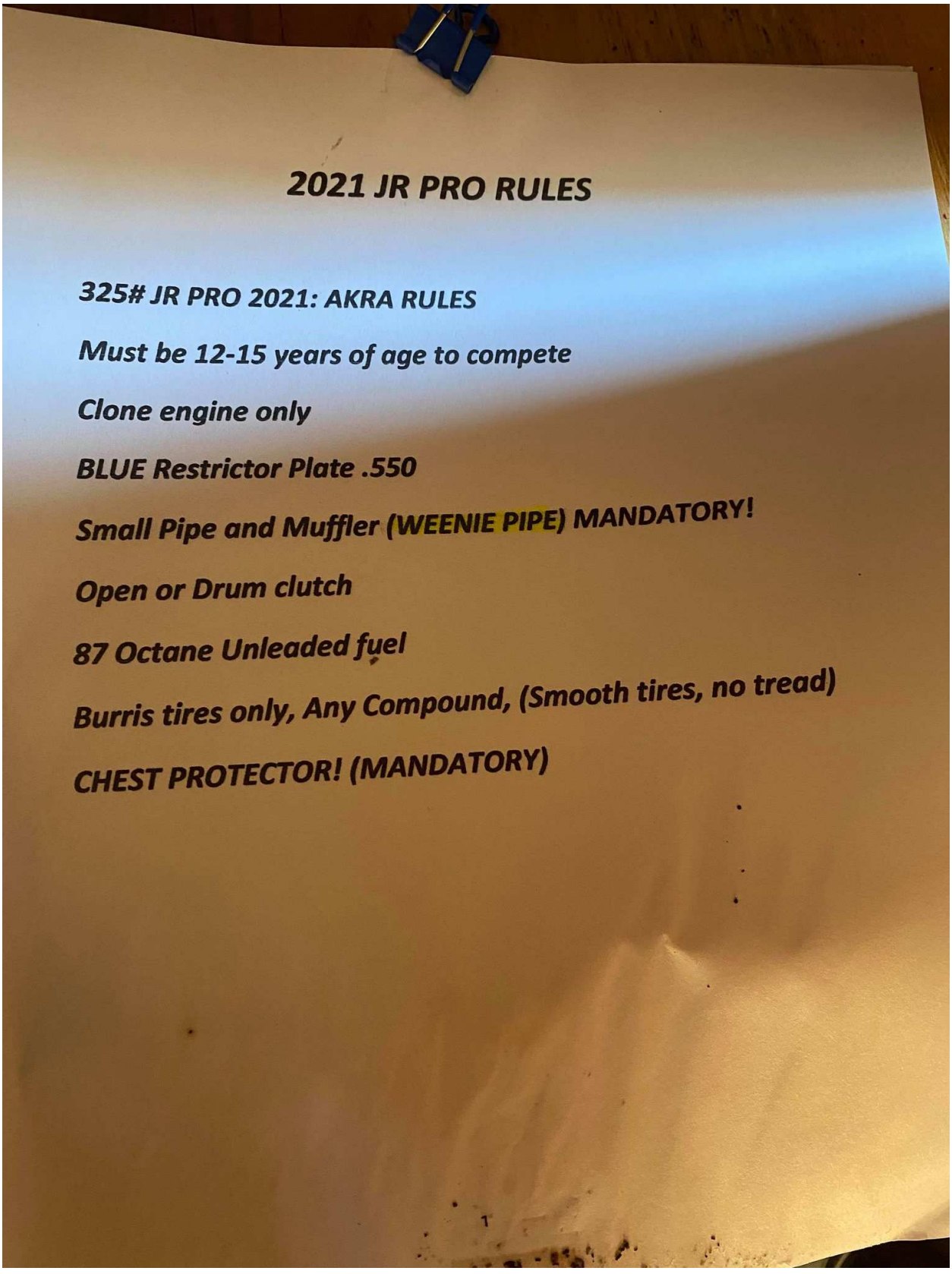
2021 Doddridge County Fair -

Mini Wedge and Kart



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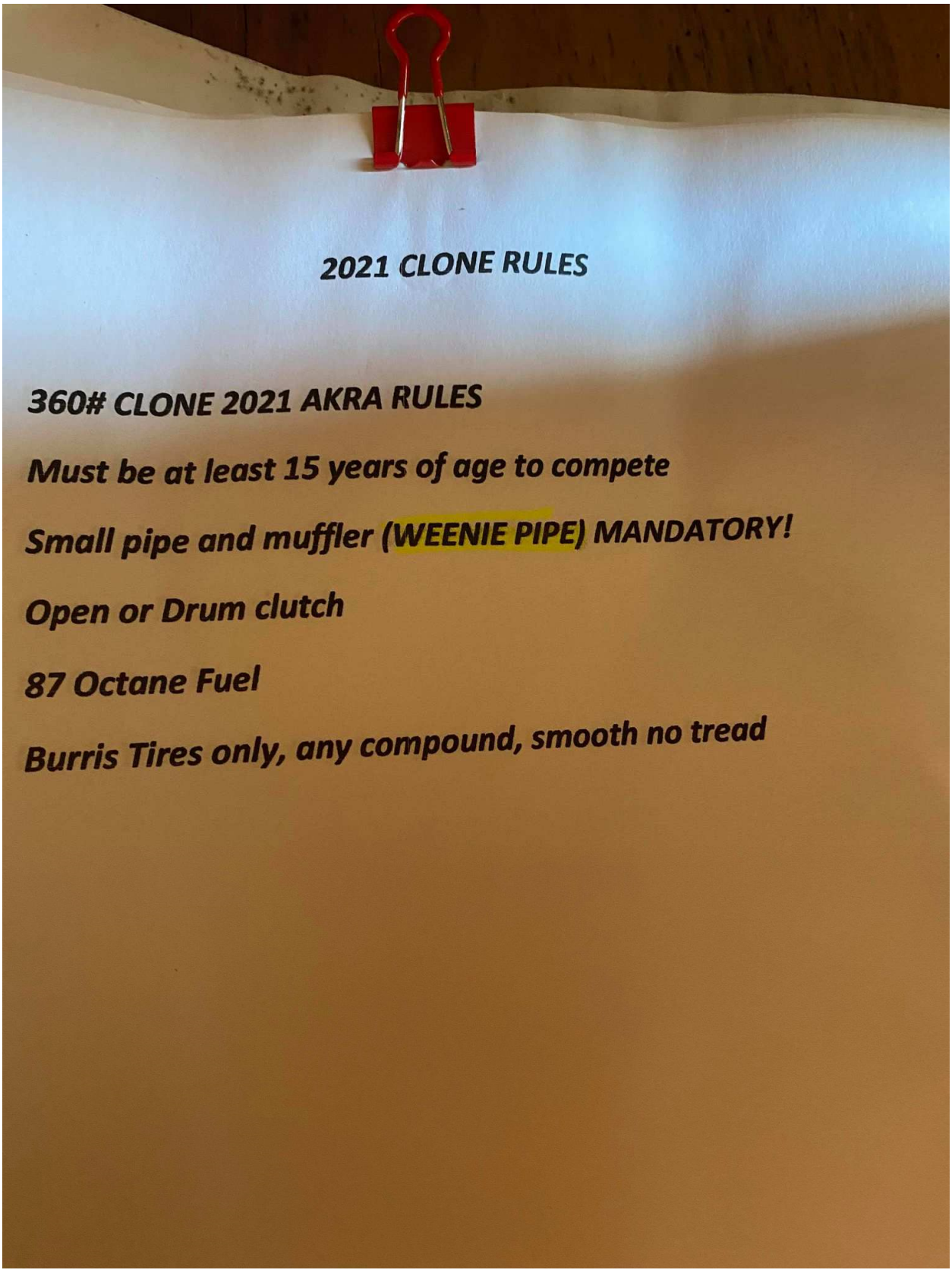

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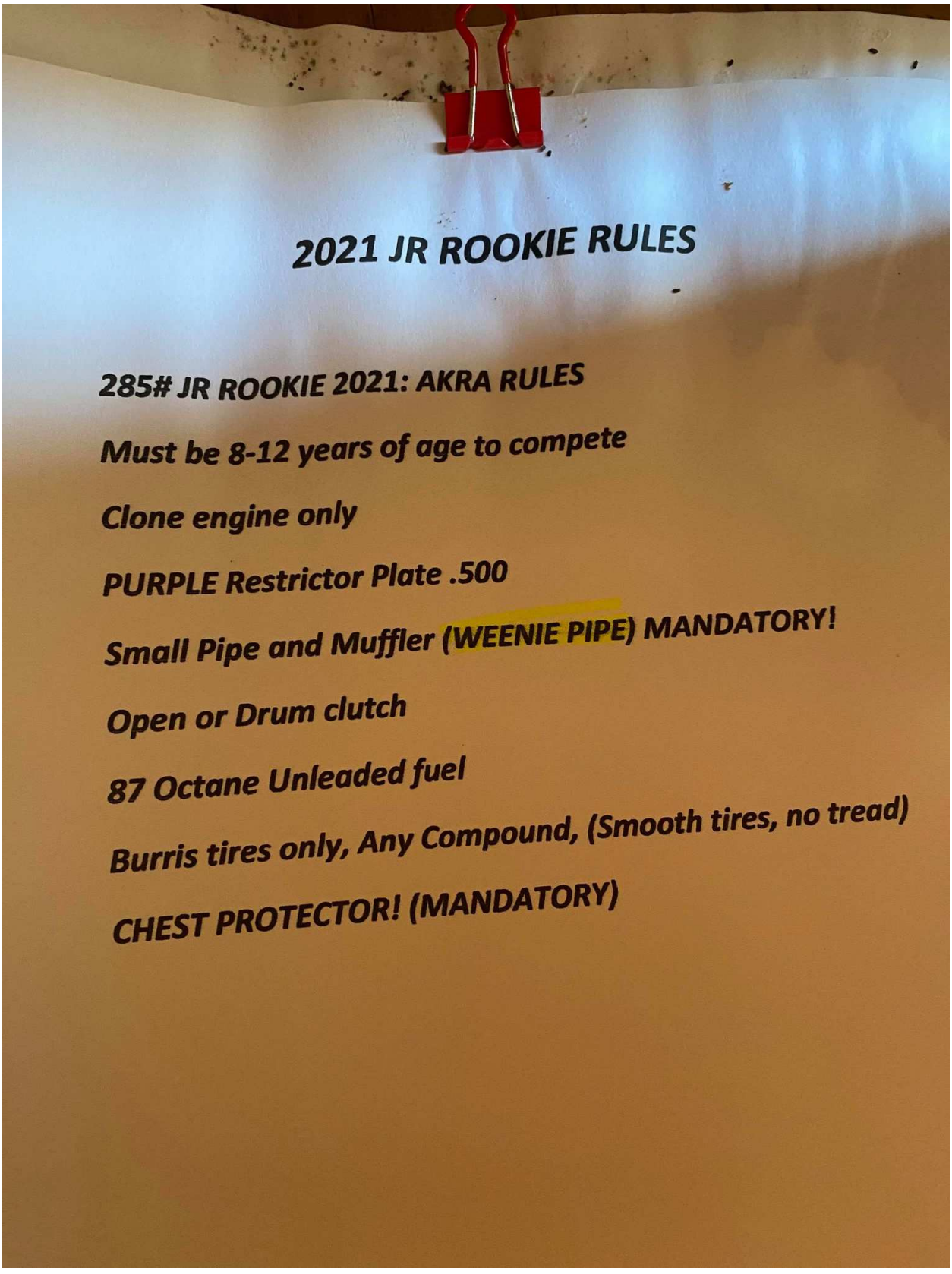

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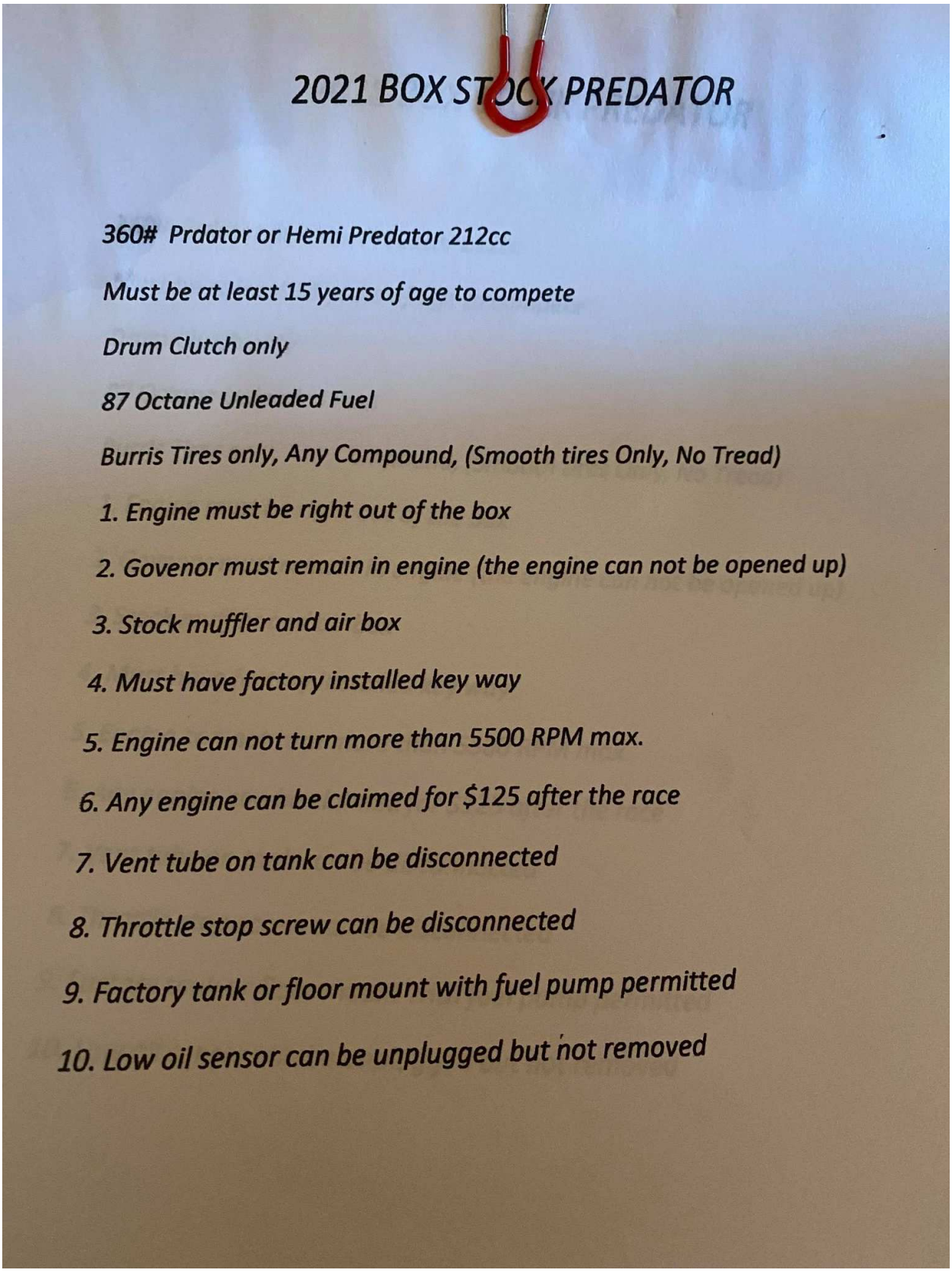

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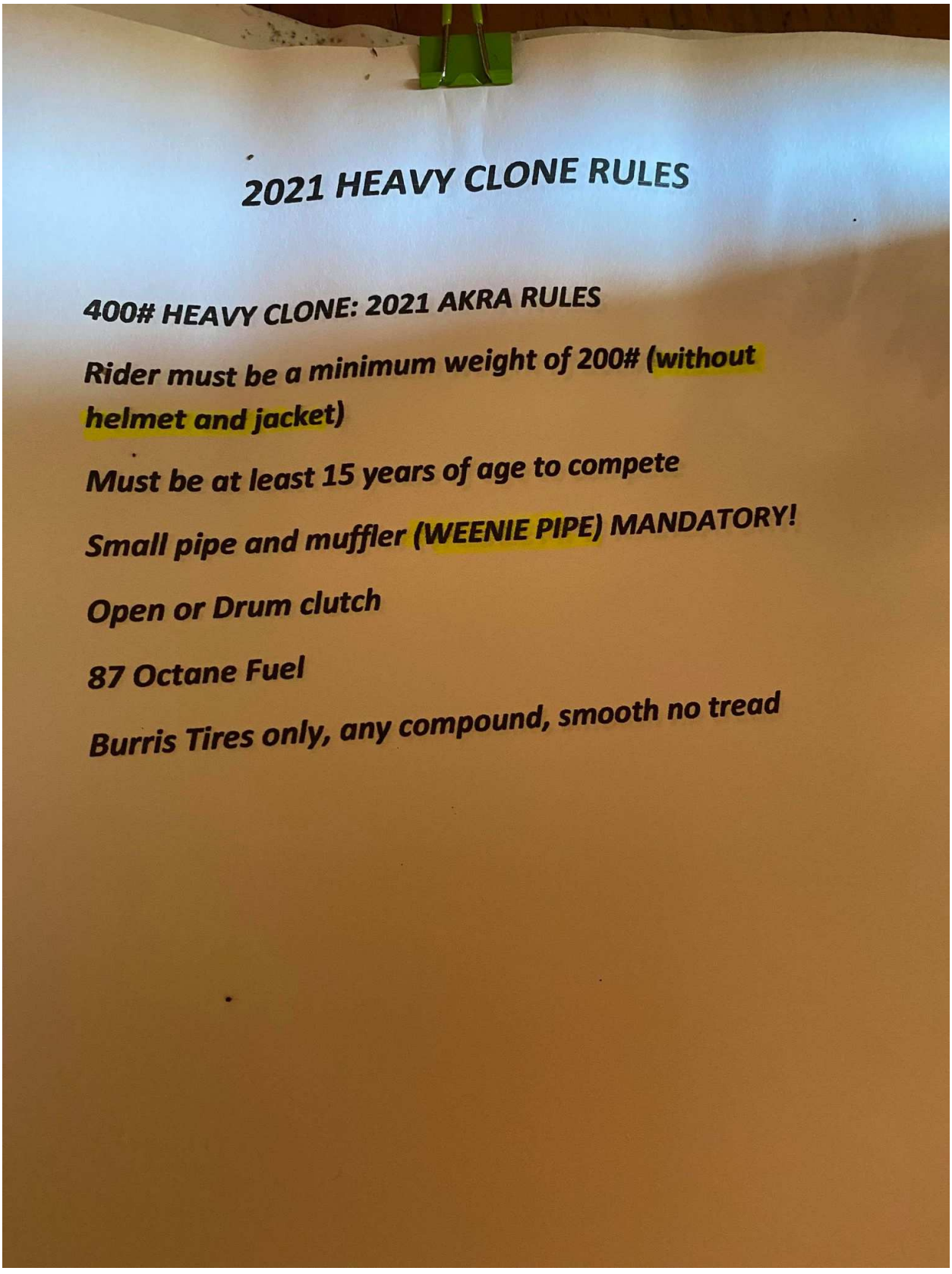

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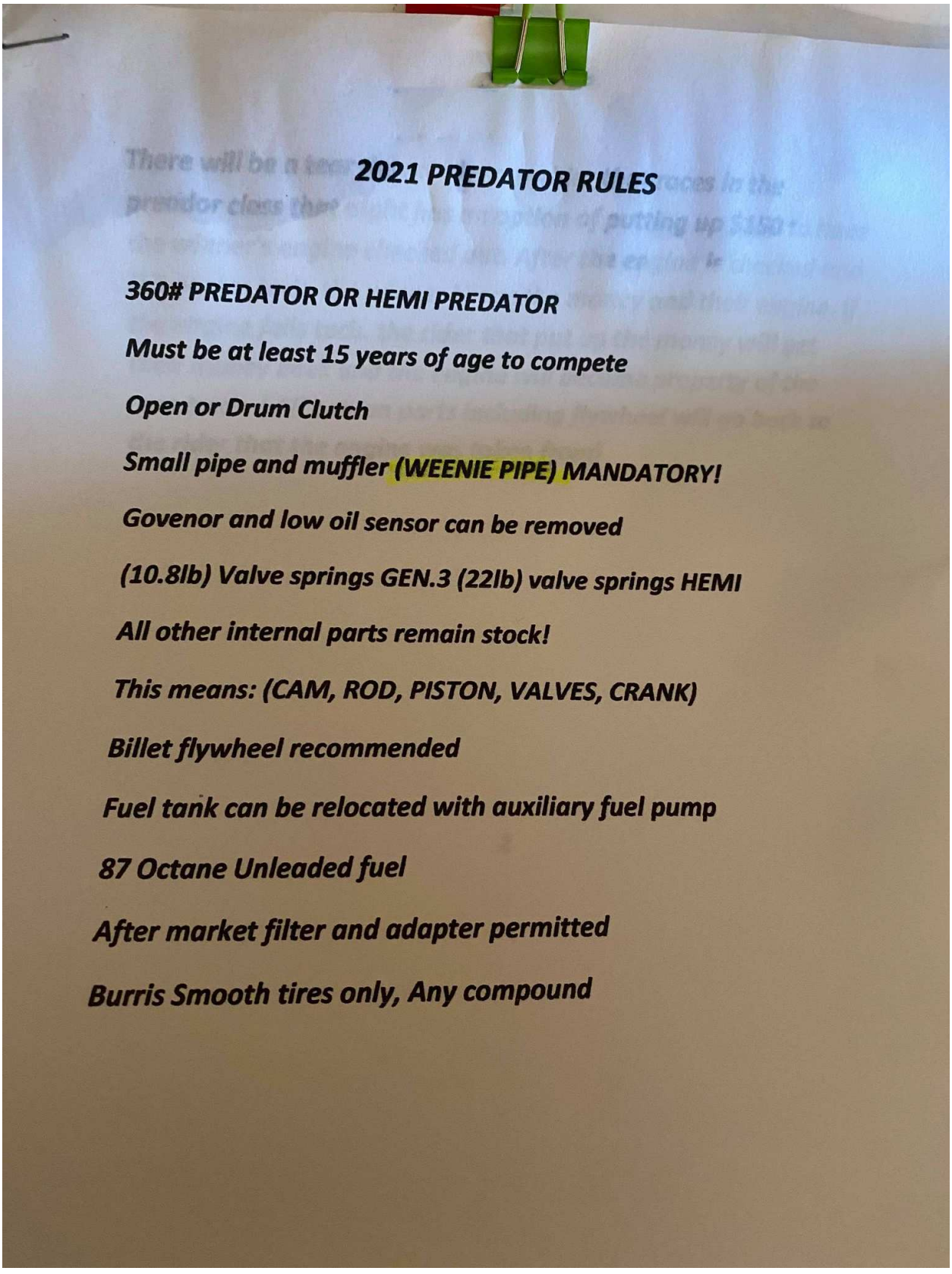

2021 PREDATOR RULES

360# PREDATOR OR HEMI PREDATOR

Must be at least 15 years of age to compete

Open or Drum Clutch

Small pipe and muffler (WEENIE PIPE) MANDATORY!

Govenor and low oil sensor can be removed

(10.8lb) Valve springs GEN.3 (22lb) valve springs HEMI

All other internal parts remain stock!

This means: (CAM, ROD, PISTON, VALVES, CRANK)

Billet flywheel recommended

Fuel tank can be relocated with auxiliary fuel pump

87 Octane Unleaded fuel

After market filter and adapter permitted

Burris Smooth tires only, Any compound

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Driver Personal Safety

1. All drivers must wear an approved SFI-1 certified or SFI 3.2A/1 fire suit. A certification patch is required on the fire suit.
2. A FULL FACE Snell 05 rated helmet OR NEWER will be mandatory at all tracks and at all MWRA events. No motocross type helmets with goggles and mouth guard will be allowed.
3. All drivers must wear a neck brace. **Haans or NecksGen device is strongly reccomended!!**
4. All drivers must wear arm restraints. Arm restraints are to be worn between the elbow and wrist area.
5. MWRA strongly recommends the use of fire resistant underwear.
6. Triangle A-nets are required on each side of the driver.
7. Gloves must be worn at all times while driving.

Body Rules and Guide-lines

1. Body must be constructed of .040" aluminum with no sharp or jagged edges.
2. Rear deck height must not exceed 24" from the ground and be at least 20" from the ground.
3. Sail panels and spoilers are allowed.
4. Must be 4" of body behind the rear wheels secured by a flexible strap, plastic recommended. This section may be made of plastic like the rear flexible strap to help prevent tire damage.
5. Race plastic may be used for the nose and trim.
6. Body must fully enclose the wheels.
7. Body work must not cover engine area.
8. Must be at least 4" aluminum deck lid strip across the back.
9. Body must cover side crash bars and side nerf bars, but not the front or rear bumpers.
10. Tires must remain inside the body.
11. 48" max body width. 90" max body length.
12. Driver must not be exposed to the track on either side or be able to get their feet tangled around the wheels. Car must have a skid plate that starts beyond the front pedals and continues the length of the car to at least the front of the seat made of at least .063" aluminum and bolted, not riveted, with lock nuts to the frame. **Lead weight is not to be mounted to the skid plate. Aluminum weight clamps are allowed.**

construction of mini-wedge must consist of at-least DOM tubing. It has better strength yields and makes an all-around better car. The MWRA has heard many recommendations on this subject. Again, any new mini-wedge construction will need to be made of a minimum of DOM tubing. All existing cars will be allowed to run till they are phased out. The MWRA will not be responsible for any accidents, injuries, or death.

Roll Cage Construction

1. All roll cages are to be made of steel tubing no less than 1" diameter, consist of proper welds and notches where the tubes are joined.
2. All cars must have a 6 point roll cage made of at least .065" DOM steel tubing built within the following guidelines.
3. Roll cage must have a vertical upright on both sides of the driver welded to the main frame on the bottom and welded to the top roll bars on the top or main loop going around the driver welded to the main frame at the bottom and welded in at the top. Both ways must run at the same angle as the back of the seat.
4. A horizontal bar must be welded at both ends between the seat verticals behind the seat and be placed about half way between the main frame and the top of the cage. At least one diagonal bar must also be welded at both ends and brace the seat verticals to the horizontal bar behind the seat.
5. At least a 15" square opening must be over the driver within the roll cage.
6. Roll cage must have a rear down tube on both sides welded to the roll cage on one end at least 50% up from the bottom frame and attached to the main frame near the back axle on the opposite end.
7. Roll cage must have 2 forward down tubes that attach to the main frame.
8. Roll cage must have a horizontal dash bar welded to both front down tubes and weld on each end to the side crash bars.
9. Side crash bars must span from the center of the front wheel to the center of the rear wheel and stay inside the body. Side crash bars must also weld to the main frame or roll cage in at least 4 places. At least 1 of the 4 weld points must be a door bar that welds to the crash bar on one end and to the main frame on the other end placed beside the driver's seat on each side.
10. All cars must have 4, 5/16" minimum vertical metal bars spaced evenly across the opening between the front down tubes attached to the front down tubes securely, by weld or bolts with lock nuts.

Main Frame Construction

1. Wheelbase 45" to 51" Maximum width (outside tires) 42"
2. Main frame must be made of 1" steel tubing .083" minimum.
3. All main frame tubing must be inside the body, this not include the upper

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Wedge Inspection:

1. MWRA officials will visually inspect cars.
2. If an official decides that your car or part of your car is illegal or unsafe, you will be asked to fix it prior to racing it. Any MINOR infraction you are asked to fix MUST be taken care of before your next MWRA race.
3. Hydraulic brakes must be in proper working order.
4. Power transmitted by centrifugal clutch, drum or disc. No variable belts or pulley systems. Must use chain guard and engine must stay behind driver's seat.
5. Fuel Tank Requirements: remote mounted fuel tank MANDATORY due to stock tank breakage fuel tank must be located in a safe location outside of the drivers cock pit, behind the driver and inside the profile of the frame and roll cage, pulse type fuel pump allowed. **Tank must have a top suction pick-up tube** and should have an in-line filter between tank and carb. Remote tank can be plastic or aluminum and must have a rollover leak prevention set up. **NO BOTTOM DRAIN FUEL TANKS , Carburetor fuel supply must be from a pick up tube exiting the top of the tank. Any threaded holes on the bottom must be plugged.**
6. The fuel tank must remain inside the profile of the roll cage and main frame in case of a roll over. It must be a top pickup tube design and securely fastened with a built in bracket and/or bolted to a bracket made of at least .060" aluminum. **DUCT TAPE, ZIP TIES AND HOSE CLAMPS WILL NOT BE ALLOWED AS THE MEANS OF HOLDING THE TANK TO THE CAR.**
7. Car numbers must be at least 12" tall on both sides and be of sharp contrast to the body color. We recommend that you display a car number of the front and rear at least 8"tall for scoring purposes. If the number can't be read, you may not be scored properly.

Motor Inspection:

1. MWRA tech inspectors may do a motor "tear down" on any mini-wedge he/she chooses, at any MWRA event. MWRA officials will be trained to perform a complete motor tech. Inspectors are not responsible for reassembling engines after inspection.
2. If the inspector rules that your motor or part of your motor is illegal, you will be disqualified. The inspector's decision is final.
3. If you have any question about your motor being legal, YOU need to have it checked. It is your responsibility to make sure that your motor is legal. A brand new (out of the box) motor does not make it legal. There are variances in the manufacturing processes.
4. Any participant, car and/or motor may be inspected anytime, at any track, regardless of their race results.
5. All tech procedures are done using MWRA tech gauges, not the racer's gauges.
6. The tech inspector may tear down a motor as far as he/she deems necessary.

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half of the roll cage.

4. No part of the chassis will have a tube protruding beyond 2" measured from the closest weld joint anywhere on the chassis.
5. All cars must have a nerf bar or other adequate side protection made ¾" tubing .083" min or 1" .065 min on each side. Same dimensions for mandatory front and rear bumpers. All nerfs and bumpers must be perpendicular to the ground, no leaning forward or back and each must have at least a 6" tall loop welded to them 18" long, either bolted or welded to the main frame. No straight pieces of tubing protruding from any part of the bumpers.
6. Engine must be mounted behind the seat, no part of the engine can be beside the seat.
7. Control pedals must stay behind the front down tubes and securely mounted to the frame or skid plate. NO DUCT TAPE, ZIP TIES, OR HOSE CLAMPS ALLOWED IN THE CONSTRUCTION OF THE PEDALS-ANY PEDAL EXTENSIONS MUST BE SOLID METAL CONSTRUCTION !!!
8. Seat mounts must be made from tubing or 3/16" plate welded to the main frame or roll cage, 4 mounting points on the seat.
9. Lead ballast weight must be bolted to the main frame or the seat securely with lock nuts and bolts, no tape, zip ties, bungees, hose clamps, etc. They need to be painted white with the car number written permanently on the lead. NO MORE THAN 5lbs. IN A SINGLE LOCATION WITH A MINIMUM OF ONE 3/8" GRADE 8 BOLT PER 5 lbs.
10. Cars must use an aluminum racing style, high back seat, with padding, mandatory. A structural head restraint bolted or welded to the seat is required and must include plate aluminum, or tubing welded to the head restraint to prevent being bent. Full containment seats include a head restraint and will be accepted.
11. Car must use a one piece rear axle 1.25" diameter recommended aluminum or steel and must use snap rings on each end. No one wheel spin hub designs or ratcheting wheel hubs allowed.
12. Cars must use a one piece rear axle that bolts directly to the main frame, like what is used on modern racing flat karts.
13. A single non adjustable, non-rebuildable,steel body shock and single spring may be used on the rear . Rear down tubes must still be present.
14. Cars must maintain a 2" ground clearance.
15. Open tire rule, tires max size 11-6x6, tires must remain inside the body, no exceptions. Wheels no wider than 6 1/2" will be allowed, (outside of the rim measures 7") and Burris SS22 or Hoosier D20a will be the only 2 compounds, this will align our rules with neighboring wedge sanctioning bodies.

2nd offense- Suspension of kart/driver individual is affiliated with for remainder of the season.

Race Rules

Younger Division class weight #315 Older Division class weight #345

Tyler County Speedway mandates that you use Yellow Transponders , and Race Receivers. MK speedway requires race recievers.

1. A PARENT, GRANDPARENT or LEGAL GUARDIAN must accompany all drivers. Unless you are appointed his/her legal guardian, by law, you cannot sign a release form for them. Therefore, they cannot race. Any exception to this rule cannot be made by an MWRA official and must be brought before the track's management or tracks insurance carrier for a decision.
2. All cars will be lined up according to their pill draw. Failure to draw a pill before the lineup is turned into the track officials will result in the driver starting at the tail of the heat.
3. You need to know when you will be racing. Allow plenty of time to prepare the driver (buckling up, suiting up, etc.)
4. MWRA officials are not responsible for each driver and ensuring that they are prepared to race. Be prepared to race at a moment's notice! Each team is expected to attend pre-race drivers meetings.
5. Track officials in the scoring tower will make all scoring and judgment calls. Their decisions are FINAL.
6. Age limit is 6-10 years (youth); 10-15 years (senior).
7. A 10 year old driver with 1 year prior wedge experience, can pick either youth or senior division, if a racer is a new rookie at age 10, they must race 1 year in the youth division.
8. You must provide a copy of your birth certificate before your first race at registration.
9. Age is determined at the beginning of the racing season.
10. 10 year old racers will not be allowed to change divisions after their first race.
11. If a motor change is necessary after the heat race, you must "tag tail" in the feature race.
12. In cases where a cart is being driven by anyone other than the registered driver of that cart (substitute driver) points are given to the substitute driver. The substitute driver's number must be placed on the cart that he/she is driving. They must also pay a membership fee.

Roll Cage and Frame Rules

Most cars up to this point have been made of steel tubing known as "electro-weld." For the most part these cars have stood up well, but as race teams progress on safety and