

# SpecE30 Regulations

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# 1. Introduction

- 1.1. These regulations govern SpecE30 Series racing events held throughout North America.
- 1.2. The SpecE30 Series is a competitive, fun, safe, affordable racing series, focused on road racing with limited modifications and specified required components. The series showcases the driver's skills and the specified required components manufacturers, distributors, and dealers.
- 1.3. Only modifications specifically authorized are allowed; and competitive adjustments are not allowed. **Other than the modifications specifically allowed in these Rules, every part of the car must remain as it came from the factory.**
- 1.4. These regulations are 'living' and subject to changes at any time. The stability of these rules allows for this provision as opposed to the typical annual rules update with wholesale changes that occurs on a calendar year basis.
  - 1.4.1. Changes will have sufficient lead time for competitors to become compliant.

## 2. Sanctioning Body

The National Auto Sport Association (NASA) sanctions SpecE30 competitions. All events are governed by these Regulations, applicable addendums, as well as those found in the latest version of the *NASA Club Codes and Regulations* (CCR). All decisions made by the series administration are final, except under certain conditions, as specified by the CCR.

## 3. Definitions and Application of the Regulations

- 3.1. "Shall" is mandatory, "may not" is prohibitive, and "may" is permissive. If there is a conflict between the Regulations and the CCR, the Regulations supersede the CCR. If an item is not addressed in the Regulations then the item is controlled by the CCR.
- 3.2. If the Regulations do not specifically permit a modification, it may not be made.
- 3.3. "Original" and "stock" mean "as originally fitted for the chassis, model and year of the car."
- 3.4. "Substituted" means that original OEM equivalent items may be used.
- 3.5. "Replaced" means that the item may be replaced with items meeting or exceeding OEM specifications.
- 3.6. "Modified" means that the item may be replaced, machined, welded, or removed.
- 3.7. The interpretation and application of the SpecE30 Series Regulations by SpecE30 or NASA officials is final and binding. In order to promote the sport of automobile competition, to achieve prompt finality in competition results, and in consideration of the numerous benefits to them, all members, including competitors and officials, expressly agree that:

3.7.1. Determinations by SpecE30 or NASA officials shall not be subject to litigation, and they may not initiate or maintain litigation of any kind against SpecE30 or NASA or anyone acting on behalf of SpecE30 or NASA to reverse or modify such determinations, or seek to recover damages or other relief allegedly incurred or required as a result of such determination.

3.7.2. If a driver, entrant, crew member, guest, or official initiates or maintains litigation in violation of this provision, that person agrees to indemnify and reimburse the National Auto Sport Association (NASA) for all costs of such litigation, including travel expenses, court costs, witness and filing fees, and reasonable attorneys' fees.

3.7.3. All drivers agree to abide by all applicable rules.

3.7.4. All drivers agree that their likeness may be used by SpecE30 or NASA in any manner for promotional benefit. Furthermore, all drivers agree that no residuals or payments of any type will become due to them for use of their likenesses.

## **4. Classification**

4.1. The SpecE30 Series has one preparation level and class.

## **5. Series Championship**

5.1.1. The provisions of the NASA CCR Section 22.0 shall apply.

## **6. Rules Compliance**

6.1. Each competition vehicle shall conform to these published rules.

6.2. Any competition vehicle found to have illegal modifications, either by NASA or Spec E30 Officials at any time during a race event, is subject to penalties per CCR Rule 17.7.

## **7. General Rules**

### **7.1. Competitive Format**

7.1.1. The Spec E30 Competitive Format regarding body contact conforms to CCR Section 25 "On Course Conduct."

### **7.2. Driver Eligibility**

7.2.1. A driver shall possess a valid NASA Provisional or Competition License.

## 7.3. Eligible Vehicles

- 7.3.1. Only BMW manufactured automobiles, using BMW manufactured E30 chassis as made available by BMW in the United States through its authorized dealer network are eligible.
- 7.3.2. Eligible vehicles are listed in Appendix A. Vehicles with automatic transmissions or four wheel drive are not eligible.

## 7.4. Vehicle Numbers, Class Identification, Decals

- 7.4.1. Each car shall display easily readable numbers on each side and the front (hood) and rear of the vehicle, of significant size and color differentiation from the body color so as to be clearly seen by timing and scoring officials. Side numbers shall be a minimum of 8 inches high with a 1-1/2 to 2 inch stroke. Hood and rear numbers shall be a minimum of 5 inches tall. Each car shall have **SE30** on both sides of the car, in a color contrasting to the mounting/painted surface. Each letter and number must be at least 3" tall and must have a stroke of at least 1/2". Also required is the same **SE30** in white, at the lower left corner of the rear window, and written backward at the base of the front windshield. Cars displaying **Spec E30** are not required to add SE30 to their rear window.
- 7.4.2. The driver or drivers' last name shall be placed in block print white letters three inches tall centered on each rear quarter panel window and on the lower passenger side front windshield.
- 7.4.3. Series or NASA officials may require series and/or sponsor identification (decals) in a specific size and/or location on each car. Decals must be displayed on cars before being allowed to race.
- 7.4.4. NASA decals as specified in the CCR are required.

## 7.5. Appearance

- 7.5.1. Cars may be painted any color(s).
- 7.5.2. Cars shall be neat and clean, and shall not be dirty externally or in the engine or passenger compartments.
- 7.5.3. Cars shall not show bodywork damage, and shall not be presented for competition totally or partially in primer.
- 7.5.4. Graphics, removable or permanent (painted) are permitted and shall be tasteful.

## 7.6. Repairs

- 7.6.1. All chassis/structural repairs, if performed, shall be in concurrence with factory procedures, specifications, and dimensions. Unless specifically authorized by the manufacturer for repair or allowed by these regulations, no reinforcement, i.e. seam welding, material addition, etc. is permitted.

7.6.2. Body repair shall be performed using every reasonable effort to maintain stock body contours, lips, etc.

## **7.7. Fuel**

7.7.1. Permitted fuel is unleaded pump gasoline, with a maximum octane of 93.

7.7.2. Fuel additives are prohibited.

## **7.8. In Car Adjustments**

7.8.1. No car is permitted any cockpit adjustable system or component, except as specifically allowed in the preparation rules.

## **7.9. Data Acquisition**

7.9.1. Data acquisition devices are permitted but may not perform a secondary function.

# **8. Safety Equipment**

## **8.1. Safety Requirements**

8.1.1. All vehicles and drivers shall conform to NASA's Club Codes and Regulations (CCR) that are in effect as of the date of the competition. If in conflict, these regulations supersede the CCR.

## **8.2. Tow Eyes**

8.2.1. Tow eyes or straps, front and rear, are required. Recommend using straps or folding rings rather than the OEM tow eyes to eliminate protrusions that might cause injury in the pits/paddock.

## **8.3. Fire Systems**

8.3.1. All cars without a fire system shall have a fire extinguisher complying with the CCR securely mounted and within the driver's reach.

8.3.2. On board fire systems with a minimum five (5) pound capacity may be installed. Outlets shall be directed to driver, engine and, if installed, fuel cell, compartments.

## **8.4. Roll Cages**

8.4.1. All roll cage requirements in the CCR shall be met, except for the following:

- 8.4.2. Carpet/padding may be cut for roll cage installation (installation SHALL be metal to metal). Braces may pass thru interior trim panels.
- 8.4.3. Dashboard may be cut solely to allow passage of roll cage front down tubes and/or one lateral tube.
- 8.4.4. Interior trim and door panels may be cut solely to permit passage and attachment of roll cage front and rear hoop braces and side impact bars.

## **8.5. Window Tinting**

- 8.5.1. Tinted REAR windows are specifically disallowed, and non-OEM tinting is discouraged in all windows. OEM window tinting is allowed.

## **8.6. Airbags and Steering Wheels**

- 8.6.1. Non-stock (except wood rim) steering wheels are allowed. Airbags shall be disconnected or defused during on track sessions in all classes and may be removed.
- 8.6.2. Quick release mounting hubs are permitted.

## **8.7. Lug nuts**

- 8.7.1. Use of wheel studs to replace lug bolts is allowed, and highly recommended. It is recommended that wheel studs be replaced every three years.

## **8.8. Oil lines**

- 8.8.1 All oil lines shall be properly secured.

## **8.9. Master Switch**

- 8.9.1. A master electrical kill switch is required.

## **8.10. Catch tank**

- 8.10.1. A catch tank for radiator overflow and oil breather (if vented into the atmosphere) is mandatory.

## **8.11. Engine Coolant**

- 8.11.1. Use of an ethylene glycol (coolant) is prohibited unless specifically allowed by Supplemental Regulations of a specific race event or by permission of the Regional Director. Substitute coolants (e.g. "Water Wetter") are highly encouraged for all competitors.

## **8.12. Steering**

8.12.1. Steering wheel locks shall be disabled.

## **8.13. Sunroof clips**

8.13.1. Sunroof clips are recommended, but not required.

8.13.2. Glass roof tops shall be removed or completely taped over. Use of clear tape is recommended.

## **8.14. Fuel Cells**

8.14.1. Fuel cells are permitted.

8.14.2. If a fuel cell is installed the original fuel tank shall be removed.

## **8.15. Cool Suits**

8.15.1. Cool suits and associated equipment, properly secured, are permitted.

# **9. Specifications**

## **9.1. General**

9.1.1. All cars in this category shall compete with full road equipment, except as allowed by these regulations.

## **9.2. Weight**

9.2.1. The minimum weight, with driver, for each eligible car is listed in Appendix A. The cars may be weighed at any time during the event by NASA or Spec E30 Officials.

9.2.2. A car found to be underweight after a qualifying session shall start the following race behind the last-place qualified Spec E30 car, and only if the underweight car meets the minimum weight requirement prior to the start of the race.

9.2.3. A car found to be underweight after a race session shall be disqualified from the race results and a notation shall be made on the current event page of the car's logbook. The car shall be weighed at the next event, and shall meet minimum weight requirements before being allowed to compete. Per CCR Rule 17.8, each competition vehicle will be given a five (5.0) pound leeway at that car's first official weigh of each race event.

## 9.3. Modifications

### 9.3.1. Engine

#### 9.3.1.1. Induction System

9.3.1.1.1. Air filter elements may be replaced.

9.3.1.1.2. The stock unmodified intake airbox assembly shall be retained, and in its original mounting. The stock airbox front rubber hose shall be removed.

9.3.1.1.3. Both left and right side plastic panels behind the headlights shall be removed.

#### 9.3.1.2. Component Modification

9.3.1.2.1. Machining for balancing purposes only is allowed.

9.3.1.2.2. All pistons, including aftermarket replacements, shall be factory replacement spec and match factory dome, dish, valve relief depth, ring groove placement, weight and wrist pin height; compression shall meet factory replacement specifications. The maximum allowable overbore is limited to the largest available factory replacement piston, not to exceed .020 inch.

9.3.1.2.3. Rings may be replaced.

9.3.1.2.4. Bearings may be replaced.

9.3.1.2.5. Valve guides may be replaced.

9.3.1.2.6. No engine component may be modified in any manner not specifically permitted or authorized by the Factory Service Manual or Factory Technical Bulletins.

9.3.1.2.7. Overhaul procedures which in any way may increase performance beyond factory specifications that are not specifically authorized by these regulations are prohibited, (e.g. porting/polishing, etc).

#### 9.3.1.3. Fuel System

9.3.1.3.1. Fuel filters may be substituted.

9.3.1.3.2. Any commercially available fuel pumps, hoses, and fuel tank baffles are allowed. All other fuel system components must remain stock.

9.3.1.3.3. A fuel pump may not be located in the driver/passenger compartment.

9.3.1.3.4. **The stock fuel pressure regulator must be used.**

9.3.1.3.5. Fuel lines may be replaced.

9.3.1.3.6. Fuel lines shall not exceed 3/8 (three-eighths) of one inch inside diameter.

9.3.1.3.7. Fuel lines that pass through the driver/passenger compartment shall be metal or metal braided and securely fastened.

**9.3.1.3.8 Any stock and unmodified E30 fuel tank is permitted.**

#### **9.3.1.4. Camshaft and Valve Gear**

9.3.1.4.1. All valve sizes, seat dimensions and angles, etc., shall conform to factory specifications.

9.3.1.4.2. All cam dimensions, lift, duration, etc., shall conform to factory specifications.

#### **9.3.1.5. Block**

9.3.1.5.1. Compression ratio may be changed only within the tolerances affected by resurfacing for trueness and within factory tolerances or as allowed by these regulations.

#### **9.3.1.6. Oiling System**

9.3.1.6.1. Engine oil may be substituted.

9.3.1.6.2. Engine oil filter may be substituted.

9.3.1.6.3. A pressure accumulator/"Accusump" is permitted, and the location of the accumulator within the bodywork is unrestricted, but it shall be securely mounted.

9.3.1.6.4. Oil lines that pass through the driver/passenger compartment shall be metal or metal braided and securely fastened.

9.3.1.6.5. Oil pans, pan baffles, scrapers, windage trays, and oil pickups are unrestricted.

9.3.1.6.5.1. Dry sump systems are prohibited.

9.3.1.6.6. Oil coolers may be added or replaced, and their location within the bodywork is unrestricted so long as they are not mounted within the driver/passenger compartment.

9.3.1.6.7. Oil lines may be replaced.

### 9.3.1.7. Engine Management System

9.3.1.7.1. The engine management computer or ECU may not be altered.

9.3.1.7.2 See section 10 Appendix C for allowed ECU models

### 9.3.1.8. Other Engine Related Items

9.3.1.8.1. Alternate, non-solid, motor mounts, providing the same height as original, are permitted.

9.3.1.8.2. Engine belts may be substituted.

9.3.1.8.3. Hardware items (bolts, nuts, etc.) may be replaced with similar items performing the same fastening function.

9.3.1.8.4. Head gasket(s) may be replaced with any gasket(s) having the same or greater compression thickness as stock.

9.3.1.8.5. Other engine gaskets are unrestricted.

9.3.1.8.6. The application or use of any painting, coating, plating, or impregnating substance (i.e. anti-friction, thermal barrier, oil shedding coatings, chrome, anodizing, etc.) to any internal engine surface, including intake manifolds, is prohibited.

9.3.1.8.7. Cruise control mechanism may be modified or removed.

9.3.1.8.8. Battery mount may be replaced.

### 9.3.2. Engine Swapping

9.3.2.1. Cars that do not have an original type engine, (e.g. the engine was not available in the model, chassis and year of the car), shall be classed based upon the vehicle for which the engine was original.

9.3.2.2. The car shall meet the weight minimum of the chassis, model and year for which the engine was originally available in the chassis of a US model, (e.g. it will assume the characteristics of the donor car).

9.3.2.2.1. Location and maximum ballast weight allowed is specified in 9.3.13.

9.3.2.3. Swapping or mixing of engine or driveline components between different engine types is not permitted, (e.g. mating the head from an eta engine with the block from a 325i M20).

### 9.3.3. Ignition/Starter/Electrical Systems

9.3.3.1. Spark plugs and spark plug wires may be replaced.

9.3.3.2. Batteries may be replaced.

### 9.3.4. Exhaust System

9.3.4.1. Any Spec E30 racecar towed to any competition event shall use a spec exhaust.

9.3.4.1.1. The spec exhaust system must be purchased from the Spec E30 approved supplier (Paul Poore pepco2@verizon.net) and may not be modified in any way, **except as described in 9.3.4.1.3.** The following parts must be used and assembled as designed by the manufacturer.

- 1- PPS30101 Forward Section with Collector
- 2- PPS30102 Middle Section
- 3- PPS30103 Muffler/Tailpipe Assembly
- 4- PPS30104 49.5 mm Clamp (2 req. - optional)
- 5- PPS30105 59.5 mm Clamp (2 req. - optional)

9.3.4.1.2. The spec exhaust system components must be either welded or clamped together after all slip joints are fully seated. **Any commercially available clamp may be used, so long as it serves no other function.**

9.3.4.1.3. **Minor adjustments may be made to the Spec Exhaust system to help with fitment. Any adjustment made can serve no secondary purpose.**

9.3.4.2. Any Spec E30 car that is driven on public highways, to a competition event, must use either the Spec E30 spec exhaust or a fully functioning OEM or OEM equivalent exhaust system.

9.3.4.3 Original factory installed exhaust heat shields may be removed.

### 9.3.5. Cooling Systems

#### 9.3.5.1. Radiators

9.3.5.1.1. Any radiator may be used, provided it is mounted in the original location, maintains the same plane as the original core, closely matches the factory height and width, and requires no body or structure modification to install.

9.3.5.1.2. Mechanical cooling fan and associated assembly (fan, fan belt, fan clutch and fan shroud) may be removed or replaced.

9.3.5.1.3. Electrically operated fans with manual or automatic actuation may be added.

9.3.5.1.4. Thermostats may be modified, removed, or replaced.

9.3.5.1.5. Water hoses may be replaced.

### **9.3.5.2. Air Conditioners**

9.3.5.2.1. Air conditioning belts may be removed.

9.3.5.2.2. Air conditioning system may be removed in whole or in part.

### **9.3.5.3. Heaters**

9.3.5.3.1. Heater hoses may be plugged.

9.3.5.3.2. Heater water control valve(s) may be added or replaced.

9.3.5.3.3. Heater core and hoses may be removed.

### **9.3.6. Drive Line/Drive Shaft**

9.3.6.1. Drive shaft may be substituted.

### **9.3.7. Steering**

9.3.7.1. Steering components may be substituted.

9.3.7.2. Power steering pump and associated plumbing may be removed.

9.3.7.3. Power steering hoses may be replaced.

9.3.7.4. Power steering belts may be removed.

### **9.3.8. Suspension**

9.3.8.1. Any adjustable or fixed camber or camber/caster plate is allowed, unless specified in these regulations.

9.3.8.2. Use of eccentric/offset bushings at the control arm pivot points or at the strut-to-bearing-carrier joint is permitted.

9.3.8.2.1 The maximum allowed front camber is 3.5 degrees

9.3.8.2.2 The maximum allowed rear camber is 3.5 degrees

9.3.8.3. Rear Shocks.

9.3.8.3.1. Bilstein Sport shocks - part number B36-2027 shall be used.

9.3.8.3.2. No modifications of any kind are permitted.

9.3.8.4. MacPherson strut inserts.

9.3.8.4.1. Bilstein Sport insert - part number P36-0335 or P30-0334 shall be used.

9.3.8.4.2. No modifications of any kind are permitted.

9.3.8.5. Any suspension toe setting, front and rear and not requiring machining or modification to factory parts, is allowed.

9.3.8.6. Springs.

9.3.8.6.1. H&R Race Springs - part number 50404-88 shall be used and shall not be modified in any way.

9.3.8.6.2. Front Spring part number 50404-88F and EBS-BMW-3/1 are equivalent.

9.3.8.6.3. Spring pads may be removed.

9.3.8.7. An unmodified non-adjustable front anti-roll bar, measuring 22mm and an unmodified adjustable rear anti-roll bar, measuring 19mm, are required. Manufacturer is free, unless specified in these regulations. A "Manufacturer" is defined as a company conducting commercial business in a specific location and which produces/builds a minimum of 15 anti roll bar sets of the same design, per year.

9.3.8.7.1. Anti-roll bar links provided with the bars from the manufacturer are permitted.

9.3.8.7.2. **Disconnecting the rear antiroll bar is permitted.**

9.3.8.8. Suspension bushing material replacement is permitted.

9.3.8.9. Any bolt-in strut or shock tower brace is permitted, unless specified in these regulations.

9.3.8.10. Additional reinforcement of sway bar pick-up points and trailing arm pick-up points is permitted.

9.3.8.11. Additional reinforcement of front sub-frame, motor mount areas, control arm pick-ups, idler arm and steering box mounts is permitted.

9.3.8.12. Solid rear upper shock mounts are permitted.

9.3.8.13. Updated (larger) front strut housing, BMW part number 31 31 1 127 315/6 are permitted.

9.3.8.14. One single-piece flat aluminum sheet, no thicker than 1/16" may be installed to protect the oil pan. It shall serve no other function and may not exceed 20" wide X 26" long. The leading edge must be attached to the lower radiator support and the trailing edge to the front subframe.

9.3.8.15. The maximum allowed front width is 168 cm with a leeway of 5 mm.

9.3.8.16 The maximum allowed rear width is 168 cm with a leeway of 5 mm.

9.3.8.17 The suspension width will be measured on the ground and at the outside edges of the tires.

### 9.3.9. Tires and Wheels

9.3.9.1. The Toyo R888, size 205/55/14 or 205/50/15 must be used in qualifying and competition. Any tire brand may be used in practice or other non competition sessions.

9.3.9.1.1. Four "Toyo Tires" decals (2"x18" size) shall be on the car. One decal shall be placed on each side of the car as well as one on the front and one on the rear.

9.3.9.2. Tread shall have adequate rubber to ensure safely completing the full track session.

9.3.9.3. Commercial tire shaving to any depth is allowed. Tires shall not be modified in any other way.

9.3.9.3. Wheels shall be 14 by 6 inches, 14 by 6.5 inches, or 15 by 7 inches, and shall weigh a minimum of thirteen (13) pounds. Any brand, unless specified in these regulations, is allowed.

9.3.9.4. Wheel bearings may be substituted.

9.3.9.5. Wheel bearing lubricant may be substituted.

9.3.9.6. Wheel spacers are permitted.

9.3.9.7. An unmodified spare tire/wheel combination, filled only with air, intended for an E30, with only typical commercial balancing weights attached, and weighing no more than 50 lbs. total may be placed in the stock spare tire well. It must be securely mounted with the stock or similar mounting apparatus (i.e. mount cannot appear to be designed to add weight).

### 9.3.10. Brakes

9.3.10.1. The make and material of brake pads may be replaced, unless specified in these regulations.

9.3.10.2. Brake rotors may be replaced provided they match OEM specifications for the E30 application.

9.3.10.2.1. Vented front rotors are permitted.

9.3.10.3. Cross drilling, grooving, and slotting of rotors is permitted.

9.3.10.4. Rotors may be cryogenically treated.

9.3.10.5. Removal of dust shields (backing plates) is permitted.

9.3.10.6. Brake fluid is free.

9.3.10.7. Flexible rubber brake lines may be replaced with Teflon lined, metal braided hoses.

9.3.10.8. Metal brake lines may be substituted.

9.3.10.9. Parking brake and associated mechanisms, including the parking brake console, may be removed.

9.3.10.10 Competition vehicles equipped with ATE calipers may replace the stock rubber guide pin bushings with brass guide bushings.

### 9.3.11. Differential

9.3.11.1. The final drive ratio for each eligible car is specified in Appendix A.

9.3.11.2. Factory limited slip differentials are permitted.

9.3.11.3. Welding to create a "locked" differential is permitted. After the 2009 racing season, welded differentials will not be allowed.

9.3.11.4. Finned, larger capacity differential covers may be used.

9.3.11.5. Differential lubricant may be substituted.

9.3.11.6 If a limited slip differential is fitted, it must breakaway at 65lb/ft. or less. The lockup will be checked at Impound and within 30 minutes of the conclusion of the race. It will be tested at the center hub nut, using a 30mm socket and commercially available ½" torque wrench. The car will be placed on solid pavement, the right side of the car will be jacked up until the right rear tire is free from the pavement, the transmission will be placed in neutral, and the parking brake, if present, will be released. The torque wrench will be placed at the nine o'clock position with the socket on the center nut. The torque wrench will be set at 65lb/ft. and pushed down. If the differential does not breakaway, a second and impartial similar style torque wrench shall be used in a second test, immediately following the first test. If the differential does not breakaway using the second torque wrench, the car will be disqualified from the preceding race and the DQ will be noted in the car's logbook.

9.3.11.7 One hose may be attached to the factory differential vent pipe/fitting and must be connected to a catch tank.

### 9.3.12. Transmission/Flywheel Assembly

9.3.12.1. Transmission shall be an unmodified factory standard Getrag 260 designated for the US E30 model and shall be stamped with either 260.0.1346.90 or 260.0.1270.90.

9.3.12.1.1. Engine swap cars assume the characteristics (model/year) of the donor car.

9.3.12.2. Transmission lubricant may be replaced.

- 9.3.12.3. Modification to, or replacement of, the shifter mechanism is permitted.
- 9.3.12.4. Shift knobs may be replaced.
- 9.3.12.5. Alternate, non-solid, transmission mounts, providing the same height as original, are permitted.
- 9.3.12.6. Any clutch disc and pressure plate of original diameter may be used provided that they bolt directly to an unmodified stock flywheel.
- 9.3.12.7. Flywheel part number 11 221 709032 may be installed on M42 engines.
- 9.3.12.8. Balancing of the flywheel/clutch/pressure plate assembly is permitted. After balancing, the flywheel must be within factory specifications.
- 9.3.12.9. The vibration damper may be removed.
- 9.3.12.10 One hose may be attached to the factory transmission vent pipe/fitting and must be connected to a catch tank.

### 9.3.13. **Body/Chassis/Interior**

- 9.3.13.1. Driver and passenger seat may be replaced with any race seat, unless specified in these regulations.
- 9.3.13.2. Ballast is permitted, and shall be securely mounted in the passenger foot well, aft of the firewall, and shall be forward of the passenger seat. Alternatively, ballast may be mounted using the passenger seat mounting points, if the passenger seat is removed.
- 9.3.13.2.1. Ballast shall be in segments no heavier than fifty (50) pounds.
- 9.3.13.2.2. Ballast may not exceed one hundred twenty five (125) pounds maximum. Spare Tire weight per 9.3.9.7 is considered separate from this rule and may be added in addition to the allowed 125 pounds.
- 9.3.13.2.3. Each segment shall be fastened with a minimum of two (2) one-half (1/2) inch bolts and positive lock nuts of SAE grade 5 or better unless the ballast is mounted using the four (4) passenger seat mounting points and replacement bolts, and shall utilize large diameter, load distributing washers.
- 9.3.13.2.4. Holes may be drilled in the passenger foot well floor pan for purposes of mounting the ballast and the floor pan may be reinforced for the same purpose.
- 9.3.13.3. Front spoilers, air dams, and splitters are permitted, provided they do not protrude more than two (2) inches beyond the overall outline of the body when viewed from above, perpendicular to the ground, or aft of the forward most part of the fender opening. This body outline does not include bumpers or bumper mounts, but does include the integrated bumper assemblies of 1989 to 1991 models.

- 9.3.13.3.1. Vehicles with integrated bumper assemblies, 1989 to 1991 models, may use aftermarket front one-piece bumper/spoiler unit, provided the original crash bar is maintained.
- 9.3.13.4. The original 325i's rear trunk lid spoiler (lip) or aftermarket product with the same form and fit is permitted.
- 9.3.13.5. Modifications to the underside of the vehicle for the purpose of improving aerodynamics are not allowed.
- 9.3.13.6. Engine under-tray panels may be removed.
- 9.3.13.7. Ducting to the brakes is permitted, and two openings in the front valance to allow the passage of up to a three (3) inch diameter duct leading to each front brake are permitted for this purpose.
- 9.3.13.8. Ducting to the oil cooler is permitted, and openings in the front valance to allow the passage of up to a three (3) inch diameter duct leading to the cooler is permitted for this purpose.
- 9.3.13.9. Fender and wheel openings shall remain unmodified.
  - 9.3.13.9.1. It is permitted to roll under or flatten any interior lip on a wheel opening for tire clearance.
  - 9.3.13.9.2. Non-metallic inner fender liners may be removed.
- 9.3.13.10. Spare tire, tools, and other 'loose' items may be removed.
- 9.3.13.11. A driver's side dead pedal/foot rest may be added.
- 9.3.13.12. Pedal covers may be added.
- 9.3.13.13. Screening of one-fourth (1/4) inch minimum mesh may be added over all openings in the front of the vehicle, contained entirely with the bodywork of the vehicle.
- 9.3.13.14. Water temperature, oil temperature, fuel pressure, oil pressure, exhaust temperature, engine RPM speed (tachometer), and mixture gauges are permitted, but shall be securely mounted and may perform no secondary function.
- 9.3.13.15. Interior mirror(s) may be replaced, the replacement mirror shall not extend beyond the confines of the interior of the vehicle.
- 9.3.13.16. Driver's side outside mirror glass may be modified. Mirror housing shall remain stock and in the stock location.
- 9.3.13.17. Two-way radios may be used.
- 9.3.13.18. Antenna for two-way radio may be added.
- 9.3.13.19. Trunk compartment trim panels may be removed.

9.3.13.20. On board timing receivers are permitted.

9.3.13.21. Windshield washer fluid reservoirs may be modified.

9.3.13.22. The interior, including carpeting, seats, headliner (to include the leading plastic panel), console, radio/cd/cassette/navigation/trip computer systems, OEM seat belts, speakers, glove box door, panels under the dash, grab handles, driver and passenger door (front and rear) window glass and mechanisms, heating and cooling system interior ducts, rear passenger compartment trim panels (side panels and fabric package shelf) and sun visors, may be removed. The third brake light shall remain in place and a custom bracket may be used to secure it to the steel package shelf.

9.3.13.23. Door panels may be replaced with 0.060-inch aluminum or comparable material, securely attached to the door.

9.3.13.24. Any door adjacent to a seat equipped with seat belts or harness shall be capable of being opened from both inside and outside the car.

9.3.13.25. The sunroof cassette mechanism may be removed so long as a replacement panel is either securely sealed (welded/bonded) or secured in place with retaining clips as specified in the CCR.

9.3.13.25.1. The panel shall be flush with the roofline and of the same material as original. A thin and completely flat sheet that is secured to the stock roof is acceptable.

9.3.13.26. Any sound-deadening/insulation and protective materials may be removed from the interior of the passenger, engine, and trunk compartments.

9.3.13.27. Any undercoating or other protective materials may be removed from the underbody.

9.3.13.28. Hood and trunk pins, clips, or positive action external latches are permitted.

9.3.13.28.1. If pins, clips or latches are used the stock releases and components may be removed.

9.3.13.29. Side moldings, side reflectors, etc., may be removed and attachment holes may be filled.

9.3.13.30. Windshield Protection Film may be used. It must be completely clear and must be positioned flat on the glass and within, and cannot touch, the windshield trim molding.

## 10. Appendix A.

Model	Factory Code	Production Years		Factory BHP	Factory Weight	Minimum Weight	lbs/bhp	Final Drive Ratio
318i 4-dr *	E30	1990	1991	134	2657	2600	19.40	4.10
318i Conv *	E30	1990	1991	134	2867	2600	19.40	4.10
318is *	E30	1990	1991	134	2602	2600	19.40	4.10
325i	E30	1987	1988	168	2850	2750	16.37	3.73
325i	E30	1990	1991	168	2811	2750	16.37	3.73
325i	E30	1989	1989	168	2895	2750	16.37	3.73
325i Conv	E30	1987	1990	168	3015	2750	16.37	3.73
325i Conv	E30	1991	1992	168	2988	2750	16.37	3.73
325is	E30	1987	1988	168	2815	2750	16.37	3.73
325is	E30	1989	1991	168	2865	2750	16.37	3.73

## 10. Appendix B. \*

After the 2009 racing season, the 318i and 318is will not be eligible for Spec E30 racing.

## 10. Appendix C. – Allowed ECU models

318iS	E30	M42/B18	90-91	0 261 200 175	Bosch Motronic M1.7
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 153	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 173	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 351	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 380	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 382	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 524	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 525	Bosch Motronic M1.3
325i/is/iX	E30	M20/B25 (170hp)	87-91	0 261 200 526	Bosch Motronic M1.3