TEAM NUN	MBER:	2010 FRC Inspe	ection Checklist	Rev C – Marc	ch 8, 2010
INSPECTOR:		INITIALS + DATE (after passing):			
from the Verify T	s Encryption – Verify team ha	e must be 2010_V20 <r86></r86>	51 \		" report
	Tag Robots – If you are at a Ba	g and Tag event, or the robot arri			that the Bag
Weight		is a log sheet at Pit Admin ("Mis	sc. Box) <r26, r27,<="" th=""><th>, Section 4.8></th><th></th></r26,>	, Section 4.8>	
vveight		cluding bumpers and battery) <r< td=""><td>10 R13></td><td>=</td><td> pound</td></r<>	10 R13>	=	pound
0		ers must be ≤ 20 pounds) $\leq R07.6$			pound
0		ers must be ≤ 20 pounds) $\leq R07$.			pound
		ithin a 28"x38"x60" rectangular v			r
	rd Bumpers	<u> </u>			
0		lete protection of the FRAME PE	ERIMETER <r07.a< td=""><td>></td><td></td></r07.a<>	>	
0	All segments must be ≥ 6 "				
0		erior corners of the FRAME PER			
0		thick x 5" tall plywood backing as weight reduction (mounting holes were for the proodles < P0.7 E>			
0		ets of both blue and red bumpers ((with colors similar t	to the FIRST logo)	or be able
O		or between red and blue over the ϵ			or be able
0		4 " tall x $\frac{3}{4}$ " stroke, on the bump			g spacing,
0		colors other than team #, red/blue	e fabric and functions	al stitching <r07.i< td=""><td>F, R15></td></r07.i<>	F, R15>
0	Must be removable for inspe				
0	Must be securely mounted w				
0		must reside entirely in region bet			
0		ctural robot component supportin			.07.M>
0		pers are attached cannot intention	, ,		
<= \$350	00 of additional components, no	oM (must use FIRST template), in single component > \$400 < R21,	R22, R23, R89>	-	•
		TER - No robot components can	reside outside the Fl	RAME PERIMET	ER except
* 1	per rule <g30> and during Fina on of Balls Inside FRAME PE</g30>				
		nnot roll more than 3" inside the	FRAME PERIMETI	FR ~R10 Δ~	
0	-	es designed to deflect balls shall n			19 R>
0	-	at are trapped under the robot	-		17.15
			-	•	
Mechanical					
	rp Edges <r04, r05=""></r04,>				D.02
		xposed lasers, noxious or toxic ga			
No Risk	of Damage to Other Robots	carefully consider safety of any specific e.g. spearing, entangling, upendi	ing or adhering < R05	5, R06, R17>	'>
		al cleats on wheels, frame should			1 705
		struction and able to be dry fired war rebots' electronics and sensors			
		ner robots' electronics and sensors of name and primary sponsor nam		and be Gr. \KI	. 1/
	tame Bisping the team s sens.	or name and primary sponsor name	10,1050 1111		
Electrical Pottorio	Out	(20071) E G	NID10 10 ' '-	d an matrix (D.40)	D 42 A -
		attery (2007 or later) or EnerSys I		u on robot. <k40, l<="" td=""><td>K42.A></td></k40,>	K42.A>
	-	control system must be securely well-covered with insulation <r< td=""><td></td><td></td><td></td></r<>			
		P connector (with proper polarity)		ttery connection <	:R44>
	om, mo noi m	- 11vior (with proper pointity)	,, 55 4554 101 041	comiconon <	

TEAM NUMBER:		2010 FRC Inspection Chec	eklist Rev C – March 8, 2010
Main Breaker Acc	essibility – The 120A mai	n breaker must be readily accessible <r< td=""><td>.44.G></td></r<>	.44.G>
Allowable PD & B	reakers - Only 1 PD can b	be used for power distribution from the	120A main breaker and only 20, 30
and 40 Amp Snap-A	action breakers may be ins	talled in the PD <r42, r46=""></r42,>	
Only Copper Wire	- aluminum or other non-	copper wire may not be used <r42></r42>	
Robot Radio – The	wireless adapter (WET61)	ON and WGA600N are both legal) on the	ne robot must be powered via the
dedicated connector	on the PD <r45.b></r45.b>	_	_
24V from PD – onl	y the cRIO and one Soleno	oid Breakout can be attached to the PD's	s 24V supply <r45></r45>
Controller – 1 cRI	must be used on the robo	and it must be the only device connec	ted to the 37-pin Digital Sidecar ports
		og Breakout(s) used on the robot <r56></r56>	
Wire Size - Obey th	e wiring size conventions.		
o All wire	from battery to PD have m	in #6 AWG wire <r44.f></r44.f>	
o 40 amp b	reakers have min #12 AW	G wire <r47.a></r47.a>	
o 30 amp b	reakers have min #14 AW	G wire <r47.b></r47.b>	
o 20 amp b	reakers have min #18 AW	G wire <r47.c></r47.c>	
Wire Colors - Mus	be color coded - red/white	e/brown for + supply wires and black/bl	lue for supply return wires <r48></r48>
1 Wire per WAGC	- Only 1 wire may be inse	erted in each WAGO, splices may be use	ed to distribute power to multiple
		ice are subjected to the Wire Size rules	
		al Sidecar's PWM Outputs. An unlimit	
		z-in and max speed of 100 rpm at 6VD0	
		Denso Right, 2 Fisher Price, and 2 Mabu	
		moved from FP motors, only mounting	and shaft connection mods are
	removal or structural modi		
		ors are allowed but only for holding and	l "friction" (not to generate motion
	e driven by a Victor, Jagua		
		gnet may be attached to each Spike, Vic	tor or Jaguar <r49></r49>
	-	vered by Victors or Jaguars <r55.a></r55.a>	D: ::10:1
		, Victor or Jag with signals directly from	
		rcuit outputs, Jags may be controlled via	
		ectronics - Cannot directly control Vic	
		CAN module) that bridge cRIO Ethernown power from a 20A breaker on the PD	
		nay be driven by the Solenoid Breakout	
		he PD's 24 volt supply (if 2 breakouts a	
		I from battery (>100k Ohm between eitl	
		y contact the cRIO chassis can be an i	
		on 86 or newer and cannot be connected	
		connected to ports other than the coast/b	
ouguns with I vvi	cumot nave anything t	somected to ports other than the coust of	rane port (100.11, 1103)
Pneumatic System (n	a for robots that do	not use pneumatics)	
		ssor (or equivalent) may be used (on or	off robot). <r72.a></r72.a>
		nmend replacing Spike's 20A fuse with	
		h must be wired directly to a Digital Sic	
Compressor Relief	Valve – 125 PSI relief val	ve must be directly attached to compres	ssor <r77></r77>
Vent Valve – Must	include an easily-accessible	le manual vent valve <r79></r79>	
		bot control system must be used to cont	
regulator and Nasor		ocated off-robot as well. <r75, r76.d,<="" td=""><td></td></r75,>	
		pneumatic storage tanks may be used <	<r72.a></r72.a>
Tubing - No extran		ID other than 0.16" <r72.e></r72.e>	
		nd working side of the circuit and be rea	•
_	-	must be rated for at least 125PSI. If co	-
		vorking pressure side to vent at the lower	
		or can be used to convert the compresso	
		of 0.32, controlled by Spike or NI 9472	
		at be rated for at least 125PSI, <= 24" st	
		sed, must be rated for at least 125PSI <	
No Unsafe Afterati	ous - Pneumatic parts cani	not be altered such that their 125PSI rati	ing may be compromised <r 3.b=""></r>

TEAM NUM	MBER:	2010 FRC Inspection Checklist	Rev C – March 8, 2010				
Power On C	Check (Driver Station must be	e tethered to the Robot)					
		m the KoP can be used as the primary controller	in the driver station <r84></r84>				
		O devices can only be connected to the Classmate					
		No other wireless comm. without FIRST permiss					
		the OPERATOR CONSOLE, robot radio should l					
		pressure, power up robot, compressor should kicl					
		cally when pressure is reached <r78></r78>					
0		A, R75> and Working Pressure <= 60 psi <r73.a< th=""><td>, R76, R01.B></td></r73.a<>	, R76, R01.B>				
0	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
0		pressure switch to force the compressor "on", cor					
		remove the short if pressure exceeds 135 psi) <r'< th=""><td></td></r'<>					
Robot S		nt from the KoP must be visible from 3' in front of					
		ars. Confirm that La and Lb are shorted and open					
	Voltage Monitoring – The DS must						
		PER can only briefly reach up to the BUMPE	R PERIMETER when				
		oot will have trouble complying with the 2 seco					
		- must fit within a 7' diameter vertical cylinder v					
Power C	Off – Remove power from the robot,	confirm all LEDs are off, actuate pneumatic vent	valve (if applicable) and				
confirm	that all pressure is vented and gauges	s read 0 pressure					
Removing the Robot from the Field – Confirm removal when unpowered (eg hanging robots) <r20></r20>							
Team Comp	oliance Statement						
		elow, that our team's robot was built after the 2010 Kickoff or	n January 9, 2010 and in accordance				
	FRC rules, including all Fabrication Schedule	e rules. We have conducted our own inspection and determin					
Team Captain:_		Team Mentor:					