

National Hot Rod Association

Funny Car Body Acceptance Process and Specifications

NHRA Technical Services

Last Revision 5/10/2023



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Wording additions are <u>Blue underline</u>

Wording deletions are Red strikethrough

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Acceptance Process

1.1. Policies

- 1.1.1. All communications during the process will not be considered official unless it is stated in writing by the NHRA or the manufacturer.
- 1.1.2. At any time during the process the NHRA reserves the right to accept or deny the body based upon the information that is submitted.
- 1.1.3. At any time during the acceptance process should the design, configuration, dimensions/tolerances, material, or manufacturing processes of the body change; the NHRA must be notified in writing immediately.
- 1.1.4. NHRA rules may be added, deleted and/or amended at any time during the process that might affect the design, configuration, dimensions/tolerances, or material of the submitted body.
 - 1.1.4.1. It is the manufacturer's responsibility to stay abreast of all NHRA rule changes that may affect the submitted component(s).
- 1.1.5. Throughout this process the NHRA will make every reasonable effort to provide timely responses to questions and to provide timely approvals or denials to the various steps but makes no promises that components will receive final approval in time to start a given race season.
- 1.1.6. All costs incurred by the NHRA throughout the body acceptance process will be the manufacturer's responsibility. (i.e. all travel expenses, body scanning, etc.)

1.2. Submittal of Letter of Intent

- 1.2.1. Outline the intent of the manufacturer as to what model of body they wish to have available for use in competition.
 - 1.2.1.1. Clarification should include if it is for a new body concept or changes to an existing body design.
 - 1.2.1.2. If the request is for changes in a current existing body design, please skip to section 1.4. Submittal of Body

Design Package, after 1.2.5. is completed.

- 1.2.2. Outline any design restrictions on said body that are set forth in this document.
- 1.2.3. Must be submitted to Glen Gray at ggray@nhra.com no later than **June 1st of the year prior** to the year the body is intended for use in competition.
 - 1.2.3.1. (For example: a body intended to be used in competition in <u>2023</u> must have a Letter of Intent submitted no later than June 1, <u>2022</u>.)
- 1.2.4. Once received, the Letter of Intent will be submitted to the appropriate NHRA committee(s) after which a written decision will be provided from NHRA indicating Pre-Approval or Denial.
- 1.2.5. If the manufacturer receives written pre-approval of the submitted Letter of Intent from the NHRA, the manufacturer can then begin the submittal of a OEM production stock body.

1.3. Submittal of OEM Production Stock Body

- 1.3.1. An OEM production vehicle of the model to be used must be located and made available to an NHRA Technical Services representative. A representative will take all necessary measurements, photos, gather literature and obtain other information needed for acceptance criteria.
- 1.3.2. Measurements from the OEM production vehicle will be forwarded to the party requesting acceptance, along with standard, acceptable tolerances.



1.3.3. Once the submitted OEM production vehicle is inspected and all measurements are agreed upon, the manufacturer or appointed representative may begin with the Body Concept Design Package.

1.4. Submittal of Body Concept Design Package

- 1.4.1. Design Package should include CAD drawings with dimensions.
 - 1.4.1.1. Manufacturer may also request an online CAD review.
- 1.4.2. If this request is for a modification(s) to an existing body, please provide detailed photographs of the affected area.
- 1.4.3. Must be submitted to Glen Gray at ggray@nhra.com no later than <u>August 1st of the year prior</u> to the year the body is intended for use in competition.
 - 1.4.3.1. (For example: a body intended to be used in competition in <u>2023</u> must have a Detailed Body Concept Design Package submitted no later than August 1, <u>2022</u>).
- 1.4.4. Once received, the Body Concept Design Package will be submitted to the appropriate NHRA committee(s) after which a written decision will be provided indicating Pre-Approval or Denial.
- 1.4.5. If the manufacturer receives written pre-approval on the submitted Body Concept Design Package from the NHRA, the manufacturer can then begin to build a prototype plug based upon the original information submitted.

1.5. Submittal of Plug

- 1.5.1. Once the prototype plug is completed, it must be submitted to the NHRA for inspection.
- 1.5.2. The plug review must take place no later than <u>October 1st of the year prior</u> to the year the body is intended for use in competition
 - 1.5.2.1. (For example: a prototype body intended to be used in competition in <u>2023</u> must be made available for review no later than October 1, <u>2022</u>).
- 1.5.3. NHRA Technical Department will need to inspect the plug.
 - 1.5.3.1. Scheduling of the body review must be made through Glen Gray at ggray@nhra.com.
- 1.5.4. Once available, the plug will be reviewed by the appropriate NHRA committee(s) after which a written decision will be provided indicating Pre-Approval or Denial.
- 1.5.5. If the manufacturer receives written pre-approval on the submitted plug from the NHRA, the manufacturer can then begin to build a final production body.

1.6. Submittal of Final Production Body Design Package and Race Ready Body

- 1.6.1. This Final Production Body Design Package should contain but is not limited to the following:
 - 1.6.1.1. Production component(s)
 - 1.6.1.2. Component availability date
 - 1.6.1.3. Any part number(s) for components
 - 1.6.1.4. Any approved drawings, if modified in any manner from those originally submitted.
- 1.6.2. A Final Production Body Design Package and a race ready production body must be submitted to the NHRA no later
 - than **December 1st of the year prior** to when the body is intended for use in competition.
 - 1.6.2.1. (For example: a production body intended to be used in competition in <u>2023</u> must be submitted no later than December 1, <u>2022</u>).
- 1.6.3. NHRA Technical Department will need to inspect the first production body.



- 1.6.4. Scheduling of the first production body review must be made through Glen Gray at ggray@nhra.com.
- 1.6.5. Once final approval has been provided by the NHRA, should the design, configuration, dimensions/tolerances, material, weight or manufacturing process(es) of the approved body change; the NHRA technical department must be notified in writing prior to the modified component being run in NHRA competition.
- 1.6.6. Once the approved body has been assembled and is race ready on a chassis, it will need to be inspected, at the race shop, by the NHRA Technical Department.
- 1.6.7. After the NHRA has had ample time to review the final package, a written decision of "Final Approval or Denial" will be provided.
 - 1.6.7.1. Approval, if granted, is valid only if such approval is granted in writing and signed by an NHRA official.



2. Specifications

ALL ITEMS LISTED IN SECTION 2 ARE A REQUIREMENT OF THE BODY.

Any modification that is not listed in SECTION 2 is prohibited unless approved in advance by the NHRA Technical Department in writing.

2.1. Body Blueprint

• <u>Design</u>

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- 2000 or later model-year coupe or sedan body meeting the requirements below:
 - Originally mass-produced by automobile manufacturer (domestic or foreign).
 - OEM production vehicle must have originally measured 63.000" wide or more at centerline of front and rear axle.
- o Body contours must resemble same configuration and design of the specific OEM production body used.
- Body may be lengthened or shortened from OEM production vehicle.
- Must be equipped with a simulated grille of same configuration and design for specific body used.
- Headlight and taillight beltline moldings (if on OEM production vehicle) or indentations must be incorporated into body.
 - Must be painted or decaled to simulate the OEM production vehicle appearance and configuration.

<u>Construction</u>

- Body may only be constructed with carbon fiber.
- Body tree framing must be a permanent fixture.
 - Must be 4130 steel or titanium.
 - Vertical mounts that attach to chassis can be adjustable for ground clearance.
- All bolts and fasteners on body, windows, etc. must have heads towards outside of body.
- <u>Measurements</u>
 - Side contour inset depth: 2.000" maximum
 - Taken vertically from lower rocker to edge of shelf.
 - Measurement points taken anywhere along entire side of body.
 - Radius on edge of sides and bumper shelf: .375" minimum
 - Deck area between spill plates has no minimum radius.
 - Shelf width at lower rear corner of side window: 6.000" minimum.

2.2. Body Burst Panel

- <u>Design</u>
 - 2 tethers required per each body burst panel.
 - Example; if two separate panels are used, a total of 4 tethers are required, 2 per panel.
 - NHRA-accepted tether: Amick Race Car Restraints JF-101.
 - (#33) Burst panel(s)total square inches: 288 in² minimum
 - Must be installed with body doublers at the burst panel mounting points.
 - Only one tie wrap per connection point.
 - Maximum connection points: 6
- <u>Construction</u>
 - Secured with plastic screws or tie wraps width: .125" maximum
- <u>Measurements</u>
 - Clear tape width: 3.000" maximum
 - Taping of body burst panel permitted on any side(s).



2.3. Body Doublers

- <u>Design</u>
 - A minimum of 6 (3 per side) doubler must be utilized on the mounting tree attachment points connecting the main saddle support structure to the body forward of the 'A' pillar.
 - Must be utilized on all mounting tree attachment points located from the firewall forward.

2.4. Body Tethers

- Design
 - o Part Number: Amick Tether FC-1211-2 mandatory
 - One tether per side
 - Loop-Through defined as the length where the tether is woven back through itself
 - Loop-Through minimum: 4.500"
 - Loop-Through maximum: 6.000"
 - Secondary device must prevent loosening due to vibration
 - Tether must be taut
 - Tether may be routed a minimal amount to avoid tires and/or other components
 - Tether Mounting Points
 - May not be mounted through flat plate
 - Tear-out around mounting hole must be 1.5 times hole diameter
 - o Inner Firewall Mounting Pads
 - 2 separate mounting pads mandatory
 - Attachment points: 3 minimum per side
 - One each at side of body, top of body, and firewall
 - May be square or round
 - Outer Body Doublers
 - Single piece design
 - Firewall Doubler
 - Must be bonded to firewall
- <u>Construction</u>

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- o Inner Firewall Mounting Pads
 - Pad material: Steel or Titanium mandatory
 - Pad diameter: 3.000" minimum
 - Pad thickness: .0625" minimum
 - Screws per pad: (4) steel 10-32 minimum
 - Nuts per pad: (4) steel minimum
- o Outer Body Doublers
 - Doubler material: Carbon .090" minimum
 - Doubler diameter: 3.375" minimum
 - Or .375" larger than inner pad around perimeter
 - Doubler corner radius .500" minimum
 - Must be scalloped (see drawings)





- o Firewall Doubler
 - Aluminum doubler material: .050" minimum
 - Carbon doubler material: .090: minimum
 - Doubler diameter: 3.375" minimum
 - Or .375" larger than inner pad around perimeter
 - Doubler corner radius .500" minimum
 - Must be scalloped (see drawings)
 - Diameter: .500" minimum
 - Thickness: .049" minimum





2.5. Body Widths

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- A-Pillar Widths
 - (#6) Widest point below A-Pillar: 68.750" maximum
 - (#7) Width at A-pillar: 48.875" minimum
- <u>B-Pillar Widths</u>
 - o (#10) Width at B-pillar: 49.625" minimum
 - (#11) Widest point below B-Pillar: 70.000" maximum
- Taillight Area
 - o (#16) Width below: 68.500" minimum: 69.500" maximum
- Front Wheel Well
 - o Variation from front wheel well to rear wheel well at centerline: 6.000" maximum
 - o (#2) Front: 70.250" maximum
 - (#3) Centerline: 60.000" minimum
 - 68.375" maximum or OEM measurement (whichever is greater)
 - (#4) Rear: 64.875" minimum
- Rear Wheel Well
 - (#13) Front: 71.875" maximum
 - o (#14) Centerline: 60.000" minimum
 - 69.500" maximum or OEM measurement (whichever is greater)
 - o (#15) Rear: 67.750" minimum: 68.750" maximum
- <u>Roof</u>
 - o (#12) Width: 32.000" minimum
 - Hardtop OEM production vehicle: Upper rear corner of side window.
 - Sedan OEM production vehicle: Body line above upper rear corner of side window.
- <u>Windshield</u>
 - o (#5) Lower windshield width: 38.375" minimum



• (#8) Upper windshield width: 27.500" minimum

2.6. Bumper

- <u>Design</u>
 - Bodies will be clean of bumper roll pans or any other component(s) that are in NHRA's determination unnecessary to the normal mounting tubing, firewall, and driver enclosure.
 - Must incorporate a 1.000" minimum inset from the outer edge of body for parachute mounting.
- <u>Measurements</u>
 - (#22) Parachute shroud lines cutout dimensions: 4.000" x 30.000" maximum
 - (#21) Rear bumper vertical surface: 3.000" minimum
 - (#42) Trailing edge of bumper to ground: 29.500" maximum

2.7. Dash

- <u>Construction</u>
 - Aluminum or steel only.
 - Aluminum thickness: .040" minimum
 - Dash and firewall may be one piece, thickness: .050" minimum

2.8. Deck

- <u>Design</u>
 - Side surfaces of elevated decks must be completely covered by spoiler spill plates.
 - Deck area must be a flat.
 - Deck longitudinal area is defined from the leading edge of spill plates to rearward edge of body (excluding spoiler/spill plate assemblies).
 - Deck lateral area is defined from the inside area between the two spill plates (excluding greenhouse/rear window sections).
 - Deck vertical distance is defined from **any** combination of longitudinal and lateral points compared to the tallest area of the body located within the outside edge of the spill plates.

Measurements

- o (#18) Deck area between spill plates may be lowered from the body outside spill plates: 1.750" maximum.
- o (#49) Deck length: 12.000" minimum

2.9. Escape Hatch

- Design
 - Installed on top of roof.
 - Must be hinged along the front edge.
 - Must incorporate, in the rear portion of the roof hatch, a handhold for emergency release.
 - See through escape hatches prohibited.
- <u>Measurements</u>
 - o (#27) Length: 17.000" minimum
 - (#28) Width: 18.000" minimum
- 2.10. Fender Wicker
 - <u>Design</u>
 - Must be mounted in line with wheel opening.
 - Only permitted on forward half of front wheel centerline.
 - Any flares added to the wheel openings that are not on the OEM production vehicle design will be considered part of the 1.500" front and 1.000" rear wheel fender wickers.
 - <u>Measurements</u>
 - Front fender: 1.500" maximum
 - Rear fender: 1.000" maximum



• Will not be considered in any body width measurements.

2.11. Firewall

- Design
 - Must overlap seams with the dash.
 - Fire windows must be installed in the vicinity of the valve covers.
- <u>Construction</u>
 - Firewall windows must be laminated safety glass, e.g. Lexan or Plex 70.
 - Must be aluminum or steel.
 - Aluminum thickness: .050" minimum
 - Dash and firewall may be one piece: .050" minimum thickness.
 - Screws: 8-32 minimum
 - Nuts: Aluminum only
 - Must use staggered double row of screws to secure the two together.
 - Maximum distance from center to center: 2.000"
 - Distance from center of hole to edge of panel: .750"
 - Washers:.7500" diameter x .125" thick billet minimum
- <u>Measurements</u>
 - Firewall height from body rocker: 15.000" maximum
 - o Distance from top of bellhousing shroud cutout to "V" of firewall: 6.000" minimum
 - Vertical portion of firewall must be within 1 degree of motor plate angle.
 - If the bottom of the firewall has a rearward facing radius of 5.000" or more;
 - A .500" tall by 4.000" deep diffuser must run the full length of the radius
 - Must be installed no more than 1.000" from the apex of the initial radius.
 - The rear brake point of the lower radius cannot exceed 12.000" from the vertical portion of the firewall.
 - Fire windows square inches: $25 \text{ in}^2 \text{ maximum}$

2.12. Front Release Handles

- <u>Design</u>
 - o Two independent latch assembly's mandatory
 - Handle Vertical when Locked (Closed)
 - Counterclockwise 45 degree to Unlock (Open)
 - o Minimum 4.000" section of handle must have 1.500" clearance between handle and body
 - o Latch Mount Face Plate
 - Vertical Spread: 10.000" minimum
 - Width: 2.000" minimum
 - Body Outer Doubler
 - Cannot be countersunk unless in used with Tinnerman washer
 - o Latch Tube Bar
 - Must be in double shear
 - Minimum engagement: .500"
 - Filled Latch Tube
 - Must extend from rear of latch to forward a minimum of 4.000"
 - Or to key slot, whichever comes first.
 - Plug must be securely attached to the tube (e.g. roll pins, tack weld, etc.)
- <u>Construction</u>
 - Streamline aero major axis minimum: 0.750"
 - Streamline aero major axis maximum: 2.360"



- o Body Outer Doubler
 - Carbon Doubler material: .090" minimum
 - Screws per pad: 6 total (3) top (3) bottom
 - Screws: steel 10-32 minimum
 - Screws: All with hard spots
 - Doubler diameter: .325" larger than inner plate around perimeter
 - Doubler corner radius: .500" minimum
- Single Rib Gusset
 - Aluminum face plate thickness: .1875" minimum
 - Steel/ Titanium face plate thickness: .125" minimum
- Double Channel Gusset
 - Aluminum face plate thickness: .125" minimum
 - Steel/ Titanium face plate thickness: .0625" minimum
 - Aluminum face plate thickness: .1875" minimum
 - Steel/ Titanium face plate thickness: .125" minimum
- Solid Latch Tube/ Bar
 - Titanium outer diameter: .500" minimum
 - Aluminum outer diameter: .875" minimum
- Filled Latch Tube
 - Titanium/ 4130 CM outer diameter: .875" minimum
 - Fill tube material: Titanium, Steel, Aluminum only
- Measurements
 - Latch Assembly Length Minimum: 5.000"
 - Latch Assembly Length Maximum: 7.000"
 - Overhang from front of forward most wheel centerline: 40.000" maximum

2.13. Ground Clearance

- <u>Measurements</u>
 - o (#37) 12.000" behind front wheel well centerline to front of vehicle: 3.000" minimum
 - o (#38) 12.000" behind front wheel well centerline to rear or vehicle: 2.000" minimum
 - If utilizing body mount springs, the body may exceed the minimum ground clearance rules, only during the run, leaving a minimum of 1.500" of ground clearance on the front of the body.

2.14. Header Flange

- <u>Measurements</u>
 - Header Flange Lip Whichever is less;
 - As wide as body
 - 1.000" maximum lip
- Modifications
 - Modifications to header clearance permitted if authorized in advance by the NHRA Tech Department.
- $2.15.\,\textbf{Hood}$
 - <u>Design</u>
 - Hood cowl may not be wider than base of A-pillar.
 - Injector must protrude through hood.
 - Hood scoops prohibited.
 - Blower wicker must be installed 90 degrees to the body.
 - Blower wicker must be a flat surface (no humps).
 - Measurements
 - (#32) Hood cowl height: 5.000" maximum



- Blower wicker permitted on all sides of opening.
 - Height: 1.000" maximum
- (#34) Blower opening width: 26.000" maximum
- Clearance for throttle linkage 2.500" minimum
 - Clearance not included in the blower opening measurement.

2.16. Overhangs

- <u>Measurements</u>
 - (#1) Front body overhang from front axle centerline: 40.000" maximum
 - \circ (#19) Rear bumper overhang from rear axle centerline: 54.000" maximum
 - (#20) Spill plates rear overhang from centerline of rear axle: 60.000" maximum
 - \circ (#43) Rear spoiler from centerline of rear axle: 56.000" maximum

2.17. Prohibited Modifications

- <u>Design</u>
 - Any air holes for passages not described in this document.
 - Any modification to body not described in this document.
 - Underbody streamlining.
 - Ground effects of any description for example:
 - Rocker skirts
 - Belly pans
 - Sheet metal work under the body
 - Forward coving of the firewall (radius lip that goes forward)
 - Etc.
 - Vortex generators on body of car.
 - Temporary or permanent installment of blinders, staging aids, and shielding to obstruct the driver's vision.

2.18. Rear Release Mechanism

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- <u>Design</u>
 - Must be T-handle design unobstructed and easily visible.
 - Must be pin and cable type.
 - Rear saddle hooks must be a closed design (see red outline in picture)
 - 0
 - Pin's must be prevented from coming out of saddle without manually pulling the T-handle.



- <u>Construction</u>
 - Pin diameter: .375" minimum
 - Release handle must be colored red.
 - Rear saddle brackets must use .5625" or .500" hex-style bolt heads.
 - .500" hex-style bolt heads must be clearly marked red.



• <u>Measurements</u>

- Clearance from any other opening: 3.000" minimum
- Length of T-handle: 3.000" minimum

2.19. Rear Window

- <u>Design</u>
 - Angle from OEM production vehicle: 3 degrees maximum
 - Must follow contour of the body.
 - Rear window must be defined by actual route line in body and painted or decaled to simulate glass.
- <u>Measurements</u>
 - (#25) Rear window length: determined per model
- <u>Modifications</u>
 - 0
 - Drilling or cutting the rear window for air passage prohibited.

2.20. **Roof**

- <u>Measurement</u>
 - Maximum roof width cannot exceed OEM production vehicle dimensions.
 - (#9) Roof height from ground: 56.625" maximum
 - (#26) Length of roof: +/-4.000" from OEM production vehicle
- <u>Modifications</u>
 - Complete removal of roof prohibited.

2.21. Rub Bar/ Splitter

- Design
 - Cannot extend beyond the inside of the body line.
 - Can only be installed forward of the front wheel centerline.
 - The front leading edge of the rub bar must have a taper, chamfered, fillet, or beveled edge.
- <u>Measurements</u>
 - ⊖ Thickness: .500" maximum
 - <u>Thickness: 1.00" maximum</u>
 - o Thickness: .250" minimum

2.22. SFI 54.1 Flame Retardant Covering

- <u>Design</u>
 - Mandatory on underside of body, including any roof area.
 - Must be applied to manufacturer's instructions.

2.23. Side Windows

- Design
 - Must have a circular opening on both side windows.
- <u>Construction</u>
 - Must be clear material.
 - Must be clear without tinting or coloring.
- <u>Measurements</u>
 - o (#29) Window circular opening diameter: 6.000" minimum
 - o (#30) Window height may be shortened from OEM production vehicle: 2.000" maximum
 - Or minimum height of window: 14.000" (whichever is greater)
 - (#48) Window length:
 - 4 door: 24.500" minimum
 - 2 door: 25.750" minimum



• <u>Modifications</u>

- Side windows limited to driver's name, car number, class designation, and decals only.
- Paint scheme may not extend onto side windows.
- Decals may not completely cover side windows.
- Outer edge of windows cannot be covered.

2.24. Spill Plates

- <u>Design</u>
 - \circ $\;$ Must be approved in advance before running by the NHRA Tech Department.
 - Must be vertical planes running parallel to the car.
 - Inner support plates between spill plates: Two maximum
 - Must be in same orientation as spill plates.
 - Must be parallel to each other along entire surface.
 - Cannot be placed forward of rear axle centerline
 - Support Brackets must be attached to body deck and/or rear bumper.
 - Support bracket must be mounted near the center of the deck when installed.
 - Any spill plate stiffeners and support brackets must be placed on the inside of the body unless noted otherwise in this document.
 - Cannot be "built in" to body.
- <u>Construction</u>
 - Aluminum 6061: .090" minimum
 - Carbon fiber: .150" minimum
 - Attachment to body
 - Screws: 8-32 minimum
 - Nuts: Aluminum only
 - Washers: .750" x .028" minimum
 - Backup washer must be used on underside of body.
- <u>Measurements</u>
 - o (#24) Distance between outside edges of spill plates: 54.000" maximum
 - Distance between top of roof and top of spill plates, whichever is less;
 - (#36) 5.000" from roof to spill plates.
 - (#17) 60.500" from spill plates to ground.
 - Lip permitted only on trailing edge of spill plates: .500" maximum.
 - Allowed only on inside of outer spill plates.
 - Allowed on both sides of inner spill plates.
 - Inside Spill Plates are allowed to extend 3.00" below the trailing edge of the deck where its mounted.
 - Outside Spill Plates are allowed to extend 3.00" below from the tallest point of the area outside the spill plates between the rear axle centerline and trailing edge of the quarter panel.

2.25. Spill Plate/Spoiler Support Struts

- <u>Design</u>
 - When running parallel to spill plates, horizontal brace permitted.
 - When running diagonal, must be straight line.
 - Doublers required at all attachment points to body.
 - Any spoiler stiffeners and support brackets must be placed on the inside of the body unless noted otherwise in this document.
- <u>Construction</u>
 - Strut material: 4130 Steel
 - Strut diameter: .3125" minimum



- o Strut thickness: .035" minimum
- Steel attachment plate to body mandatory.
- Steel attachment plate to body thickness: .063" minimum
- Attachment plates screws (2): 10-32 minimum
- Attachment plates screws (3): 8-32 minimum
- Attachment plate nuts: aluminum minimum
- Steel doubler plate thickness: .028" minimum
- Steel doubler plate size: 2.000" x 2.000" minimum

2.26. Spoiler

- Design
 - May only be located behind the centerline of rear wheels.
 - Surfaces must be a continuous single curved plane.
 - Bumper spoiler supports permitted.
 - Any spoiler stiffeners and support brackets must be placed on the inside of the body unless noted otherwise in this document.
- <u>Construction</u>
 - Carbon fiber or aluminum mandatory.
- <u>Measurements</u>
 - \circ (#44) Distance between top of roof and top of spoiler, whichever is less;
 - 4.000" above roof.
 - Cannot be higher than top of spill plates.
 - Wicker on spoiler not to exceed 2.000" (going forwards and backwards)
 - If mounted rearward, wicker will be counted in overhang measurement.
- <u>Modifications</u>
 - Cannot be "built in" to body.
 - Vortex generators permitted on spoiler assembly only
 - Wickers permitted on spoiler assembly only.
 - Spoiler adjustment during run prohibited.
 - Putting the spoiler in a "wing" configuration is prohibited.
 - Any lips, notches, decks, or steps in the spoiler surface prohibited.
 - Airflow through the spoiler or through the underside prohibited.
 - An affixed (securely mounted) spoiler underlay is allowed to be sandwiched between the top of the deck lid and the Spoiler. Underlay may extend rearward simulating the contour of the spoiler but may not be angled less than parallel to the deck lid surface. Spoiler underlay is not allowed to extend further rearward than the rearward edge of the spoiler itself.
 - Additional spoiler mounting support may be added to reinforce the spoiler. If a spoiler support is utilized, it must not extend more than 2.000" past the rear edge of the deck. Supports located along the spill plates cannot be wider than .500".

2.27. Stiffening Lips

- Measurements
 - \circ (#35) Rear bumper: 1.000" maximum
 - (#35) Side rockers: 1.000" maximum
 - (#35) Rear quarter panels: 1.000" maximum
 - Rear bumper, side rockers, and rear quarter panels stiffening lips will not be incorporated in any body measurements.
 - o (#35) Entire front end: 1.000" maximum
 - Front end stiffening lips will be incorporated in the front overhang measurement.



2.28. Taillights

- <u>Design</u>
 - Airflow through hinged taillight area permitted.
 - Must be painted or decaled to simulate the OEM production vehicle appearance and configuration
 - May be hinged at top only.
 - Hinged openings must include the taillight.
 - (#23) Square inches per opening: $100 \text{ in}^2 \text{ maximum}$
 - Opening per side: 1 maximum
 - Number of flaps: 2 maximum
 - Flaps must be rectangular in shape.

2.29. Wheelbase

- Measurements
 - Variation from left to right: 2.000" maximum
 - o (#46 & #47) Longest side: 124.000" minimum: 125.000" maximum

2.30. Wheel Wells

- Design
 - Enclosing the wheel wells prohibited.
 - o Front and rear wheel well widths cannot exceed OEM production vehicle dimensions.
 - Usage of wheel fairings prohibited.
 - Front and rear wheel well must look to maintain OEM production vehicle radius and contour.
- <u>Measurements</u>
 - o (#39) Centerline of rear axle, vertically to wheel well opening: 8.000" minimum
 - o (#40) Centerline of rear axle to rear edge of rocker: 18.000" minimum
 - (#41) Centerline of front axle, vertically to wheel well opening: 5.000" minimum
 - Tire Clearance (taken from outside edge of tire to inside edge of body)
 - Front tire tread width clearance: 6.000" maximum
 - Rear tire tread width clearance: 3.000" maximum
 - Rear tire tread width clearance: 0.000" minimum
 - (#45) Lowest point of body at rear wheel well (behind centerline) to ground: 12.000" minimum
 - **Modifications**
 - Lower, rear corner of the front wheel opening for starting line timing lights permitted.
 - Any exposed edges or openings as a result of trimming, should be patched and refinished.

2.31. Windshield

- <u>Design</u>
 - Windshield mandatory.
 - Windshield angle from OEM production vehicle: 3 degrees maximum
 - Curvature from OEM production vehicle: 2.000" maximum
 - Must follow contour of the body.
 - Raised surface area from OEM production vehicle: .750" maximum
 - Measured at center of windshield from injector opening to roof.
 - Measurement continues across the entire contour of windshield.
 - Raised surface will be blended into rest of windshield.
 - Any windshield stiffeners and support brackets must be placed on the inside of the body unless noted otherwise in this document.
- <u>Construction</u>
 - Must be safety glass, e.g. Lexan or Plexiglas.
 - Windshields may not be attached with self-locking fastener buttons.



- Must be clear without tinting or coloring.
- Must be free from cracks and in good condition.
- Safety glass thickness: .125" minimum
- <u>Measurements</u>
 - (#31) Windshield length: determined per model
- <u>Modifications</u>
 - Drilling or cutting the windshield for air passage prohibited.



3. Body Inspection Sheet

2.

5.

- 3.1. Body Inspection Measurements
 - 1. Front Body Overhang
 - 40.000" maximum
 - Centerline of front wheels to leading edge of body.
 - Front Wheel Well Forward Width
 - 70.250" maximum
 - Outside edge of forward wheel well flare.
 - 3. <u>Front Wheel Well Centerline Width</u>
 - 60.000" minimum
 - 68.375" maximum or OEM production vehicle (whichever is greater)
 - Outside edge of wheel well flare at centerline of front wheels.
 - 4. Front Wheel Well Rearward Width
 - 64.875" minimum
 - Outside edge of rearward wheel well flare.
 - Lower Windshield Width
 - 38.375" minimum
 - Widest point of lower corner of windshield.
 - 6. <u>Widest Point Below A-Pillar</u>
 - 68.750" maximum
 - Widest point of side body directly below A-Pillar.
 - 7. <u>A-Pillar Base Width</u>
 - 48.875" minimum
 - Widest point of front lower corner of side window.
 - 8. <u>Upper Windshield Width</u>
 - 27.500" minimum
 - Widest point of upper corner of windshield.
 - 9. Roof Height
 - 56.625" maximum
 - Tallest point of roof.
 - 10. <u>B-Pillar Base Width</u>
 - 49.625" minimum
 - Widest point of rear lower corner of side window.
 - 11. Widest Point Below B-Pillar
 - 70.000" maximum
 - Widest point of side body directly below the B-Pillar.

- 12. Roof Width
 - 32.000" minimum
 - Hardtop OEM production vehicle: Upper rear corner of side window.
 - Sedan OEM production vehicle: Body line above upper rear corner of side window.
- 13. Rear Wheel Well Forward Width
 - 71.875" maximum
 - Outside edge of forward wheel well flare.
- 14. <u>Rear Wheel Well Centerline Width</u>
 - 60.000" minimum
 - 69.500" maximum or OEM production vehicle (whichever is greater)
 - Outside edge of wheel well flare at centerline of rear wheels.
- 15. <u>Rear Wheel Well Rearward Width</u>
 - 67.750" minimum: 68.750" maximum
 - Outside edge of rearward wheel well flare.
- 16. <u>Width of Body Below Taillights</u>
 - 68.500" minimum: 69.500" maximum
 - Widest point of side body when lined up with the taillights.
 - Measurement point is determined by the OEM production body.
 - If the OEM production body has a clear peak in the body style, that peak will be the location for the measurement.
 - If the OEM production body DOES NOT have a clear peak, the location will be taken within the top and bottom section of the taillight.

17. Spill Plate Height

- 5.000" above roof or 60.500" from ground (whichever is less)
 - Tallest point of spill plates.
- 18. Deck Area Offset Between Spill Plates
 - 1.750" maximum
 - Any point of deck area inside spill plates. Compared to the tallest point of the body outside the spill plates.



19. <u>Rear Bumper Overhang</u>

- 54.000" maximum
- Centerline of rear wheels to trailing edge of body.

20. Spill Plate Rear Overhang

- 60.000" maximum
- Centerline of rear wheels to trailing edge of spill plates.

21. <u>Bumper Vertical Surface</u>

- 3.000" minimum
- Stiffing lip in bumper measured vertically against the bumper surface.
- 22. Parachute Shroud Line Cutout
 - 4.000" x 30.000" maximum
 - Bumper measuring the vertical and horizontal cutouts.
- 23. <u>Hinged Taillight Openings</u>
 - 100 in² maximum
 - Taillight cutout in bumper.
- 24. Outside Spill Plate Width
 - 54.000" maximum
 - Front, center, and rear of spill plates going across outside edges.
 - Spill plates must be parallel to each other.
- 25. <u>Rear Window Length</u>
 - Determined per model
 - Centerline, going lengthwise of body, of rear window decal.
- 26. Roof Length
 - +/- 4.000" from OEM production vehicle
 - Top of front windshield to top of rear window decal.
- 27. Escape Hatch Length
 - 18.000" minimum
 - Across escape hatch length.
- 28. Escape Hatch Width
 - 17.000" minimum
 - Across escape hatch width.
- 29. Side Window Openings
 - 6.000" minimum
 - Diameter of openings in cutouts.
- 30. <u>Side Window Height</u>
 - Whichever is greater
 - - 2.000" maximum from OEM
 - production vehicle.
 - 14.000"

- Tallest point of side window.
- 31. Windshield Length
 - Determined per model
 - Lowest windshield corner near the injector opening to top of windshield.

32. Hood Cowl Height

- 5.000" maximum
- Measuring the tallest point of the cowl height to the hood surface area.
- 33. <u>Body Burst Panel(s)</u>
 - 288 in² minimum
 - All body burst panel openings are included in measurement.
- 34. Injector Opening Width
 - 26.000" maximum
 - Inside edge of opening, parallel to the front face of the injector.
- 35. <u>Stiffener Lip Around Body</u>
 - 1.000" maximum
 - Lips around quarter panels, rockers, front and rear bumpers.
- 36. Spill Plate Height Above/ Below Roof
 - 5.000" maximum
- 37. Ground Clearance Front
 - 3.000" minimum
 - 12.000" behind front wheel centerline going forwards.
- 38. Ground Clearance Sides
 - 2.000" minimum
 - 12.000" behind front wheel centerline going backwards.
- 39. Rear Axle Centerline to Body Height
 - 8.000" minimum
 - Centerline of rear axle going vertically to body.
- 40. <u>Rear Axle Centerline to Edge of Rocker</u>
 - 18.000" minimum
 - Centerline of rear axle going to bottom corner of rocker.
- 41. Front Axle Centerline to Body Height
 - 5.000" minimum
 - Centerline of front axle going vertically to body.
- 42. Bumper to Ground Height
 - 29.500" maximum
 - Bottom of bumper to ground.
 - Not including parachute cutout.



43. Spoiler Overhang

- 56.000" maximum
- Centerline of rear axle to trailing edge of furthest spoiler.
- Rearward spoiler wicker will be included in the measurement.
- 44. Spoiler Height
 - Distance between top of roof and top of spoiler, whichever is less;
 - 4.000" above roof.
 - Cannot be higher than top of spill plates.
- 45. <u>Lowest Point of Rear Wheel Well to Ground</u> <u>Height</u>
 - 12.000" minimum
 - Bottom corner of rear wheel well to ground.
- 46. <u>Wheelbase Left</u>

- Longest side: 124.000" minimum: 125.000" maximum
- Maximum offset from longest side: -2.000"

47. <u>Wheelbase Right</u>

- Longest side: 124.000" minimum: 125.000" maximum
- Maximum offset from longest side: 2.000" maximum

48. Side Window Length

- 4 Door: 24.500" minimum
- 2 Door: 25.750" minimum
- Measured along base of window.

49. Deck Length

- 12.000" minimum
- Measured from the rear most point of the greenhouse (back window) to the rear most point of the deck. The spoiler assembly is not considered in this measurement.

- 3.2. Printable Full Body Sheet
- 3.3. Printable Recheck Body Sheet



	Front Wheel	Rear Wheel Centerline	Rear Window Length	Roof Length	Side Window Height	Windshield Length
Body Year	Centerline					
	#3	#14	#25	#26	#30	#31
22'- New Supra	67.875"	67.875"	33.125"	46.375"	15.000"	25.375"
12'-21' Camry	68.250"	69.500"	32.000"	48.625"	14.750"	30.000"
16'- New Camaro	66.000"	69.250"	22.500"	53.750"	14.000"	22.375"
19'- New Charger	67.625"	70.250"	19.250"	53.375"	14.000"	31.000"
16'-18' Charger	68.125"	72.375"	19.375"	53.375"	14.000"	30.250"
10'-15' Charger	68.250"	72.625"	28.500"	63.875"	13.875"	30.250"
19'- New Mustang	68.000"	70.250"	32.250"	41.250"	15.000"	29.000"
15'-18' Mustang	68.250"	69.500"	37.250"	41.250"	16.000"	30.500"
09'-14' Mustang	68.375"	69.375"	46.000"	36.125"	15.375"	28.750"

#	Measurement	Requirement	Actual
1	Front Body Overhang	40.000" maximum	
2	Front Wheel Well Forward Width	70.250" maximum	
3	Front Wheel Well Centerline	60.000" min, 68.375" max (or OEM)*	
	Width		
4	<u>Front Wheel Well Rearward</u> Width	64.875" minimum	
5	Lower Windshield Width	38.375" min	
6	Widest Point Below A-Pillar	68.750" maximum	
7	A-Pillar Base Width	48.875" minimum	
8	Upper Windshield Width	27.500" minimum	
9	Roof Height	56.625" maximum	
10	B-Pillar Base Width	49.625" minimum	
11	Widest Point Below B-Pillar	70.000" maximum	
12	Roof Width	32.000" minimum	
13	Rear Wheel Well Forward Width	71.875" maximum	
14	Rear Wheel Well Centerline	60.000" min, 69.500" max (or OEM)*	
	Width		
15	Rear Wheel Well Rearward Width	67.750" min, 68.750" maximum	
16	Width of Body Below Taillights	68.500" minimum, 69.500" max	
17	Spill Plate Height	5.000" above roof or 60.500" from	
		ground (whichever is less) (#9 - #17)	
18	Deck Area Offset Between Spill Plates	1.750" maximum	
19	Rear Bumper Overhang	54.000" maximum	
20	Spill Plate Rear Overhang	60.000" maximum	
21	Bumper Vertical Surface	3.000" minimum	
22	Parachute Shroud Line Cutout	4.000" x 30.000" maximum	
23	Hinged Taillight Openings	100 in2 maximum (per opening)	
24	Outside Spill Plate Width	54.000" maximum (must be parallel)	
25	Rear Window Length	Match OEM: Measure Decal*	

#	Measurement	Requirement	Actual
26	Roof Length	+/- 4.000" from OEM: Measure to	
		Decal*	
27	Escape Hatch Length	18.000" minimum	
28	Escape Hatch Width	17.000" minimum	
29	Side Window Openings	6.000" minimum	
30	Side Window Height	- 2.000" maximum from OEM, or	
		14.000"*	
31	Windshield Length	Match OEM*	
32	Hood Cowl Height	5.000" maximum	
33	Body Burst Panel(s)	288 in2 minimum (sum of all openings)	
34	Injector Opening Width	26.000" maximum:	
35	Stiffener Lip Around Body	1.000" maximum	
36	Spill Plate Height Above/Below	5.000" maximum	
	Roof		
37	Ground Clearance Front	3.000" minimum	
38	Ground Clearance Sides	2.000" minimum	
39	Rear Axle Centerline to Body	8.000" minimum	
	<u>Height</u>		
40	Rear Axle Centerline to Edge of	18.000" minimum	
41	Front Ayle Centerline to Body	5 000" minimum	
	Height	5.000 minimum	
42	Bumper to Ground Height	29.500" maximum	
43	Spoiler Overhang	56.000" maximum	
44	Spoiler Height	4.000" above or below roof (use #9)	
45	Lowest Point of Rear Wheel Well	12.000" minimum	
	to Ground		
46	Wheelbase Left	124" min, 125" max (on long side)	
47	Wheelbase Right	2" maximum stagger	
48	Side Window Length	4 Door = 24.500" min, 2 Door =	
		25.750" min	
49	Deck Length	12.000" minimum	

Date:	Location:	NHRA Sticker #:	
Body Model:	Body Serial #:	Inspector(s):	
Driver:	Car Number:	Fire Retardant Date:	





	Front Wheel	Rear Wheel
Body Year	Centerline	Centerline
	#3	#14
22'- New Supra	67.875"	67.875"
12'-21' Camry	68.250"	69.500"
16'- New Camaro	66.000"	69.250"
19'- New Charger	67.625"	70.250"
16'-18' Charger	68.125"	72.375"
10'-15' Charger	68.250"	72.625"
19'- New Mustang	68.000"	70.250"
15'-18' Mustang	68.250"	69.500"
09'-14' Mustang	68.375"	69.375"

#	Measurement	Requirement	Actual
1	Front Body Overhang	40.000" maximum	
2	Front Wheel Well Forward Width	70.250" maximum	
3	Front Wheel Well Centerline Width	60.000" min, 68.375" max (or OEM)	
4	Front Wheel Well Rearward Width	64.875" minimum	
9	Roof Height	56.625" maximum	
12	Roof Width	32.000" minimum	
13	Rear Wheel Well Forward Width	71.875" maximum	
14	Rear Wheel Well Centerline Width	60.000" min, 69.500" max (or OEM)	
15	Rear Wheel Well Rearward Width	67.750" min, 68.750" maximum	
17	Spill Plate Height	5.000" above roof or 60.500" from	
		ground (whichever is less) (#9 - #17)	
19	Rear Bumper Overhang	54.000" maximum	
20	Spill Plate Rear Overhang	60.000" maximum	
21	Bumper Vertical Surface	3.000" minimum	
24	Outside Spill Plate Width	54.000" maximum	
36	Spill Plate Height Above/Below Roof	5.000" maximum	
39	Rear Axle Centerline to Body Height	8.000" minimum	
42	Bumper to Ground Height	29.500" maximum	
43	Spoiler Overhang	56.000" maximum	
44	Spoiler Height	4.000" above or below roof (#9 - #44)	

Date:	Loca	ation:	NHRA Sticker #:	
Body Model:	Body	ly Serial #:	Inspector(s):	
Driver:	Car	Number:	Fire Retardant Date:	
Throttle Clearance:	Fire	ewall Height:	Body Tethers Installed:	