60-E3	72.0	68.0	1	274.6	5379	5500