

# 2024

# Dirt Oval

# National Rules

August 16<sup>th</sup>, 17<sup>th</sup>, and 18<sup>th</sup>

Rain-Man's Hobby and Raceway, Bakersfield, CA

## **2024 West Coast Dirt Oval Nationals General information:**

### **Race schedule:**

Friday, August 16, 2024: 10am Practice with 1 Seeding Round starting at 5pm.

Saturday, August 17, 2024: Doors open at 7am with 3 Qualifying Rounds

Sunday, August 18, 2024: Doors open at 7am 1 (Last Chance) Qualifying Round, Single A-Mains

Rainman's Hobby and Raceway is an indoor high bite clay track with a run line for oval usually about 173 to 175 feet. 2 or 3 wire MyLaps transponders required to work with our system.

Super clean Restrooms with showers. RV Camping is allowed without hookups.

Live RC will have all info including rounds qualifying and mains.

There will be specialty awards, including a sportsmanship award, earned by the best mannered, most helpful, and respectful racer. Long-haul award bestowed to the racer traveling the furthest distance. Iron Man award this will be given to the racer signed up in the most classes with a tiebreaker of finishing performance. TQ, 1st, 2nd, and 3rd for all classes.

### **West Coast Dirt Oval National Classes:**

- Modified wedge.
- Modified sprint.
- Modified rubber tire sprint.
- Modified rubber tire model.
- 13.5 EDM.
- 17.5 Sprint.
- 13.5 rubber tire sprint.
- 13.5 truck.
- Mud boss.
- Superstock.
- 17.5 spec rubber tires sprint.
- Spec Slash modified.
- Bandit Hobby stock.
- SR10.

### **Race entry fees:**

- 1st Class \$60.
- 2nd Class \$30.
- 3rd Class \$20.
- Unlimited classes \$120.

T-Shirt with your first entry. While selecting your classes, make sure to select your T-shirt size.

**NO REFUNDS AFTER JULY 26th.**

During Qualifying & Racing; Go to the Tech table first, get in line at base of Stairs, set car down at the top of turn 4. Exit down Ramp & pick up car at the top of turns 1 & 2. You are responsible for turn marshalling after your race, if you are unable, please find a replacement.

There will be a Sportsmanship Award \*Earned by the Best Mannered/Most helpful Racer\*

There will be a Long Hall Award Bestowed to the Racer traveling the farthest distance

There will be an Iron Man Award this will be deserved by the Racer that signed up in the most classes

(Tie Breaker – Finishing Performance)

Illustrious A-Main Awards All Awards will be presented at the Awards Ceremony

For more Information, go to --- Rain-Man's Hobby and Raceway on Facebook

**Class Rules**

**Expert' Classes: Intended for Top Level Racers** (If you run a 'Expert' Class you cannot run an Apprentice Class)

**MODIFIED WEDGE: (this is our Spectacle class)**

- Any 2wd 10th scale car
- Any 5.40 Modified motor
- Any Hard Case 2cell Lipo Battery\*
- Open Speed Control/Open Timing
- Open Tire (no "Pin-Spikes")
- Any Wedge or Late Model Body, No limit on sideboards/wings
- Recommended Tire = BSR Orange or Green OR CW R2 or X2
- Recommended Roll-out =  $>.99$  (depending on motor turn)
- No Weight Rule

**MODIFIED SPRINT: (Fastest Sprint Class)**

- DODC National Rules
- Any ROAR approved motor\*\*
- Any Hard Case 2cell Lipo Battery\*
- Any ROAR approved ESC/Open Timing
- Open Foam Tires
- Recommended Tire = BSR Orange or Green OR CW R2 or X2
- Recommended Roll-out =  $>.99$  (depending on motor turn)
- Minimum Weight 55oz

**MODIFIED RUBBER TIRE SPRINT: (Prominent class on the West Coast)**

- DODC National Rules
- Must have multi-gear transmission
- Any ROAR Approved motor\*\*
- Any Hard Case 2cell Lipo Battery\*
- Any ROAR approved ESC/Open Timing
- Open 2.2" Wheels Only--- Open 2.2" Tires Only (no "Pin-Spikes")
- Recommended Tire = Ground down, J Concepts Ellipse-Silver or Pro-Line Shadows-Clay, Raw Speed Slicks- Gumball
- Recommended Roll-out = >.99 (depending on motor turn)
- Minimum Weight 57 oz.

#### **MODIFIED RUBBER TIRE LATE MODEL:**

- DODC National Rules
- Must have multi-gear transmission
- Any ROAR approved motor\*\*
- Any Hard Case 2cell Lipo Battery\*
- Any ROAR approved ESC/Open Timing
- Any 'Late Model' Body
- Open 2.2" Wheels Only: Open 2.2" Tires Only (no "Pin-Spikes")
- Recommended Tire = Ground down, J Concepts Ellipse-Silver or Pro-Line Shadows-Clay, Raw Speed Slicks- Gumball
- Recommended Roll-out = >.99 (depending on motor turn)
- Minimum Weight 57 oz.

#### **17.5 SPRINT: (Historically, the most attended class at the WCDON)**

- DODC National Rules

- 17.5 Trinity Equalizer Spec Motor only\*\*\*
- Any Hard Case 2cell Lipo Battery\*
- Any ROAR approved ESC must be in 'blinky'/non timing mode
- Open Foam Tires
- Recommended Tire = BSR Orange or Green OR CW R2 or X2
- Recommended Roll-out = ~ 2.0
- Minimum Weight 55 oz

### Oval Rules 13.5 EDM Chassis:

- EDM's must resemble contemporary full-scale cars racing in "World of Outlaws" and "DIRT" sanctioned events.  
Wheelbase: 9.5" min, 11.5" max
- Minimum weight = 53 oz.
- Maximum width: 10.0"
- Must be 2-wheel drive (rear wheel driven only)
- Maximum length of complete car: 19.5" Motor:
- Any 13.5 ROAR approved motor may be used.
- All motors are subject to disassembly at any given time during an event at the race director's discretion.
- All stators must have 13.5 winds. Wire and turns are subject to be un-wound and examined for correct wire and turns at any time during the event. Battery:
- Any 2 cell hard cased lipo battery may be used.
- No additional batteries are allowed including those used to power receivers or cooling fans.
- All batteries will be checked prior to each race to ensure battery voltage is a maximum of **8.44** volts or less. If the battery reads **8.45** or more, you do not race.
- No Gyro's or driving assist devices will be allowed. ESC:
- Any Roar approved, Open timing. Tires:
- Foam Tires ONLY.
- Max wheel diameter: 2.0"
- Front tire and wheel width: Max 1.1"
- Rear tire and wheel width: Max 1.5", Min 1.4" Bodies:

### Oval Rules 13.5 EDM Chassis Continued:

- All fabricated body panels I.E. Doors, Windows, Roof, and Inner Panel must be made from minimum .020" thick Lexan/polycarbonate material (.020" measurement does not include any decal or wrap)
- All Vacuum formed body panels must be pulled from minimum .030" thick Lexan/polycarbonate material. Separate hoods and front body panels may be pulled from .020" Lexan/polycarbonate material
- No additional wings, flaps, spoilers, wickers, or vents will be allowed.
- The front bumper must be mounted flat and cannot be angled to act as a wing. An additional front body panel is allowed on the front of the car but may not extend forward of the front bumper.
- Max Side lip on front panel and Hood 1/4"
- Maximum front bumper width: 5.0"
- Front body panel max width: 4.0"
- Front body panel max chord length: 3.0"
- Inner panel must have scale appearing "hood" that extends from the door leading edge to the leading edge of the roof.
- Said "hood" must be centered on inner panel
- "Hood" Width: Minimum 2.5"
- Minimum "hood" height for entire length is: .750"
- Clearance between top of hood and leading edge of roof is min. 1.0" and max 2.0"
- Dimensional specifications: See drawing
- Side panels must be no larger than one of the following three templates: Bicknell Template, Teo Template, Troyer Template See drawings below.
- Left Side Panel must be inside a straight line drawn from the outside of both left side wheels/tires and outside of left side of chassis.
- Front and rear windows must be removed, and any clear portion is included in max roof length dimension.
- Side windows must remain clear
- Both sides of body must be at 90 Degrees to the rear of body and or spoiler  
Door/side panel may have a 90 degree "BEND IN" max 3/8" at bottom for strength
- No rear wheel cutouts are allowed on the horizontal plane of the inner. The right and left rear wheel wells must be cut out to appropriate scale dimensions.
- Bodies must have at least 1/3 of the right rear tire exposed when viewed from front, top and rear of car.

**Oval Rules 13.5 EDM Chassis Continued:**

- Must have 2 side panel braces as specified in drawing that must hold side panels at 90 degrees to inner panel both statically and during racing conditions.
- Inner panel and spoiler cannot extend beyond rear of side panel
- The outer front edge of inner panel cannot extend beyond the front of the door but may taper from that point forward of the door toward the hood at a point no more than 1.5" forward of the door.
- Roof specifications: Minimum Length and Width 5.25" / Maximum Length and Width 6.25" See drawing
- Must have rear roof spoiler Min 1/8" Max 1/4" bent DOWN between 45 and 90 degrees
- Rear spoiler: max chord is 3.0" from body deck including any wicker bills

### **Journeyman' Classes:**

**Intended for experienced Race**

#### **13.5 RUBBER TIRE SPRINT:**

- DODC National Rules
- Must have multi-gear transmission
- Any 13.5 ROAR Approved motor\*\*
- Any Hard Case 2cell Lipo Battery\*
- Any ROAR approved ESC must be in 'blinky'/non timing mode
- Open 2.2" Wheels Only--- Open 2.2" Tires Only (no "Pin-Spikes")
- Recommended Tire = Ground down, J Concepts Ellipse-Silver or Pro-Line Shadows-Clay , Raw Speed Slicks-Gumball
- Recommended Roll-out = 1.27
- Minimum Weight 57oz.

#### **13.5 TRUCK: (Intended for old school Dirt Oval & Modern Off-Road Trucks)**

- Any ROAR approved 13.5 motor\*\*
- Any ROAR approved ESC must be in 'blinky'/non timing mode

#### **13.5 Truck Continued:**

- Any Hard Case 2cell Lipo Battery, must remain in stock centered location
- Rear or Mid Motor
- Must have a multi-gear transmission



- Must use commercially available truck suspension arms
- After market chassis' ok
- After market towers ok
- Short or long shocks ok
- Internal limiters, pistons, springs and oil changes allowed
- Rear Toe no less than 2° and must be the same on both sides
- Side Dam - Length; from rear of cab to rear spoiler Height; to top of cab.
- Must use truck wheels
- Rubber or Foam Tires ok (no 'Pin-Spikes')
- Minimum weight 56oz

### **MUDBOSS: (Popular Class, but slightly different than the rest of the Nation)**

- Hobbywing Justock ESC paired with a Hobbywing 13.5 locked timing Motor\*\*\* Or Traxxas XL-5 ESC#3018R, paired with a Traxxas 12T Titan Motor\*\*\*
- Any Hard Case 'long' 2cell battery\* (No shorty's allowed)
- Any Servo may be used
- Any Servo saver or servo arm may be used
- Aftermarket bell cranks OK
- Salvas Mudboss body only
- Chassis:
- Traxxas Slash 2wd ONLY. LCG Traxxas chassis OK
- Custom Works adjustable rear control arms allowed. Part #3270.
- RPM off-set compensating front control arms allowed. Part #70552.
- Any RPM 2wd Traxxas Slash stock replacement parts are allowed.
- NO carbon fiber or graphite parts allowed.
- Front stock bumper, right side nerf bar/bumper and front body post brace must be removed.
- The left side nerf bar/bumper and rear bumper can be removed if desired.
- Traxxas front optional bumper can be used angled down. Part #2735.
- Alterations to the chassis or modifications to the drivetrain/suspension components is not allowed.

### **MUDBOSS Continued:**

- Adjustments:
- Any Traxxas 2wd Slash stock spur gear 76/83/86/90 may be used with all transmission parts in place including the slipper.

- No modifications can be made to the stock transmission case. RPM transmission case is allowed.
- No modifications allowed to the stock transmission gearing. NO internal plastic gears allowed. Traxxas 2wd Slash steel transmission gears ONLY.
- Transmission functionality rule – motor cannot spin while turning slowly one rear wheel a full turn.
- Suspension:
  - Traxxas 2wd Slash plastic shocks ONLY (grey or black version) (front shocks, bodies & shafts stay in front), (rear shocks, bodies and shafts stay in rear).
  - Aluminum Shock caps OK
  - Only original Traxxas 2wd Slash front springs #5857/P and rear spring #5858/P are allowed.
  - Shock travel may be limited with internal shock spacers/shims.
  - Original pistons from Traxxas 2wd Slash kit ONLY (original 1, 2 or 3 hole). NO modifications can be made to shock pistons.
- Wheels & Tires:
  - Short Course Wheels only, Open Tire any compound (No pin-spikes)
  - No Weight Rule
  - Any pinion size allowed.

### **SR10 Spec Class:**

- Shocks & Suspension
  1. Must run stock shocks and springs
  2. Changing shock oil in each of the shocks is allowed
  3. Must run stock 12mm shock piston, 2-hole, Part No.91444
  4. Limiters in the shocks are allowed
- Pre-load and droop may be adjusted Transmission Gearing & Differential
- Spur gear must be 87T, Part No.9654 pinion gear must be no higher than 24T Differential, when turning one back tire, opposite wheel must not turn in the same direction, holding off ground. Fluid may be adjusted.
- No aftermarket upgrades to the drivetrain are allowed, MUST BE ALL Stock SR10 components

### **SR10 Spec Class Continued:**

- Must run stock slipper clutch assembly, no lockouts
- Any size pinion gear is allowed Electronics – Motors, ESC, Servo & Radio
- Electronics must be mounted in stock OEM location
- No AVC, GYRO or additional traction control devices allowed (Automatic DQ)
- Motor 3300Kv Reedy from Team Associated is the only motor allowed

- No motor Cooling Fan
- ESC must be Reedy SC600-BL Brushless ESC
- Steering Servo OEM Servos steering servo part no. 27110 and 27111
- Radio – XP120 2.4 Radio & Receiver also you can use other radio and receiver if want to pair to your existing radio. Radio part number 29203 receiver 29256 or 29204  
Batteries
- 7.4V / 2S LIPOs Maximum (8.44V), running over this voltage is automatic DQ no more than 6000mah allowed
- Battery must be mounted down the center of the chassis or in OEM location Body Style
- Molded SR10 Monte Carlo body or approved bodies noted below are the only allowed bodies in SR10.
- No additional wings, flaps, wickers, vents or air devices allowed (no added holes)  
You may have a total of 1” spoiler including the molded spoiler
- Spoiler may not be wider than the stock molded spoiler
- Decking is not allowed, must have all windows and no cut outs of any window
- Body must be cut to trim lines; No cutting out of the back above bottom of bumper, fender wells can be cut for tire clearance
- **Approved Body list:**
  1. SR10 Street Stock Body, Clear (paint/wrap as wanted) Part No. 784695711921  
SR10 Street Stock Body, Clear (Painted) Part No. 784695711938
  2. JCONCEPTS 1978 Camaro Street Stock Body – Part No. 0395
  3. JCONCEPTS 1987 Monte Carlo Street Stock Body – Part No. 0422L

### **SUPER STOCK SLASH: (Traxxas based’ Class from Hot Rod Hobbies)**

- Electronics: Only Traxxas XL-5 ESC part [#3018R](#) Paired with Traxxas Titan 12T 550 brushed motor part #3785 \*\*\*(no motor tampering allowed. THIS WILL RESULT in immediate disqualification).
- Traxxas stock 2075 steering servo (no metal gears allowed in servo).
- May change receiver to accommodate ‘Non-Traxxas’ Radio.

### **SUPER STOCK SLASH Continued:**

- **90t** spur gear must be used. Pinion gear may only be **16t to 20t**.
- Battery;
- Any (Long) Hard Case 2cell battery\* maximum of 5500mah (no shorty packs).
- Battery must remain in stock centered location. Moving Battery fore & Aft- OK.
- Any full body stock car made for Traxxas slash or SCT Only. (ex: Shark RC /McAllister Rc or Jconcepts).

- Spoiler Only: No more than 1 1/2" from deck lid. No side dams or Spoiler support.
- 'No Decking', Windows must remain intact.
- **"BOX STOCK" Traxxas 2wd Slash chassis or LCG chassis Only.**
- The only RPM durability upgrades allowed are Front caster blocks part #80712, front bearing carriers part #80372 and rear bearing carriers/hubs part #80382.
- Items you may adjust: Camber, front toe, ride height, shock oil, pistons, shock limiting, shock preload.
- Must Retain Factory shock locations and battery location front to rear.
- Arms must remain stock and in stock position.
- NO ADJUSTABLE REAR ARMS.
- NO ALUMINUM PARTS other than shock caps.
- Suspension:
- Traxxas aluminum shock caps are allowed.
- Stock Traxxas 2wd Slash shocks must be used (grey or black versions both allowed).
- Front bodies and shafts stay in front - and rear bodies and shafts stay in rear.
- Only original Traxxas 2wd Slash springs may be used. Front spring #5857, rear spring #5858.
- Transmission case must remain stock. NO plastic internal gears. NO RPM TRANSMISSION CASES
- Transmission functionality rule, motor cannot spin while turning slowly one rear wheel a full turn.
- Tire Grinding IS allowed, Grooving is not allowed.
- Tire sauce is OK.
- No taping of tires. All tires be purchased pre-mounted.
- PREMOUNTED Stock Slash OEM kit tires OK. S1 compound OK.
- DURATRAX PREMOUNTS 'Slash 2WD style only'
- Duratrax Speedtread UPSHOT
- Front: DTXC2952(Red) DTXC2934(Black) Rears: DYXC2953(RED) DTXC2935(black)
- Duratrax Speedtread ROBBERS

#### **SUPER STOCK SLASH Continued:**

- Front: DTXC2943(Red) DTXC2928(Black) Rears: DYXC2944(RED) DTXC2929(black)
- No minimum weight rule, however additional weight CANNOT be added.

#### **Apprentice' Classes:**

**Intended for up-and-coming Racers, with regulated equipment**

## 17.5 SPEC RUBBER TIRE SPRINT: (perfect way to get your start in Sprint Car)

- 17.5 Trinity Equalizer Spec Motor only\*\*\*
- Any (Long) Hard Case 2cell battery\* maximum of 5500mah (no shorty packs).
- Any ROAR approved ESC must be in 'blinky'/non timing mode
- DODC National Rules
- 6x6 main wing
- Rear toe open
- Front wing optional with a maximum of 4 square inches.
- 2" Wheels only
- Custom Works 2" Sticker, Street Track or Slick Only, any compound.
- Recommended Tire = Custom Works Sticker HB
- Recommended Roll-out = ~ 1.9
- Minimum weight 55 oz

## SPEC SLASH MODIFIED: (Stock Slash with a Modified Body)

- SLASH box Stock Motor\*\*\*, **No motor modifications** Traxxas XL-5 ESC#3018R, paired with a Traxxas 12T Titan Motor
- **Stock Gears: 86 Spur 19 Pinion**
- Any (Long) Hard Case 2cell battery\* maximum of 5500mah (no shorty packs).
- Battery must remain in stock centered location
- SLASH box Stock ESC in factory location
- OEM factory chassis
- OEM factory suspensions including shock towers and shocks
- Durability upgrades allowed (RPM F&R Hubs, Shock Caps, non-performance enhancing)
- Internal limiters "OK" (pistons, springs MUST BE STOCK, oil changes allowed)
- No transmission modifications (gears or oils)

## SPEC MODIFIED Continued:

- No heating & bending of any parts (a-arms especially)
- SLASH box stock tires in stock location front on front & rear on rear (no softening, tire dope, snipping, grooving of any kind) no S1 compound.
- Modified Bodies only, similar to CW Tornado – refer to <http://www.rcchilibowl.com/rules>
- No Weight Rule

## **BANDIT HOBBY STOCK: (Least Expensive class)**

- Box stock Traxxas Bandit ready to run #24054-4.
- Must be completely box stock, incl. esc, 12t titan motor\*\*, servo, springs, shocks, shock length etc.
- Any (Long) Hard Case 2cell battery\* maximum of 5500mah (no shorty packs).
- Battery must remain in stock centered location
- Motor must maintain stock bullet connectors. No travel limiting.
- Stock gearing 21 pinion x 83 spur.
- Transmission must remain stock with steel gears only and stock slipper assembly.
- Only stock length fixed camber links are allowed.
- No adjustable camber links.
- Only changes allowed are as follows;
- May change radio and receiver.
- Box stock front and rear tires and wheels or factory mounted Anaconda tires. (Recommended)
- Stock kit tires - TRA2470R or TRA2471R.
- May add foam inserts to stock front tires.
- Anaconda tires - TRA2478A or TRA2479A
- May add 5x8 or 5x11 ball bearings to front and rear hubs.
- May upgrade to rpm front and rear hubs for durability and to allow for 5x11 bearings.
- Optional RPM wide front bumper/body mount and gear cover may be used.
- Street Stock / Bomber style bodies only.
- Must be manufactured for 1/10 scale buggies, No Sedan / Touring car, late models or truck bodies, No sideboards.
- 1" spoiler max

### ***Suggested bodies:***

- Custom works, #9002, 9075.
- McAllister, 268, 264,306,290,134,136,159,181,182,292,303,313,125,318.

### **BANDIT HOBBY STOCK Continued:**

- Mr/Kustoms, 18ss1w, 17sspw, 18ss1s, 17ssps.
- Shark Bodies 1/10 street stocks.
- Other bodies may be run if they fit the spirit of the class.
- No Weight Rule

### **Minimum Weights:**

### **Expert Classes:**

- Modified Wedge = No Weight Rule
- Modified Sprint (Foam Tire)= 55oz
- Modified Rubber Tire Sprint = 57oz
- Modified Rubber Tire Late Model = 57oz
- 17.5 Sprint (Foam Tire)= 55oz

### **Journeyman' Classes:**

- 13.5 Truck = 56oz
- 13.5 Rubber Tire Sprint = 57oz.
- 13.5 EDM = No Weight Rule
- Mudboss = No Weight Rule
- Super Stock Slash = No minimum weight rule, however weight CANNOT be added.

### **Apprentice' Classes:**

- 17.5 Spec Rubber Tire Sprint = 55oz
- Spec Slash Modified = No Weight Rule
- Bandit Hobby Stock = No Weight Rule

DODC Rules: <https://www.dirtoval.com/>

### **GENERAL CHASSIS RULES:**

- For turn marshal safety all cars must have a front bumper that is made of a shock absorbing material e.g. Nylon, Delrin, Kydex etc. Front bumpers must be mounted in such a way that they will contact an object prior to any other portion of the car in a front impact.
- All cars must have 4-wheel independent suspension. • Single speed transmissions only.
- No gyros or traction control of any kind are allowed including those built into receivers like the Spektrum AVC, etc...

- All power, radio equipment and weights must be in a secured and fixed position and not moveable during a race.

#### **\*BATTERY TYPE & VOLTAGE:**

This year we are allowing 7.4V or 7.6V Lipos in all classes. Voltage will be checked, **8.44** is the MAX. If you go through tech and the battery reads **8.45 or more**, you will run the battery down in the car that you are racing to **8.42**. The car will not leave the tech area if it does you will not race that heat or main. Battery Must be a Hard Case 2cell, for all classes.

No additional batteries are allowed including those used to power receivers or cooling fans.

#### **MOTORS:**

\*\*All motors must be ROAR approved and available to the general public for purchase. We can tech motors for consistency (stator stack height and resistance for proper wind) if one motor shows a significant difference it will be DQ'ed by the race director's discretion.

\*\*\* Equalizer motor Must be sealed. Hobby Wing & Traxxas Motors - Cannot Change timing, Stator, Rotor or enhance Magnets.

#### **SPEED CONTROLS:**

- Modified Classes - Open Speed Control/Open Timing
- Blinky Mode Classes - ROAR Approved Non-Timing ESCs for blinky mode.
- Spec Speed Control – as specified per class.

Indepth Technical Scrutiny Possible for Top 3 Finishers in A Mains (Post Tech)

\*Classes & Rules subject to Change\*

For more Information, go to --- Rain-Man's Hobby and Raceway on Facebook

Expert = Top Caliber Racer

Journeyman= Experienced racer

Apprentice = Up and coming racer

Newcomer = True beginner