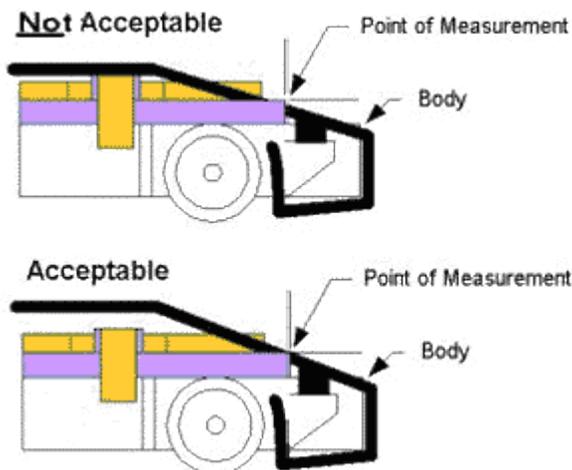


MVHORA Skinny Fray Rules

BODY RULES

- 1) The body must be a copy of a 1:1 car and/or concept car.
- 2) Bodies must be manufactured by either the process of casting or injection molding and be made from resin or plastic. No feather light resin allowed.
- 3) Bodies with cast-in handling pans or exaggerated details (such as unrealistic or inappropriate hood scoops, oversized windows, side pipes, sloped sides, or snow plow noses) are not allowed.
- 4) Bodies must be originally manufactured with the intention of being mounted with the use of 2 screws via 2 body mounting posts on an Aurora Model Motoring (Vibrator, Thunderjet, Wild Ones, Tough Ones, and Xlerators), Bachmann, Faller, Model Motoring Thunderplus, Marx, Eldon or Tyco S series HO chassis.
- 5) No Indy, Formula 1 or Formula style open wheel bodies allowed.
- 6) No ballast or fillers other than color pigment allowed.
- 7) Maximum overall body width is 1.200".
- 8) The maximum thickness of the sides of the body (including fender flares and running boards) is .125".
- 9) With the body mounted to the chassis and viewed from above, the body must cover the chassis except through windows and vents. Unrealistic or overly large windows and vents are not allowed.
- 10) With the body mounted to the chassis and viewed from the side, the top rear edge of the gear plate (minus rail) cannot be above the body profile (see diagram below).



- 11) The body must be fitted with the manufacturer's original or exact replica bumpers, roll bars, etc. in their stock locations.
- 12) Cracked or broken body mounting posts may be repaired or replaced with the use of glue or a plastic sleeve around the original post or a plastic tube in place of the broken post.
- 13) Other than the plastic post reinforcements stated in body rule #12, no additional weight can be

added to the body.

14) The body may be lowered and lightened by removing material through the process of grinding or scraping as long as body rule #10 is not violated. The body cannot be heated or reshaped from its original casting.

15) Bodies that have a separate roof and/or windshield and have molded-in interiors may have the interior portion completely removed.

16) Front and rear wheel wells may be opened up for tire clearance. This opening may be no larger than 1/8" around entire wheel well.

17) Wheel wells must not be modified in such a way as to allow the use of a wheelbase not originally intended by the body manufacturer.

18) Any body mounting screw may be used. Non-magnetic screws are recommended so a passing car will not pick up a loose screw, thus causing damage to the car and/or track.

19) Both front and rear screws must be used and must secure the body to the chassis at all times.

20) The windshield must be plastic or resin and must fill the window frame. Tape windshields not allowed. Side and/or rear windows may be removed.

CHASSIS RULES

1. Chassis must be stock T-jet copper. Bending of motor brush springs is allowed. No other chassis modifications are allowed.

2. Removal of gear plate rail is permitted, patent number must be legible. No other cutting, grinding, or drilling of chassis, gear plate, or gear plate clamp is permitted.

3. Solder or glue is allowed to attach gears to shafts.

4. The cluster shaft shall be stock (steel).

5. Only stock or commercially available 14-tooth "armature" gears are allowed.

6. Only stock or commercially available 24-tooth brass idler and driven gears are allowed.

7. Only stock or commercially available 9-tooth rear end (final drive) pinion gears are allowed.

8. Only stock or commercially available 15-tooth crown gears are allowed. The crown gear boss may be trimmed or spacers may be added between the chassis and gear to adjust for proper gear mesh.

9. Gears may be polished to provide a smooth mesh. Drilled, grooved, chamfered, or lightened gears are not allowed.

10. Guide pins must be either stock black Aurora or mass-produced molded plastic guide pins. Pin length may be shortened. No rear or swivel guide pins permitted. Gluing of guide pins to chassis and countersinking of the guide pin screw hole are permitted.

11. Cars must use original stock, reproduction stock, or narrow double-flanged plastic T-jet rim mounted any magnetic steel axle. The width of the chassis must be no wider than 1.085 inches,

measured at the outside edges of the rims.

12. Front Rims may be equipped with rubber, silicone or plastic tires, RTHO delrin independent front ends allowed. Maximum tire width is 0.100". Minimum front tire diameter is 0.325". Rear Tires may be JL/ NOS rubber tires or slip-on silicon. Minimum rear tire diameter is 0.355". Tires may not easily rotate independently from the rims. Tire/Rim lubricant may not be used.

13. RTHO delrin independent front ends allowed. Maximum front axle lateral movement is 1/32" (0.03125"). Non-metallic (i.e. plastic or phenolic) flat washer type spacers with a maximum diameter of 3/16" (0.1875") may be used on the front axle only to limit lateral movement. All spacers must be located outside of the chassis. Wheel weights and/or hubcaps are not allowed.

14. Front axle may be located in any stock wheelbase position. The center (truck) position must not be used.

15. Any original Aurora pancake style "armature" with no more than two "stack" gray laminations and with all of its original windings "unmodified" may be used and may be balanced. (No stock-replacement, dewind, rewind, turned or epoxy coated motors are allowed).

16. The average "armature" pole resistance as measured from pole to pole must be equal to or exceed 16.0 ohms at ambient room temperature following a 5-minute cool down.

17. Any ceramic magnets allowed. Magnets must not be cut, drilled, or sanded.

18. Magnets may not be shimmed.

19. Any and only copper/carbon brushes, flat top and bottom, are allowed. The brushes may be lightly scored in a maximum of two places (X pattern) to prevent rotation.

20. Pickup shoes and springs must be stock copper T-jet or stock replacement. (Aurora, American Line, or Slot Tech BSRT 504) No weights, wires, or creative bends allowed. Pick up shoe travel may be limited. Ski shoes are not allowed.

21. The "step" in the pick-up shoe must remain intact and be unaltered, except for only that the first bend may be changed slightly so that proper "pick-up shoe" to "rail" contact can be achieved. No attempts to "flatten" the "step" are allowed. The area between bend 1 and bend 2 may be "flattened" to achieve better contact with the "rails". The front, vertical, slotted portion of the pick-up shoe may be bent to limit shoe travel. The rear, hook portion of the pick-up shoe may be bent to limit shoe travel and adjust shoe tension. Heat shrink tubing may be placed on the front, vertical, slotted portion of the shoe, prior to Bend 1, to limit shoe travel.

22.. The chassis' copper pickup retainer may be bent slightly to improve electrical contact.

23. Pickup springs may be cut, crushed or lengthened. Washers or spacers shall not be used to adjust spring tension.