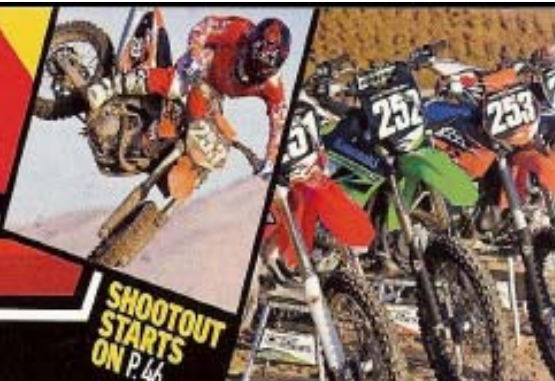


250 4-STROKE SHOOTOUT
THE LITTLE BORES GO HEAD-TO-HEAD



**SHOOTOUT
 STARTS
 ON P. 46**

DIRT RIDER

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SUPERCROSS

APRIL 2010

PIN IT!

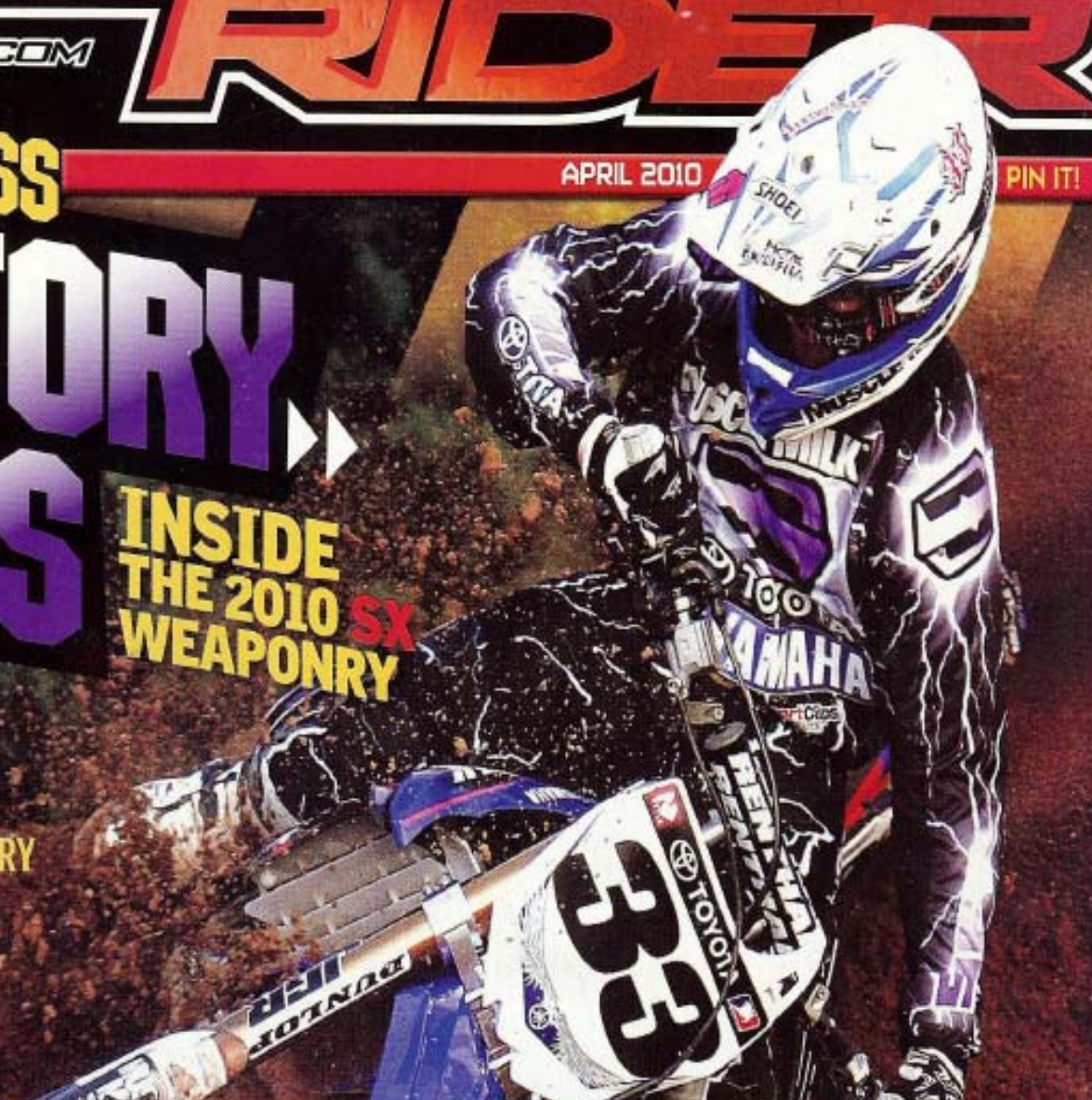
FACTORY BIKES

**INSIDE
 THE 2010 SX
 WEAPONRY**

**HOW IT'S
 MADE**

**INSIDE JGR'S FACTORY
 SUPERCROSS BIKE**

**KTM 250 SX
 TWO-STROKE
 LIFE SUPPORT**



Sound Test

Chris Real of DPS Technical, Inc. did our sound testing and did it to a very high level. We sampled the bikes in the most common way: A 20-inch stationary sound test to the AMA recommended RPM. Then we did the new two meter (2M) test which the bike is held wide open for a brief second to maximum RPM with the sound meter two meters away. We also took a reading during the bike's radar runs to show some real world figures so you can see the difference in practical applications and compare them to test numbers. For much more information and help on sound issues, go to www.chemhelp.com.

Bike	Start Line Standing Moto Start (100' down course @ 50') dBA (F) Max	Roll On Full Torque acceleration test (3rd gear) (100' down course @ 50') dBA (F) Max	Top Speed Test Pass by Wide Open (5-6 gear) 250' down course @ 50' dBA (F) Max	SAE J 1287 (AMA 20" Test) 5,500 RPM / 250cc @ 20" dBA (S)	FIM "Rev Test" 2- Meter Max RPM @ 2m / 78 3/4" dBA (F) Max
YAM	93.5	95.0	92.7	97.1	114.8
Honda	98.4	98.9	96.6	99.7	113.1
KTM	88.8	89.6	87.4	97.6	111.8
KAW	90.1	97.5	96.6	96.6	120
Husky	94.9	93.7	92.5	97.2	112.9

Date: ___/___/___

DPS Technical, Inc.

Instrument Information

Environmental: Wind:

Temp:

Bike	Exhaust System	Roll On 3rd Gear Torque 100' Down Course	SAE J1287 20" Test	FIM 2M "Rev Test"	
Starting Calibration	All Type 1 instruments	Within Specification 7 check points			
Suzuki DRZ 450	Stock	98	98.1	112.2	Motocross Bike
Yamaha YZ 250 F	2 Bros	89.1	97.7	109.4	
KTM 250	Enduro Engineering	92.8	94.3	102.9	checked ok
Honda CRF 150 F	Stock	77.8	81	88.7	
Yamaha YZ 125	Stock	90.9	92.2	106.5	
Yamaha YZ 250 F	Stock	93.6	95.1	108.6	
KTM 250 SX	Pro Circuit	92	91.2	101.3	
Honda CRF 150 R	Stock	93.2	96.7	107.1	
Yamaha YZ 250	FMF "gnarly"	90.3	93.8	101.8	
Yamaha YZ 450 F	Jardine	98.6	101.3	111.7	
Honda CRF 250 R	HRC	96.9	97.7	111.6	
KTM 250 SX	FMF gnarly Q stealth	89.6	89.7	102.1	checked ok
Yamaha YZ 250	Stock	92.6	92.4	104.6	
Yamaha YZ 125	DEP Rev	92	92.1	103.9	
Yamaha YZ 450 F	Stock	96.6	97.8	109.9	
Mid Day Confirming Calibration	All Type 1 instruments	No change 7 check points			
Yamaha YZ 250	FMF Fatty	94	95.8	105.1	
Honda CRF 150 F	FMF Q	81.2	87.7	92	
Yamaha YZ 125	DEP Torque	96.8	93.3	102.9	
Honda CRF 150 R	Pro Circuit T4 S	89.8	96.8	101.2	
Yamaha YZ 250	Pro Circuit Pipe & Muffler	92.6	94.6	106	
KTM 450 XCW	HMF	91	93.6	106.2	
Honda CRF 250 R	Stock	97.2	97.2	111.1	
Honda 450 X	FMF Q4 Mega	89.6	95.8	101.2	
KTM 250 SX	FMF Gnarly W Q	91.8	94.6	99.4	checked ok
KTM 250 SX	FMF Turbine Core 2	92.8	95.2	99.2	checked ok
Honda CRF 450 R	Stock	99.4	99.3	113.4	
KTM 250 SX	FMF Fatty Turbine Core	91.7	94.4	100	checked ok
Suzuki RMX 450	Akravdic	92	95.7	107.3	

2 stroke

2 stroke

2 stroke

Date: ___/___/___
 Environmental: Wind:
 Temp:

Honda CRF 250 R	Pro Circuit T4 GP	96.8	96.5	105.9	
Yamaha 450	Dr. D Full	98.7	97.5	112	
Honda 450 X	Stock Small Tip	82.6	96.3	97	
KTM 250 SX	Stock	92.9	92.8	102.6	checked ok
Honda CRF 450 R	Vance&Hines	96.2	97.7	113.5	
Honda CRF 250 R	Akravdic Full	98.3	97.6	111.6	
Yamaha YZ 450	Devil Racing Full	99	98.8	109.9	
Honda CRF 450 R	Pro Circuit T1 4R Full System	97.2	98.7	113.9	
Suzuki RMX 450	Stock	88.2	91.5	100.6	enduro bike
KTM 450 XCW	Dr. D Muffler	94.9	95.3	111.7	
Honda CRF 450R	Dep Full	97.5	95.6	112.7	
Honda CRF 450 X	Yosh Comp	95.7	94.4	106.4	
Honda CRF 250 R	Leo Vince Full	96.6	94.2	108.5	
KTM 450 XCW	Devil Full System	91.3	89.9	105.7	
Honda CRF 250 R	FMF Mega 4.1	97.4	98.4	110.1	
Suzuki RMZ 450	Carbon Yosh Full	97.4	98.9	113.5	Motocross Bike
Honda CRF 250 R	Power Bomb 4.1	98.1	99.6	109.6	
Honda CRF 450 X	Jardine RT 99 Full	98	97.7	107.5	
Honda CRF 250 R 2009	Stock 2009 Twin Exhaust	96.7	96.1	110	Instrument Crash
KTM 450 XCW	Stock	94	93.1	108.7	

NOTES:

Ending Calibration	All Type 1 instruments	No change 7 check points	125 Hz - 2000 Hz 94 db, 114 dB, 110 dB	Confirming Calibration	Pre / Post = ANSI Type 1
All testing done by Chris Real		Air temp 65 - 73 F Wind variable, less than 5 MPH. Max.		All official data & calibrations accurate.	All data points confirmed 6+ times
1 backup instrument damaged with 1 bike to go.		Wind blew over. Destroyed \$1000 meter			
All bikes warm / hot		Expert riders		Pass by measurements at 50'	
Uniform warm up					
More info needed? Into tech videos? Www.chemhelp.com www.chemhelp.com www.motorcyclenoise.com www.dirt rider.com	Subscribe to DirtRider!			Other data as specified in	
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