



# TECH UPDATES

Updated: 07.13.2010

Tech/rule updates and clarifications only apply to the rule numbers as referenced. Please make certain you are updating the correct rule.

→ = Indicates a new update in this issue.

**ADD** = Add update to current rule as referenced.

**CHANGE** = Replace [REPLACE] text as noted with [WITH] updated text.

**DELETE** = Delete part(s) of rule as noted.

The month following the update instruction is the month in which the update was last modified.

**ADD** December 2009

### TM3

[ADD PARAGRAPH 2] A WKA sanctioned event is any karting event that is conducted under the rules published in the WKA Technical Manual, Tech Updates and supplemental event rules, is specifically approved by WKA in writing, and uses the WKA pit pass program or other pit pass and insurance program approved by WKA.

**CHANGE** February 2010

### TM 9 103.2.1 COMPETITION AGE

[REPLACE] 103.2.1 COMPETITION AGE: A driver's actual age as of December 20, 2008 shall establish his/her "competition age" for the 2009 calendar year. EXAMPLE: A driver is competing in a class that has a maximum age of 15 years. If the driver is 15 on December 20, 2008, the driver may compete in that class for the entire 2009 calendar year, no matter how early in the year the sixteenth birthday occurs. [WITH] 103.2.1 COMPETITION AGE: A driver's actual age as of December 20, 2009 shall establish his/her "competition age" for the 2010 calendar year. EXAMPLE: A driver is competing in a class that has a maximum age of 15 years. If the driver is 15 on December 20, 2009, the driver may compete in that class for the entire 2010 calendar year, no matter how early in the year the sixteenth birthday occurs.

**ADD** December 2009

### TM 14 110.4 VIDEO AND PHOTOGRAPHS IN PROTESTS AND APPEALS

[ADD] 110.4 VIDEO AND PHOTOGRAPHS IN PROTESTS AND APPEALS: Video and photographs will not be considered in evidence in protest and appeals.

**ADD** December 2009

### TM 15 115.1 HEAD GEAR

[ADD] 115.1.1 HELMET CAMERAS: Helmet cameras are allowed as long as the attachment method does not render the helmet uncertifiable. Tape and Velcro are allowed. Holes for fasteners may not be drilled in the Snell or SFI test area.

**ADD** December 2009

### TM 15 115.4 DRIVER CLOTHING

[INSERT] Driving shoes and racing gloves meeting SFI 3.2 A1 Specifications will be required effective

December 20, 2010.

[AFTER] For all champ kart drivers in all series, full fire resistant driving suits with an SFI rating of 3.2 A1 or better are mandatory.

**CHANGE** December 2009

### TM 15 115.3 HELMET SUPPORTS

[REPLACE] The EVS Evolution Race Collar, Leatt-Brace Moto Kart and Moto GPX and Team Valhalla 360 Plus Device are approved helmet supports. [WITH] The EVS Evolution Race Collar, Leatt-Brace Moto Kart and Moto GPX, Safety Solutions R3 and D-cel, and Team Valhalla 360 Plus Device are approved as helmet supports. The Hans Sport Series and Safety Solutions Hybrid are approved as helmet supports in champ karts only.

→ **ADD** July 2010

### TM 15 115.4 DRIVER CLOTHING

[ADD] Note: All fire resistant driving suits manufactured by Impact Racing through 2008 are no longer approved for use by champ kart drivers in all series effective December 20, 2010.

**CHANGE** May 2010

### TM 17 254.2.2 HOLLOW SHAFT

[REPLACE] Steering hub (one piece) will be secured through the axis to the steering shaft with minimum 5/16" bolt through the steering shaft/hub parallel to the axis point.

[WITH] Steering hub (one piece) will be secured through the axis to the steering shaft with minimum 6mm (1/4") bolt through the steering shaft/hub parallel to the axis point.

**CHANGE** May 2010

### TM 18 209.3.3 MAXIMUM WIDTH

[REPLACE] CIK style rear wheel protection must not exceed maximum CIK specification: 1,340mm (55.8") [WITH] CIK style rear wheel protection maximum width is 55.1" (140cm) and minimum width is 52.8" (1,340mm).

**CHANGE** March 2010

### TM19 214.1 CADET SPORTSMAN FINAL 1 & 2:

### TM19 214.2 YAMAHA SPORTSMAN LITE AND HEAVY:

### TM19 214.3 KOMET PISTON PORT SPORTSMAN:

[REPLACE] SPEC TIRE: MG-HZ Red 10x4.5-5 front and rear. [WITH] SPEC TIRE: MG-HZ Red 10x4.6-5 front and rear.

**CHANGE** May 2010

### TM 21 214.17 TAG

[REPLACE] ENGINES & MINIMUM WEIGHTS: Vortex Rok TT 380 [WITH] ENGINES & MINIMUM WEIGHTS: Vortex Rok TT 370 [REPLACE] EXHAUST PIPE/SILENCER: On the Parilla Leopard engine, the minimum combined length of the header and connector pipe must be at least 15 3/4" [WITH] EXHAUST PIPE/SILENCER: On the Parilla Leopard and Rok TT engines, the minimum combined length of the header and connector pipe must be at least 15 3/4".

**CHANGE** May 2010

### TM 21 214.18 TAG HEAVY

[REPLACE] ENGINES & MINIMUM WEIGHTS: Vortex Rok TT 400 [WITH] ENGINES & MINIMUM WEIGHTS: Vortex Rok TT 390 [REPLACE] On the Parilla Leopard engine, the minimum combined length of the header and connector pipe must be at least 15 3/4" [WITH] On the Parilla Leopard and Rok TT engines, the minimum combined length of the header and connector pipe must be at least 15 3/4".

**CHANGE** April 2010

### TM 21 - 214.18 TAG HEAVY

### TM 21 - 214.19 TAG MASTERS

[REPLACE] ENGINES & MINIMUM WEIGHTS: BM Jaguar – 360 lbs, Cheetah SQ 125 – 360 lbs, Comer K365 – 390 lbs., Easykart – 360 lbs., Morori Seven – 375 lbs, Parilla Leopard – 375 lbs., Rotax FR 125 – 375 lbs., Sonik TX 125 (125cc) – 390 lbs., Sonik VX 125 (118 cc) – 375 lbs., Vortex Rok ('03 & '04) 360 lbs., Vortex Rok TT – 390, PRD Fire Ball (2005 & 2008) 360 lbs. [WITH] ENGINES & MINIMUM WEIGHTS: BM Jaguar – 370 lbs, Cheetah SQ 125 – 370 lbs, Comer K365 – 400 lbs., Easykart – 370 lbs., Morori Seven – 385 lbs, Parilla Leopard – 385 lbs., Rotax FR 125 – 385 lbs., Sonik TX 125 (125cc) – 400 lbs., Sonik VX 125 (118 cc) – 385 lbs., Vortex Rok ('03 & '04) 370 lbs., Vortex Rok TT – 400, PRD Fire Ball (2005 & 2008) 370 lbs.

**CHANGE** May 2010

### TM 21 214.22 YAMAHA CADET

SPORTSMAN (LOCAL OPTION) [REPLACE] DRIVER REQ: Age 8 through 12. [WITH] DRIVER REQ: Age 7 through 12.

**CHANGE** April 2010

### TM 25 252.2.2 MAX WHEEL WIDTHS

[REPLACE] Maximum overall wheel width is limited based on tire size. [WITH] Maximum overall wheel width is limited based on tire size in the Sportsman and Junior classes.

**CHANGE** March 2010

### TM27 263.12 BRIGGS SUPER STOCK MEDIUM & HEAVY

[REPLACE entire rule] 263.12 BRIGGS SUPER STOCK MEDIUM & HEAVY [WITH] 263.12 BRIGGS ANIMAL MODIFIED MEDIUM & HEAVY DRIVER REQ: Age 15 and older. ENGINES: Briggs & Stratton Modified Animal Engine FUEL: Methanol. MINIMUM WEIGHTS: 350 lbs. MEDIUM, 375 lbs. HEAVY SPEC TIRES: Firestone YKD - Front and rear 5.00 x 6" or 6.50 x 6" OTHER: Allowed Animal engine modifications include a Tillotson single pumper carburetor (maximum venturi of 0.790" and bore of 1.005") and any steel or aluminum intake manifold. RLV B91MO silencer is mandatory. All other specifications and dimensions are per TM Section 704.

**ADD** March 2010  
**TM27 263.13 INTERNATIONAL SR PURE STOCK 1 & 2 (local option)**  
**[ADD]** 263.13 INTERNATIONAL SR PURE STOCK 1 & 2 (local option)  
 DRIVER REQ: Age 15 & older  
 ENGINE: Int'l 4-cycle (Clone) or 6.5 GX200 Honda  
 FUEL: Gasoline only  
 MIN WEIGHT: 375 lbs.  
 SPEC TIRES: Open w/ 5" rims or Firestone YKD - F&R, 5.00x6 OR 6.50x6  
 OTHER: standard 40" min wheelbase, CIK or Gold Cup bodywork rules.

**ADD** March 2010  
**TM 27 263.14 INTERNATIONAL JR PURE STOCK 1 & 2 (local option)**  
**[ADD]** 263.14 INTERNATIONAL JR PURE STOCK 1 & 2 (local option)  
 DRIVER REQ: Age 12 thru 15.  
 ENGINE: Int'l 4-cycle (Clone) or 6.5 GX200 Honda  
 FUEL: Gasoline only.  
 MIN WEIGHT: 310 lbs.  
 SPEC TIRES: Open 4.50-5 or 4.60-5 F&R (6.5") or 6.00-5 (7.75") rear only OR Firestone YKD 5.00-6 (6.5") F&R or 6.50-6 (8.75") R only.  
 OTHER: standard 40" min wheelbase, CIK or Gold Cup bodywork rules.

**ADD** March 2010  
**TM 27 263.15 LO206 JUNIOR (local option)**  
**[ADD]** 263.15 LO206 JUNIOR (local option)  
 DRIVER REQ: Age 12 thru 15  
 ENGINE: Animal LO206 sealed engine w/ gold 0.505" restrictor  
 FUEL: Gasoline only  
 MIN WEIGHT: 325 lbs.  
 SPEC TIRES: Dunlop DDM - 4.50x5 (6.5") F, 6.00x5 (7.75") rear  
 OTHER: standard 40" min wheelbase, CIK or Gold Cup bodywork rules. Drum style clutch only.

**ADD** March 2010  
**TM 27 263.16 LO206 MEDIUM & HEAVY (local option)**  
**[ADD]** 263.16 LO206 MEDIUM & HEAVY (local option)  
 DRIVER REQ: Age 15 & older  
 ENGINE: Animal LO206 sealed engine  
 FUEL: Gasoline only  
 MIN WEIGHTS: 340 lbs. MEDIUM, 385 lbs. HEAVY  
 SPEC TIRES: Firestone YKD - 5.00x6 F&R OR 5.00x6 F & 6.50x6 R  
 OTHER: standard 40" min wheelbase, CIK or Gold Cup bodywork rules. Drum style clutch only.

→ **ADD** July 2010  
**TM 31 305.1.1 BRAKE LINKAGE BACK UP**  
**TM 37 355.1.1 BRAKE LINKAGE BACK UP**  
**[ADD]** There must be a second link between the brake pedal and the master cylinder that will function in the event that the primary linkage fails. The secondary linkage must not interfere with the operation of the primary linkage or bias bar if so equipped. The secondary linkage may be a second rod or a cable. If a rod is used, it must conform to the specifications of the primary rod. If a cable is used, it must be at least 1/16" in diameter and clamped

with a two (2) screw flat plate (CIK Style) clamp or a swag style crimp fitting.

**CHANGE** April 2010  
**TM 33 312 100CC PIPE MEDIUM & HEAVY**  
**[REPLACE]** MINIMUM WEIGHTS-MEDIUM: Yamaha - 375 lbs. and Piston Port - 400 lbs.  
 MINIMUM WEIGHTS-HEAVY: Yamaha - 410 lbs. and Piston Port - 435 lbs.  
**[WITH]** MINIMUM WEIGHTS-MEDIUM: Yamaha - 375 lbs., Piston Port - 400 lbs., and Comer P51 - 410 lbs.  
 MINIMUM WEIGHTS-HEAVY: Yamaha - 410 lbs., Piston Port - 435 lbs., and Comer P51 - 445 lbs.

**ADD** December 2009  
**TM 33 312.1 100CC CONTROLLED**  
**[ADD]** 312.1 100CC CONTROLLED  
 DRIVER REQ: Age 16 and older. Road Race Class 2 License.  
 ENGINES: Yamaha, Piston Port, 100cc Controlled, ICA Reed  
 EXHAUST: Any WKA approved pipe (except 100cc Controlled or ICA Reed with IR1 pipe at a minimum of 9" or IR2 pipe at a minimum of 8.75" from piston to end of connector pipe. See Figure 554.6 for IR1 & IR2 Specs.) All engines - 1.75" header.  
 FUEL: Gas and oil only.  
 MINIMUM WEIGHTS: Yamaha and Piston Port engines 360 lbs. Controlled or ICA engines 390 lbs. Controlled or ICA Reed engines running RLV IR1 or IR2 pipe 370 lbs.  
 OTHER: ICA Reed (See Section 607, 608 and Figures 608.2, 608.3a and b for approved engines and specifications). WKA approved 1 3/4" header and pipe only; head volume 9cc's and Tillotson HL360A carburetor (See Figure 554.6 for IR1 & IR2 Specs. See Section 607.3 for carb specs.)

**CHANGE** February 2010  
**TM 33 312.6 PISTON PORT CAN LITE, MEDIUM & HEAVY**  
**[REPLACE]** EXHAUST: (See Section 554.2)  
**[WITH]** (See Section 554.3 and Figure 554.3.)

**CHANGE** December 2009  
**TM 33 - 312.3, 312.5, 312.6, 312.7, 312.8, 312.9, 312.10, 312.11**  
**TM 39 - 362.7, 362.8**  
**[REPLACE]** Spec Fuel.  
**[WITH]** Gas and oil only.

**CHANGE** February 2010  
**TM 34 312.8 YAMAHA SPORTSMAN MEDIUM AND HEAVY**  
**[REPLACE]** EXHAUST: (See Section 554.3)  
**[WITH]** EXHAUST: (See Section 554.2 and Figure 554.2.)

**CHANGE** April 2010  
**TM 39 WKA SPRINT 1 & 2**  
**[REPLACE]** MINIMUM WEIGHTS: Yamaha, ARC & PRD - 360 lbs., Piston Port 3- 85 lbs.  
**[WITH]** MINIMUM WEIGHTS: Yamaha, ARC & PRD - 360 lbs., Piston Port - 385 lbs., and Comer P51 - 395 lbs.

**CHANGE** May 2010  
**TM 41 362.12 STOCK HONDA 1 & 2**  
**[REPLACE]** PIPE: Honda RLV 6800 b: RCE T-3 c: Hi-Tech 125.  
**[WITH]** PIPE: RLV R2, RLV R4, RCE T-3, Hi-Tech 125.

**ADD** February 2010  
**TM 47 408.10 2-CYCLE WEDGE BODY**  
**[ADD]** 408.10 2-CYCLE WEDGE BODY: This rule only pertains to 2-Cycle Speedway karts that choose to not run the conventional speedway side panels as described in rule 408.5. All other rules still apply. The body will consist of a framework, a top panel, and 2 side panels. The body must be measured in race ready configuration. The body will allow for at least 1" clearance to the seat in all areas. No sharp edges or corners may be present on the body  
**408.10.1 FRAMEWORK:** The framework must be of adequate construction to safely hold the other body components for expected race conditions.  
**408.10.2 TOP AND SIDE PANELS:** The top and side panels must be constructed of non-metallic, fracture resistant material. Clear plastic that is likely to crack is not acceptable. Most other race plastics, corrugated plastic signboard and fiberglass are acceptable. The side panels must provide full wheel openings. They must not be more than 26" above the ground at any point. They may not extend over a line projecting from approximately the front axle centerline to a point no more than 26" above the ground, approximately vertical of the rear axle centerline. They may not overhang any wheel by more than 2" and not exceed 50 "in total width.

**CHANGE** May 2010  
**TM 48 413.16 UNLIMITED 2-CYCLE**  
**[REPLACE]** FUEL: Gas & oil only  
**[WITH]** FUEL: Open

**ADD** March 2010  
**TM48 413.16 UNLIMITED 2-CYCLE**  
**[ADD]** 413.16 UNLIMITED 2-CYCLE  
 DRIVER REQ: Age 15 & up  
 ENGINE & MIN WEIGHT: 105cc - 300 lbs., 120cc - 340 lbs., 140cc - 380 lbs., 155cc - 420 lbs.  
 FUEL: Gas & oil only.  
 TIRES: TBA  
 OTHER: No turbo chargers, super chargers, or nitrous oxide.

**ADD** March 2010  
**TM 48 413.17 INT'L 4-CYCLE PURE STOCK (local option)**  
**[ADD]** 413.17 INT'L 4-CYCLE PURE STOCK (local option)  
 DRIVER REQ: Age 15 and older.  
 ENGINE: Stock Int'l 4-cycle (Clone).  
 FUEL: Gas only.  
 MINIMUM WEIGHT: 375 lbs.  
 TIRES: Maxxis EL

**ADD** March 2010  
**TM48 413.18 INT'L 4-CYCLE BUILDER PREPARED (local option)**  
**[ADD]** 413.18 INT'L 4-CYCLE BUILDER PREPARED (local option)  
 DRIVER REQ: Age 15 and older  
 ENGINE: Int'l 4-cycle (Clone) w/ some modifications  
 FUEL: Gas only  
 MINIMUM WEIGHT: 375 lbs.

TIRES: Maxxis EL

**ADD** March 2010

**TM48 413.19 LO206 1 & 2 (local option)**  
[ADD] 413.19 LO206 1 & 2 (local option)  
DRIVER REQ: Age 15 and older  
ENGINE: Briggs LO206 sealed engine  
FUEL: Gas only  
MINIMUM WEIGHT: 360 lbs.  
TIRES: Open

**CHANGE** April 2010

**TM 54 463.1 BRIGGS SPORTSMAN 1 LITE & HEAVY**  
**TM 54 463.5 BRIGGS SPORTSMAN 1 CHAMP LITE & HEAVY**  
[REPLACE] ENGINE: Briggs & Stratton Stock Animal Engine with a restrictor plate top hole 0.235" and a bottom hole of 0.275" (purple).  
[WITH] ENGINE: Briggs & Stratton Stock Animal Engine with a three-hole plate with 0.225" holes (purple).

**CHANGE** April 2010

**TM 54 - 463 SPEEDWAY PAVEMENT SERIES CLASSES**  
463.4 BRIGGS LITE, MEDIUM, & HEAVY  
463.5 BRIGGS SPORTSMAN 1 CHAMP LITE & HEAVY  
463.6 BRIGGS SPORTSMAN 2 CHAMP LITE & HEAVY  
463.7 BRIGGS JUNIOR CHAMP LITE & HEAVY  
463.8 BRIGGS CHAMP LITE & HEAVY  
463.9 BRIGGS JUNIOR RAPTOR CHAMP FINAL 1 & 2  
463.10 BRIGGS LOCAL OPTION 206 FINAL 1 & 2  
463.11 BRIGGS MASTERS CHAMP FINAL 1 & 2  
[REPLACE] SPEC TIRE: Vega MBS  
[WITH] SPEC TIRE: Vega MBS, L=4.50x6, R = 8.00x6 (standard)

**CHANGE** April 2010

**TM 54 - 463.12 KID CHAMP KARTS (EXHIBITION ONLY)**  
[REPLACE] SPEC TIRE: Vega MBS - 7:10 x 6" Right Side, 500 x 6" Left Side. Maximum tire circumference 34 1/4" New or used. Event tire prep rules apply.  
[WITH] SPEC TIRE: L = Vega MBS 4.60x6. R = Vega MAS 7.10x6. Maximum tire circumference 34 1/4". New or used." Event tire prep rules apply.

**CHANGE** May 2010

**TM 69 502.4.1 DIGATRON METER TEST**  
[REPLACE] Set meter to minus -75 using cyclohexane.  
[WITH] Set meter to minus -45 using cyclohexane.

**CHANGE** May 2010

**TM 69 502.4.2 DIGATRON METER TEST**  
[REPLACE] Set meter to minus -75.  
[WITH] Set meter to minus -45.

**ADD** December 2009

**TM 70 502.8 TECH AREA**  
[ADD] 502.8.1 WKA MEMBERS ONLY IN TECH AREA: All persons present in the engine tech area must be WKA members.  
502.8.2 USE OF CELL PHONES AND CAMERAS: Use of cell phones and cameras is not allowed in the tech area by anyone other than race officials.

**DELETE** December 2009

**TM 71 551.1 AIR BOX SPECIFICATIONS:**  
[DELETE] In Stars of Karting competition, drain holes and pre-filter covers are not legal for CIK Homologated (CIK09) air boxes.

**CHANGE** December 2009

**TM 71 551.3.1 TAG ENGINES**  
[REPLACE] (or FIK)  
[WITH] (or FMK)

**ADD** February 2010

**TM 72 554.3 RLV-SSX/SSX-V MUFFLER**  
[ADD] Heat shields may be used to deflect the exhaust flow but must be located no closer than 3" from the muffler and may not be attached directly to the muffler or engine in any way.

**DELETE** December 2009

**TM 73 FIGURE 554.8 RLV IR1 & IR2 Spec Pipe**  
[DELETE] Only the IR2 will be legal for the 2010 competition year.

**CHANGE** December 2009

**TM 76 601.14 CRANKSHAFT**  
[REPLACE] Shot peening and polishing is allowed.  
[WITH] Shot peening and polishing are allowed.

**CHANGE** April 2010

**TM 76 603.11.1 CLUTCH SPECIFICATIONS**  
[REPLACE] 603.11.1 CLUTCH SPECIFICATIONS: Drum ID maximum TBA. Other specifications to be announced  
[WITH] 603.11.1 CLUTCH SPECIFICATIONS: Drum ID maximum 3.385" NO-GO. Other specifications to be announced

**CHANGE** December 2009

**TM 77 605.8 CYLINDER HEAD and VOLUME CHECK**  
[REPLACE] See Section 504 for cc'ing procedures and chart 606.3 for specifications.  
[WITH] See Section 504 for cylinder head volume check procedure and Figure 606.3 for specifications.

**CHANGE** December 2009

**TM 80 K-80 CRANKSHAFT**  
[REPLACE] Crankshaft must be stock. No polishing.  
[WITH] Crankshaft must be stock but polishing is allowed.

**CHANGE** December 2009

**TM 80 K-80 OIL SEALS**  
[REPLACE] OIL SEALS: Oil seals must be the same ID and OD as stock seals. Seals must be installed with spring inward. Spring must be intact and seal may not be leaking.  
[WITH] OIL SEALS: Oil seals are open but must be the same ID and OD as stock seals.

**ADD** August 2009

**TM 80 609.22 CRANKCASE**  
[ADD] Exception: Main bearing pockets may be repaired but may not be relocated in the process.

**CHANGE** May 2010

**TM 82 620.9 EXHAUST SYSTEM**  
[REPLACE] a: Honda RLV part number 6800  
b: RCE T-3  
c: Hi-Tech 125.  
[WITH] Approved pipes include RLV R2 (#6800), RLV R4 (#6830), RCE T-3, Hi-Tech 125.

**CHANGE** April 2010

**TM 86 FIGURE 606.3 PISTON PORT ENGINE TECHNICAL INSPECTION DATA CHART**  
[REPLACE in heading] HPV 100  
[WITH] HPV 100/KOMET

**CHANGE** April 2010

**TM 86 FIGURE 606.3 PISTON PORT ENGINE TECHNICAL INSPECTION DATA CHART**  
[REPLACE] INLET PORT MAXIMUM CHORD WIDTH (P51) 1.320"  
[WITH] INLET PORT MAXIMUM CHORD WIDTH (P51) 1.380"

**CHANGE** February 2010

**TM 87 FIGURE 603.12 HPV HEADER & PIPES**  
[REPLACE] Figure 603.12 HPV Header & Pipes  
[WITH] Figure 603.12 Komet Piston Port and HPV Header & Pipes

[REPLACE] HPV 100 Header: Header/Flex: Header to be stock HPV Header. Flex to be 1.780 maximum diameter. Flex Length measuring from face of piston to end of flex, 12.00 min. - 12.50 max. (HPV-1, HPV-2)  
[WITH] KOMET & HPV Header and Connector: Header must be stock Komet or HPV. Connector pipe must be 1.780" maximum external diameter tube. Exhaust length as measured from piston face to end of connector must be:  
Komet K1 (Sportsman Pipe) 11.875" minimum, 12.375" maximum  
HPV 1 (Sportsman Pipe) 12.00" minimum, 12.50" maximum  
Komet K2 (Junior Pipe) 11.875" minimum, 12.375" maximum  
HPV 2 (Junior Pipe) 12.00" minimum, 12.50" maximum  
Komet K4 (Senior Pipe) 9.875" minimum, no maximum  
HPV 4 (Senior Pipe) 10" minimum, no maximum

[REPLACE] HPV 100 Senior Class Exhaust Pipe and Header (HPV 4)  
[WITH] KOMET Senior Class Exhaust Pipe

[REPLACE] HPV 100 Junior Class Exhaust Pipe and Header (HPV2)  
[WITH] KOMET Junior Class Exhaust Pipe

[REPLACE] HPV 100 Sportsman Class Exhaust Pipe and Header (HPV1)  
[WITH] KOMET Sportsman Class Exhaust Pipe

[ADD] Note: The drawings show dimensions for the HPV pipes. The Komet pipes are the same with the following exceptions:  
(1) The Komet pipes have welded end caps. (2) The outlet holes in the Komet pipes are relocated to direct the exhaust

away from the rear bumper. (3) Komet pipes have a 1/8" billet cup at the inlet end of the first divergent cone. To account for this change, the exhaust length as measured from piston face to end of connector has been reduced by 0.125".

**ADD** December 2009

**TM 91 FIGURE 609**

[ADD] Motori 7 Cylinder Head Volume. 9.5cc sprint, 12cc road race.

**ADD** May 2010

**TM 105 710.14 CAMSHAFT**

[ADD] Duration check for Intake and Exhaust lobes. Intake duration of 218.5 degrees at 0.050" lift/85.5 degrees at 0.200" lift. Exhaust duration of 221.5 degrees at 0.050" lift/96.5 degrees at 0.200" lift. (All checks will allow +2 degrees for wear and gauge variances.)

**ADD** December 2009

**TM 105 710 INTERNATIONAL CLASS ENGINES**

**[ADD] 710 STOCK INTERNATIONAL CLASS ENGINES**

These rules describe the specifications for International Class engines. All parts must be factory production parts unless otherwise specified in this manual. No machining or alteration of parts is permitted unless specifically noted. All parts are subject to be compared to known stock parts. No reading between the lines. If it not in the rules, it must remain, stock. **UNLESS OTHERWISE STATED ENGINE WILL BE TECHED AS RACED.** Additional rules may be added as WKA moves forward with this program.

**710.1 MINIMUM KART AND DRIVER WEIGHT:** 375 lbs.

**710.2 FUEL:** Gasoline only.

**710.3 TIRES:** Open

**710.4 CLUTCHES:** Must be a shoe type clutch. Any stamped drum clutch allowed. No machined drums allowed. No disc clutches will be allowed.

**710.5 FUEL TANK:** Must be floor mounted.

**710.6 CARBURETOR:** Huayi types allowed. All stock carb gaskets must be present. Choke assembly must be functioning. Choke bore must be cast. Venturi: 0.615" No-Go. Back carb bore: 0.751" No-Go. Emulsion tube must remain stock 0.064" No-Go. Main jet: 0.042" No-Go. Low speed idle jet 0.019" No-Go.

**710.7 FUEL PUMP:** Any pulsed type fuel pump is allowed. Fuel pump must be pulsed from the valve cover. \*Any other way to pulse must be approved by the WKA Tech Official for the race weekend.

**710.8 AIR FILTER:** Any air filter allowed. After market air filter adapters are allowed. Maximum length: 1.375".

**710.9 BLOCK:** Block must remain stock. Maximum bore is 2.685". Stroke is 2.123" plus or minus 0.005".

**710.10 CYLINDER HEAD:** No porting,

grinding or modification. Valve seats have two angles: single 4° bottom and single 30° top. Head gasket must be stock configuration. Combustion chamber volume minimum: 26.5cc.

**710.11 VALVE TRAIN:** Valve train will remain stock. No polishing. No grinding. No alterations. Stock 1:1 ratio OEM rocker arms only. Stock valve springs only. Maximum wire diameter is .0705". Maximum spring pressure is 10.8 lbs. at an installed height of 0.850".

**710.12 ROD:** Stock rod only; no modifications.

**710.12 CRANKSHAFT:** Stock crankshaft only; no modifications.

**710.13 PISTON AND RINGS:** Stock piston and rings only.

**710.14 CAMSHAFT:** Camshaft must be stock. Maximum running lift on exhaust is 0.242" taken on valve spring retainer with zero lash. Maximum running lift on intake is 0.238" taken on valve spring retainer with zero lash.

**710.15 FLYWHEEL AND IGNITION:** Flywheel and ignition coil must be stock. NO alterations, NO machining. Timing must be stock with stock flywheel key. Plastic fins must remain stock.

**710.16 HEADER PIPE AND MUFFLER:** Maximum length on header and muffler is 14" and minimum is 10". Header must be single stage maximum 0.750" outside diameter, 0.635 ID inside measurement. Muffler must be the Weiner type, part #89966. Muffler may be welded onto end of header pipe or screwed on.

**710.17 STARTER:** Pull starter must be present and remain stock. Pull starter may be rotated for a better cranking angle.

**710.18 OIL CATCH CAN:** Engine oil recovery system mandatory.

**710.19 OIL SENSOR:** Oil sensor may be removed.

**710.20 GOVERNOR:** Governor and governor components are non-tech.

**ADD** December 2009

**TM 105 711 INTERNATIONAL CLASS ENGINES – ROAD RACE**

[ADD] Note: For International Class engines run in the National Road Race Series, all rules in Section 710 apply with the following exceptions:

**711.1 TIRES:** Open

**711.2 CLUTCHES:** Engine clutch only. Either drum or disc clutch.

**711.3 CARBURETOR:** Main jet and low speed jet may be drilled to any size.

**711.4 AIR FILTER ADAPTER:** A 90° 2" diameter PVC pipe elbow may be used to attach the air filter to the air filter adapter.

**711.5: FLYWHEEL:** Flywheel must be either unaltered stock or a Billet ARC

model 6619 or 6618.

**711.6 HEADER PIPE AND SILENCER:** Header Pipe Length: Minimum 18"-Maximum 22". Silencer must be a RLV 91\_L type with .1285 no-go hole.

**711.7: STARTER:** Recoil starter components may be replaced with a flat flywheel fan cover bolted in place of the recoil starter housing. Starter nut may be added to employ a handheld electric starter.

**ADD** December 2009

**TM 108 751.6.2 IMPOUND/TECH AREA**

[ADD] 751.6.2.1 WKA MEMBERS ONLY IN TECH AREA: All persons present in the engine tech area must be WKA members.

751.6.2.2 USE OF CELL PHONES AND CAMERAS: Use of cell phones and cameras is not allowed in the tech area by anyone other than race officials.

**ADD** March 2010

**TM111 801.3 SPEEDWAY DIRT:**

[ADD sentence to end of paragraph] 801.3 SPEEDWAY DIRT: For the Unlimited 2-cycle class, count the best 3 of 4 national finishes beginning with the Hurricane national.

**CHANGE** February 2010

**TM 111 802.1 NATIONAL ROAD RACING**

[REPLACE] A competitor may count his best "x" National finishes from the total races offered in the series. In classes observing the Final 1 & 2 championship format, a competitor may count his best "x" National finishes from the total finals offered in the series.

[WITH] A competitor may count his best 6 National finishes from the total races offered in the series. In classes observing the Final 1 & 2 championship format, a competitor may count his best 12 National finishes from the total finals offered in the series.

**CHANGE** February 2010

**TM 111 802.1.2 ROAD RACING MINIMUM PARTICIPATION (REGIONAL TRANSFERS)**

[REPLACE] An individual must compete in at least "x" National Road Racing events (or "x" Finals) to count his/her Regional Bonus Points.

[WITH] An individual must compete in at least 5 National Road Racing events (or 10 Finals) to count his/her Regional Bonus Points.

**CHANGE** February 2010

**TM 111 802.1.3 NATIONAL ROAD RACING YEAR-END AWARDS PROVISIONS**

[REPLACE] A competitor must participate in "x" national events (or "x" Finals) in order to qualify for year-end awards.

[WITH] A competitor must participate in 5 national events (or 10 Finals) in order to qualify for year-end awards.

**CHANGE** December 2009

**TM 113 808**

[REPLACE ALL] 808 TRANSFER OF DIVISIONAL POINTS TO NATIONALS – SPEEDWAY AND SPRINT:  
[WITH] 808 TRANSFER OF DIVISIONAL BONUS POINTS TO NATIONALS – SPEEDWAY AND SPRINT:

Drivers who compete in Sprint or Speedway Divisional events are eligible for bonus points.

- Bonus points may only be earned in & transferred from a single Divisional Series in each class.
- Bonus points may only be earned in the drivers matching WKA National class.
- A driver earns (20) bonus points for competing in his or her first (2) Divisional events and (10) additional points per event for competing in their third (3rd) and fourth (4th) events for a total of (40) bonus points.
- If a driver competes in all races offered by his or her declared Divisional Series, he or she may earn an additional (4) bonus points, for a maximum of (44) bonus points. (Example A: Divisional A offers 6 races and the competitor runs all 6 races; he/she will earn a total of (44) bonus points. Example B: Divisional A offers 6 races and the competitor runs only 5 races; he/she will earn a total of (40) bonus points.)
- Drivers must compete in a minimum of (2) Divisional Events for the bonus to be applied (as well as meet the National Series minimum participation requirement).
- Bonus points from a single Divisional event for two or more National classes requires entry in two or more Divisional classes.
- To receive the bonus points, the driver must take a competition green flag and must not be disqualified.
- Bonus points will be awarded at rained-out events. However, the driver must be present at the event and purchase a pit pass. Drivers who pre-empter but do not attend the event will not be eligible for the bonus points.

-----  
THIS AREA RESERVED FOR A THREE HOLE PUNCH  
-----