



Technical Bulletin

Automobile Racing Club of America
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To: All ARCA Menards Series, ARCA Menards Series East, ARCA Menards Series West, Car Owners, Drivers, and Crew Chiefs:

Date: 11/29/23

Effective January 1, 2024 – The following are amendments to the 2023 ARCA Menards Series Rule Book that will be incorporated into the 2024 ARCA Menards Series Rule Book:

NOTICE: The ARCA Menards Series Rule Book, Technical and Team information Bulletins may be accessed by visiting www.arcaracing.com.

The 2024 ARCA Menards Series Rule Book will take precedent over the following rule amendments.

NOTICE

ALL MODEL, ENGINE OR EQUIPMENT CHANGES OR MODIFICATIONS NOT SPECIFICALLY ADDRESSED IN THIS RULE BOOK BY ARCA MUST BE SUBMITTED, IN A COMPLETED FORM/ASSEMBLY, TO ARCA FOR CONSIDERATION OF APPROVAL, ON OR PRIOR TO SEPTEMBER 1, 2024, UNLESS OTHERWISE AUTHORIZED BY ARCA, TO BE CONSIDERED FOR COMPETITION FOR THE 2025 SEASON. THE APPLICANT WILL BE NOTIFIED OF APPROVAL OR REJECTION FROM ARCA. RACE EQUIPMENT WILL NOT BE CONSIDERED AS HAVING BEEN APPROVED BY REASON OF HAVING PASSED THROUGH INSPECTION AT ANY TIME OR ANY NUMBER OF TIMES UNOBSERVED OR UNDETECTED. ANY RACE EQUIPMENT WHICH DOES NOT CONFORM TO SPECIFICATIONS OR TOLERANCES CONTAINED IN THE 2024 ARCA RULE BOOK, OR IS NOT OTHERWISE APPROVED BY ARCA, MAY NOT BE USED IN ARCA COMPETITION IN 2024. ALL SUBMITTED RACE EQUIPMENT MUST BE ACCOMPANIED BY COMPUTER-AIDED DESIGN (CAD) FILES AND/OR MECHANICAL DRAWINGS AND REQUISITE FEE AS DETERMINED BY ARCA.

20C - 1.2 ARCA Menards Series

The ARCA Menards Series will compete with the rules as specified in Section 20C of the Rule Book. If authorized by ARCA, deviations to these rules may be permitted for stand-alone Events only. All combination Events will be governed by the rules as published in Section 20C of the Rule Book.

The NASCAR-approved (Generation 5) frame and roll cage assembly consisting of main frame rails, upper left side frame rail, trailing arm crossmember assembly, rear sub-frame assembly and numbered roll bars (#1 through #19) will be permitted. The frame and roll cage assembly must be NASCAR-approved and meet the specifications and dimensions as described in sub-sections 20C-11.2 (Frame Requirements), 20C-18 (Roll Bars) and shown in Diagrams #1A through #4B in the rear pages of the Rule Book.

When the NASCAR-approved (Generation 5) frame and roll cage assembly is used it must meet the following specifications. Unless otherwise specified within this Rule Book all other components and specifications such as suspension, tread width, body location and wheelbase must meet the specifications in the 2024 ARCA Menards Series Rule Book.

20C - 1.3 APPROVED COMPETITION MANUFACTURERS AND MODELS

A. 2024 Racing Season:

The following are the only approved models for competition in the ARCA Menards Series in 2024:

2014 Grand National-Approved (Flange Fit) Composite Body

Approved Models:
Chevrolet - SS
Ford - Fusion
Toyota - Camry

2022 Grand National-Approved (Flange Fit) Composite Body

Approved Models:
Ford - Mustang

B. 2025 Racing Season:

Any new vehicle model to be considered for approval for competition in the 2025 season must be submitted by the manufacturer to ARCA for initial consideration not later than June 7, 2024, unless otherwise authorized by ARCA. At the manufacturer's expense, the manufacturer must provide all information, materials, electronic files, benchmark production vehicle(s) and race-version vehicle(s) as requested by ARCA on or before any dates specified by ARCA. The manufacturer must cooperate with ARCA to enable ARCA and the NASCAR Research and Development Center to complete all necessary track tests, aerodynamic tests, and other competitive analysis by September 3, 2024, unless otherwise authorized by ARCA. All new vehicle models submitted to ARCA for approval by the manufacturer must conform to the same body configuration and meet the spirit and intent of competitive racing as currently evidenced in this Series. All new vehicle models submitted to ARCA for approval must complete the ARCA Series OEM Body Approval Process. To begin the ARCA Series OEM Approval Process, an OEM must complete and submit the ARCA Series OEM Body Approval Initiation Request Form to the ARCA President.

20C - 3.1 Front Air Dam

A. Approved front air dams must have a minimum ground clearance of four (4) inches for all models. When an air dam extension is attached to the front bumper cover it must be a flush-mounted, stationary, securely fastened, single layer not exceeding a maximum thickness of 3/16 inch and must be mounted parallel to the bumper cover. The air dam extension must be secured in a manner that will prevent movement of the air dam extension while in competition. All support brackets must be mounted to the rear of the air dam.

B. and C. remains the same.

20C – 3.4.1 Front Firewall

A. The engine firewall must be as wide as the outside of the frame rails and must be magnetic sheet steel, a minimum thickness of 0.027 inch, with seams welded and mounted vertically without any offsets. The firewall must remain vertical to within eight (8) inches from the top of the frame rails and must connect to the floor pan within seven (7) inches rearward of the vertical firewall.

B. The use of vertical front firewall extensions is highly recommended. If used the vertical front firewall extensions must meet the following specifications:

A minimum 0.027 inch thick magnetic sheet steel vertical front firewall extensions must be attached to the vertical front firewall and fill the area between the vertical front firewall, rocker panels and flush with the inside surface of the front fenders rearward of the wheel opening and to the top of the vertical front firewall. Only one (1) radius (concave) will be permitted between the vertical front firewall and the inside vertical surface of the front fenders.

C. The use of vertical front firewall end panels is highly recommended. If used the vertical front firewall end panels must meet the following specifications:

A minimum 0.027 inch thick magnetic sheet steel vertical front firewall end panel must be welded in place to connect and seal the left and right ends of the vertical front firewall and lower angled panels to the left and right front roll bar legs (#2A & B).

D. It is required that one (1) of the vertical front firewall recommendations (extensions or end panels) as described in "B" or "C" above must be used. The use of both is highly recommended.

When the NASCAR-approved (Generation 5) frame and roll cage assembly is used it must meet the following specifications. Modifications to any of the specifications or components will not be permitted.

The front firewall must be constructed using a main vertical section, two (2) angled sections connecting the vertical section to the left and right floor pans, a transmission tunnel opening, and a windshield filler panel.

A. and B. remains the same.

C. The use of vertical front firewall extensions is highly recommended. If used the vertical front firewall extensions must meet the following specifications:

A minimum 0.027 inch thick magnetic sheet steel vertical front firewall extensions must be attached to the vertical front firewall and fill the area between the vertical front firewall, rocker panels and flush with the inside surface of the front fenders rearward of the wheel opening and to the top of the vertical front firewall. Only one (1) radius (concave) will be permitted between the vertical front firewall and the inside vertical surface of the front fenders.

D. The use of vertical front firewall end panels is highly recommended. If used the vertical front firewall end panels must meet the following specifications:

A minimum 0.027 inch thick magnetic sheet steel vertical front firewall end panel must be welded in place to connect and seal the left and right ends of the vertical front firewall and lower angled panels to the left and right front roll bar legs (#2A & B).

E. It is required that one (1) of the vertical front firewall recommendations (extensions or end panels) as described in "B" or "C" above must be used. The use of both is highly recommended.

F. A tunnel opening must be cut near the center of the vertical front firewall and the lower angled panels. The tunnel opening must be 15 inches wide at the bottom where it meets the floor and must not be wider than 15 inches at any point. The left side of the tunnel opening must be located a maximum of six (6) inches from the longitudinal centerline of the frame. The top edge of the tunnel opening must be four (4) inches above the top of the vertical front firewall lower angled panels (see Diagrams #5A, B & C, in the rear pages of the Rule Book). A radius will not be permitted at the edge of the tunnel opening. The top of the tunnel opening must be cut in an arc and must not be flat at the top

G. A front firewall to windshield filler panel, constructed using magnetic sheet steel a minimum of 0.027 inch thick, must be welded to the top edge of the front firewall vertical section and fill the area between the top of the front firewall vertical section and the bottom edge of the windshield.

20C - 4.1 General Engine Eligibility

A. The eligible engines must be production engines as determined, selected and approved by ARCA. All major components (engine block, heads, etc.) must be produced by the manufacturer for sale in a regular product offering. Prior to being used in competition, all major engine and component parts must be submitted, in a completed form/assembly, to the NASCAR R&D Center on or prior to September 3, 2024, for consideration of approval and approved by ARCA. Each such part may thereafter be used until ARCA determines that such part is no longer eligible.

B. through D. remains the same.

20C – 5.12.1 Air Filter / Air Filter Housing

A. remains the same.

B. Only a round ARCA-approved composite or metal air filter housing will be permitted. The top and bottom of the air filter housing must be solid and must be the same diameter. The top and the floor of the air filter housing from the air filter element to the outside edge of the air filter must remain parallel to the top and bottom of the air filter element. A maximum of a one (1) inch lip will be permitted from the air filter element to the outside edge of the air filter housing top and bottom. The air filter housing must be centered on the carburetor and seated on the air filter housing gasket ring. The air filter housing carburetor/throttle body mounting ring must have one (1) round hole. Except for one (1), vertical vane, centered in the air filter housing, front to rear, tubes, funnels or any other devices that may control the flow of air will not be permitted inside of the air filter, air filter housing or between the air filter housing and the carburetor/throttle body. Two (2) 1/4 inch diameter drain holes must be drilled in the bottom of the air filter housing at the lowest point. Additional holes will not be permitted.

C. remains the same.

20C - 6.7 Accessories

A. through P. remains the same.

Q. For all road course and dirt Events, rear rain flaps (Part # AUT 562.072424) must be installed at all times during an Event. Rear rain flaps must be installed as shown in Diagram #12 In the rear pages of the Rule Book.

20C - 10.6 Rear Axle

A. through E. remains the same.

F. Total rear wheel alignment including axle housing toe and housing alignment in the chassis, must not exceed 0.250 inch when measuring from the inside surface of the ARCA wheelbase gauge to the outer most surface of the tire sidewall. The axle housing including all components (hubs, brake hats and wheel spacers), must be centered between the frame rails with a maximum of one (1) inch offset to the right side only. When measuring the total rear wheel alignment including axle housing toe and axle housing offset the track bar must be horizontally level.

G. through J. remains the same.

20C - 10.7 Wheels / Lug Bolts / Lug Nuts

A. Wheels must be from an approved manufacturer. (language removed here) Wheels must be SFI-approved, (language removed here) and meet the SFI 35.1 specification, display a valid label and must be acceptable to ARCA Officials.

B. through I. remains the same.

20C - 10.8.4 Tire Usage Rules

A. through M. remains the same.

N. Tire cooling fan and hose assemblies will only be permitted on oval tracks 1-1/4 miles or more in length. When used only one (1) tire cooling fan and hose assembly with a maximum hose diameter of three (3) inches will be permitted for each front tire. The fan must be mounted behind the front bumper cover and a minimum of four (4) inches above the lower edge of the front bumper cover (front valance is not included in the measurement). The fan and hose assembly cannot draw air through the radiator duct work. The hose assembly outlet must be a minimum of six (6) inches inward from the outer edge of the fender opening. The hose assembly must be securely mounted and remain stationary. Mounting of the fan assembly must be acceptable to ARCA Officials.

O. remains the same.

20C - 12.1 Coil Springs / Spring Mounts / Jacking Bolts

Only coil spring suspension will be permitted. All coil springs must be constructed using solid, round magnetic steel wire, wound in a clockwise direction. Ovate and flat wire will not be permitted. The coil spring wire diameter must be the same size from the top to the bottom of the spring. All of the coils in a spring must be active. The coil springs at all four (4) wheels must be active and permit suspension movement. All coil springs must not be colder than ambient temperature.

A. Front Coil Springs

1. and 2. remains the same.

3. The free height of the bare front coil springs must not be more than 11 inches and must not be less than 7-1/2 inches.

4. through 10. remains the same.

B. Rear Coil Springs

1. through 13. remains the same.

20C - 12.7 Wheelbase Requirements

A. remains the same.

B. All vehicles competing with a 105 inch wheelbase must measure the wheelbase as follows; one side measurement must be 105 inches. The opposite side wheelbase must measure a minimum of 104-1/2 inches and a maximum of 105-1/2 inches. Any device or procedure which has the ability to dynamically change the wheelbase beyond normal travel parameters will not be permitted.

105 inch wheelbase vehicles are approved for competition at all ARCA West Series stand-alone Events on oval tracks less than 3/4 mile in length and road courses only.

Effective January 1, 2025, 105 inch wheelbase vehicles will be approved for competition at all ARCA West Series Road Course Events only.

Only the approved “Spec” and Built engines will be permitted for use with 105 inch wheelbase vehicles.

If the NASCAR-approved (Generation 5) frame and roll cage assembly is used, it must be used for 110 inch wheel base vehicles only.

20C - 12.8.2 Ground Clearance Requirements

A. and B. remains the same.

C. The front air dam clearance must be a minimum of four (4) inches.

D. All suspension parts clearance must be a minimum of four (4) inches.

E. The oil pan clearance must be a minimum of three (3) inches.

F. The exhaust pipe clearance must be a minimum of three (3) inches.

G. The left side vertical extension clearance must be a minimum of three (3) inches and the right side vertical extension clearance must be a minimum of four (4) inches.

*At road course Events, the right side vertical clearance must be a minimum of three (3) inches.

H. The engine ground clearance from the center of the leading edge of the crankshaft accessory drive bolt must be a minimum of 10 inches and a maximum of 12 inches for all currently approved engines. Nothing may be located directly forward or below the front end of the crankshaft that would interfere with the engine ground clearance inspection.

20C - 14.2 Brake Cooling

A. On all vehicles, all air used for front brake cooling must enter through the front of the vertical air dam wall above the valance and below the front bumper. Only a maximum of three (3) approved, maximum four (4) inch diameter, round air inlets which connect to a maximum of three (3), four (4) inch diameter flexible hoses on the back side of the vertical air dam will be permitted. The round air inlets must be mounted in the vertical air dam wall at a minimum distance of 14-1/2 inches from the vehicle’s longitudinal centerline. One (1) in-line fan will be permitted to be used in each cooling hose. All brake cooling hoses must have one end mounted flush to the inside of the vertical air dam and the opposite end must be mounted a minimum of four (4) inches from the brake assembly for each wheel. Mounting of brake cooling components must be acceptable to ARCA Officials.

B. through D. remains the same.

20C - 17 PERSONAL SAFETY EQUIPMENT

A. remains the same.

B. Protective Clothing

IT IS THE RESPONSIBILITY OF THE DRIVER AND CREW MEMBER, NOT ARCA, TO ENSURE THAT HE/SHE MAINTAINS, WEARS AND PROPERLY USES PROTECTIVE CLOTHING.

DRIVERS – Unless otherwise authorized, while on the track during the Event, Drivers must comply with the following:

	Use Required	Use Recommended	SFI/ <u>FIA</u> Specification (minimum)	SFI Specification (recommended)	SFI Label Visibly Displayed
Uniform	X One-piece Uniform		3.2A/5	3.4	Outside Surface of Left Sleeve
Shoes	X		3.3		X
Gloves	X		3.3		X
<u>Head Sock and/or Helmet Skirt</u>	<u>X</u>		3.3 <u>FIA 8856-2000</u> <u>FIA 8856-2018</u>		X

Underwear/ <u>Socks</u>	X		3.3 <u>FIA</u> <u>8856-2000</u> <u>FIA</u> <u>8856-2018</u>		X
Helmet	X Refer to Section 20C17.1A Helmets				Helmet Certificatio n Label Affixed To Helmet At All Times

CREW MEMBERS – During race conditions, any crew member who steps into the vehicle servicing area must comply with the following:

	Use Required	Use Recommended	<u>SFI/FIA</u> Specification (minimum)	SFI Specification (recommended)	SFI Label Visibly Displayed
Uniform	X		3.2A/1	3.2A/5 or 3.4	Outside Surface of Left Sleeve
Shoes	X		3.3		X
Gloves	X		3.3		X
Head Socks <u>Must Cover</u> <u>Nose &</u> <u>Mouth</u>	X		3.3 <u>FIA</u> <u>8856-2000</u> <u>FIA</u> <u>8856-2018</u>		X
Underwear		X		3.3	
Socks		X		3.3	
Helmet	X Refer to Section 20C17.1 A3 Helmets				

FUEL HANDLER/FUELER (CREW MEMBER) – During race conditions, any crew member involved in fueling the vehicle or handling or transporting fuel in the garage or pit area must comply with the following:

	Use Required	Use Recommended	<u>SFI/FIA</u> Specification (minimum)	SFI Specification (recommended)	SFI Label Visibly Displayed
Uniform	X		3.2A/5	3.4	Outside Surface of Left Sleeve
One-Piece Uniform		X		3.2A/5 or 3.4	Outside Surface of Left Sleeve
Shoes	X		3.3		X
Gloves	X		3.3		X

Apron	X		52.1		X
Underwear		X		3.3	X
Socks		X		3.3	X
Head Socks <u>and/or</u> <u>Helmet Skirt</u> <u>Must Cover</u> <u>Nose &</u> <u>Mouth</u>	X		3.3 <u>FIA</u> <u>8856-2000</u> <u>FIA</u> <u>8856-2018</u>		X
Full-face Helmet with Covering Face Shield	X Refer to Section 20C17.1A Helmets				Helmet Certificatio n Label Affixed To Helmet At All Times

20C-17.4 Window Net

A. remains the same.

B. The window net must be a rib-type construction made from minimum 3/4 inch, maximum one (1) inch wide material, with a minimum one (1) inch square opening between the ribs. The minimum window net size must be 20 inches wide by 14 inches high. Window net webbing **must** not be attached to the B-pillar. No flap(s) or additional material may be present on the driver's window net.

C. and D. remains the same.

20C - 18 Roll Bars

A. through F. remains the same.

G. Roll bar padding must be symmetrically positioned between the centerline of the roll bar to which it is mounted and the nearest portion of the drivers body.

H. All roll bar padding must be adhered to the roll bar with adhesive or double-sided tape.

I. All references to the roll cage, roll bars, roll cage bars or the roll cage bar design specified in other sections of the Rule Book refer to sub-section 20C-18.

J. At the discretion of ARCA Officials, additional material and/or tubing may be required to be welded to any vehicle that does not conform to the January 1, 2024 roll cage or roll bar specifications as described in sub-section 20C-18.

When the NASCAR-approved (Generation 5) frame and roll cage assembly is used it must meet the following specifications. Modifications to any of the specifications or components will not be permitted.
Roll Bars

A. through F. remains the same.

G. Roll bar padding must be symmetrically positioned between the centerline of the roll bar to which it is mounted and the nearest portion of the drivers body.

H. All roll bar padding must be adhered to the roll bar with adhesive or double-sided tape.

I. All references to the roll cage, roll bars, roll cage bars or the roll cage bar design specified in other sub-sections of the Rule Book refer to sub-section 20C-18.

J. At the discretion of ARCA Officials, additional material and/or tubing may be required to be welded to any vehicle that does not conform to the roll cage or roll bar specifications as described in sub-section 20C-18.