

# Carrera 2016 “DTM” NORTH AMERICA FINALS RULES

## RELEASE NOTES:

08/20/16 – Official Release

09/16/16 – Rules/Car List & parts updates & corrections

## DATE/TIME:

Finals Event: 11/19/16

Regional Events: Click on the "Recent/Current Sanctioned Remote Events" menu option on top of this page.

Any shops, clubs or slot car organizations interested in holding a regional event contact Robert Holt by phone (908-397-7886) or e-mail (holtr371@yahoo.com)

## ELIGIBLE DRIVERS:

The top 4 finishers in each Carrera 2016 “DTM” regional event held across N. America not previously qualified are eligible to complete in the N. America Championship race. All drivers that qualify and plan to attend the “Finals Event” should take note that the following rules will be utilized and enforced. Modifications to these rules for “Regional Events” such as the use of different tires or other specific parts or rules are permitted with advanced notification given by the race director for the event. *(Click here for a listing of drivers who have qualified for the Carrera 2016 “DTM” North America Championship to date.)*

## ELIGIBLE CARS:

Only the following Carrera “DTM” cars are permitted – AMG Mercedes C-Coupe DTM, Audi A5 DTM, and the BMW M4 DTM. Only those car models known as being released in 2014, 2015, and 2016 are approved (see approved parts list). If any additional models are introduced and released, they will be reviewed and added to the above list if eligible. See pictures below for eligible car examples:



AMG Mercedes C-Coupe DTM



BMW M4 DTM



Audi A5 DTM



AMG Mercedes C-Coupe DTM



BMW M4 DTM



Audi A5 DTM



AMG Mercedes C-Coupe DTM

**GENERAL:**

Any modifications or parts not specifically addressed in the series rules or are not listed in the approved parts list are not legal and will not be permitted. If the rules stated on this page do not indicate a part or tuning method IS allowed, it is NOT allowed. Any variations to these rules must be approved in advance by GTSLOTS.

**THE BODY:**

Bodies may not be modified, lightened, or cut in any way - including wheel wells, body posts, interiors, etc. EXCEPTIONS: Sharp edges and burrs may be cleaned up only to permit the proper seating of the body onto the chassis. Cars must start each race with any and all front and rear spoilers/wings, bumpers, and air scoops in place as provided with the car. Antennas, headlight covers, mirrors, and small aerodynamic trim tabs (winglets) may be missing, but should be replaced when possible. Bodies can be custom painted; however, they must have proper numbers on the top, and both sides as is prototypical. Bodies must be attached by any and all screws locations provided by the factory, any manufacturer's screws may be used, and any manufacturer's shims are permitted to adjust chassis/body tweak and height. All cars must use the complete and unmodified interior w/driver figure. If body screws are run loose, tape must be placed over the holes in bottom of chassis. Windows must remain transparent.

**CHASSIS:**

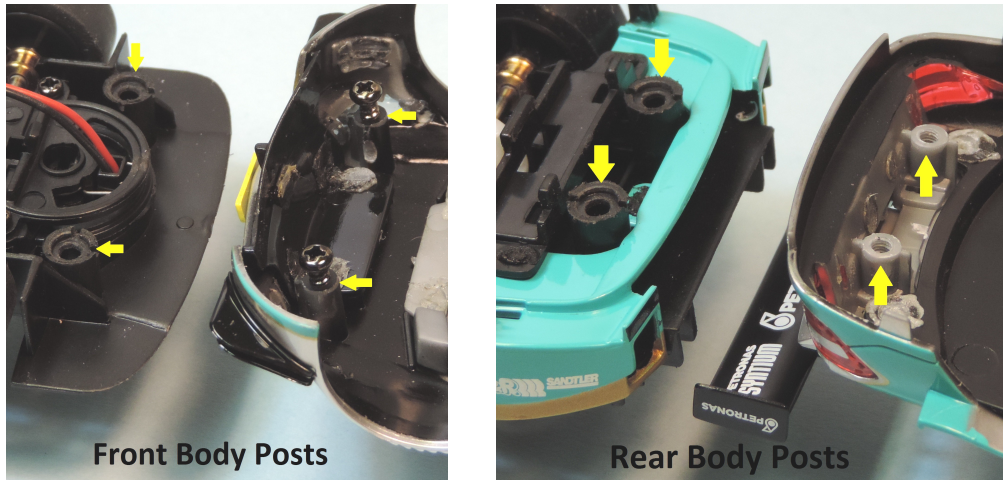
NO TRACTION MAGNETS. Stock Carrera chassis only. Slight sanding of the edges of the chassis and the cleanup of sharp edges and burrs is permitted for the proper seating of the body onto the chassis. No more than .010” of material should be removed. If a standard credit card can be passed in the gap between the body and the chassis, the sanding has exceeded tolerance and the car may fail inspection. NO modifications to axle mounts front or rear are permitted.

**CAR SPECIFIC ALLOWED MODIFICATIONS:**

In order to foster competition and create parity between the different models of the Carrera “DTM” cars, the following approved modifications are being permitted on a car by car basis (Note: all modifications should be made in a clean and professional manner and not deter from the proper “look” of the car). Any such modifications are made at the racer's own risk:

**General (all cars):**

- On those cars' who's chassis has body post receivers that are cupped, the body post receivers on the chassis may be chamfered (not removed) using a countersink, a drill bit, or other means to allow for the free movement of the body posts. In addition, the ends of the body posts may also be slightly tapered to also allow for their free movement of the body posts in the body post receivers on the chassis. See pictures below for examples:



**AMG Mercedes C-Coupe DTM:** none required at this time

**Audi A5 DTM:** none required at this time

**BMW M3 DTM:** none required at this time

**BMW M4 DTM:** none required at this time

#### **AXLES\BUSHINGS\WHEELS\TIRES:**

Only the stock or approved replacement Carrera front axle/bearing/wheel/tire and rear axle/bearing/gear/wheel assemblies may be used (see approved parts list for correct car by car replacements). Wheels may be painted. CA (Super) glue may be used to repair loose or attach plastic wheels.

Front wheels/tires may be glued and trued. Axle shims are permitted.

Rear wheels may be trued.

The rear axle/bearing/gear/wheel assemble may be glued in place; however it is recommend that if done, that an easily removable adhesive be used, and any such modification is made at the racer's own risk.

Approved rear tires:

“Quick Slicks” #CA02 or #CA03 silicon tires. All rear tires to be supplied by race host (Regional) or GTSLOTS (Regional and Finals) on race day unless otherwise noted. The front wheels and tires may not exceed past the body at the wheel wells. The rear wheels and tires should fit within the wheel wells when possible, but may not exceed past the body at the wheel wells by more than .020” (0.5mm). No chemicals may be used on the tires. Regional hosts can determine tires to be used for their regional race. (Note: “hand out” rear tire selection subject to change due to product availability.)

Tire size chart:

CA02	-	(.380”x.862”)
CA03	-	(.380”x.882”)

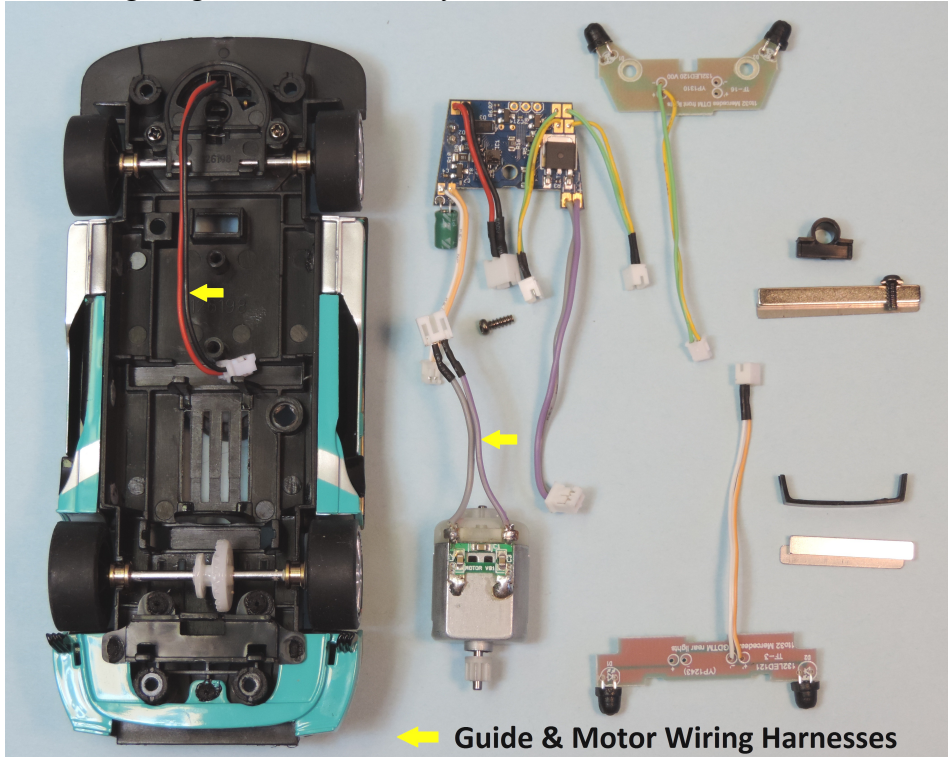
#### **GEARING:**

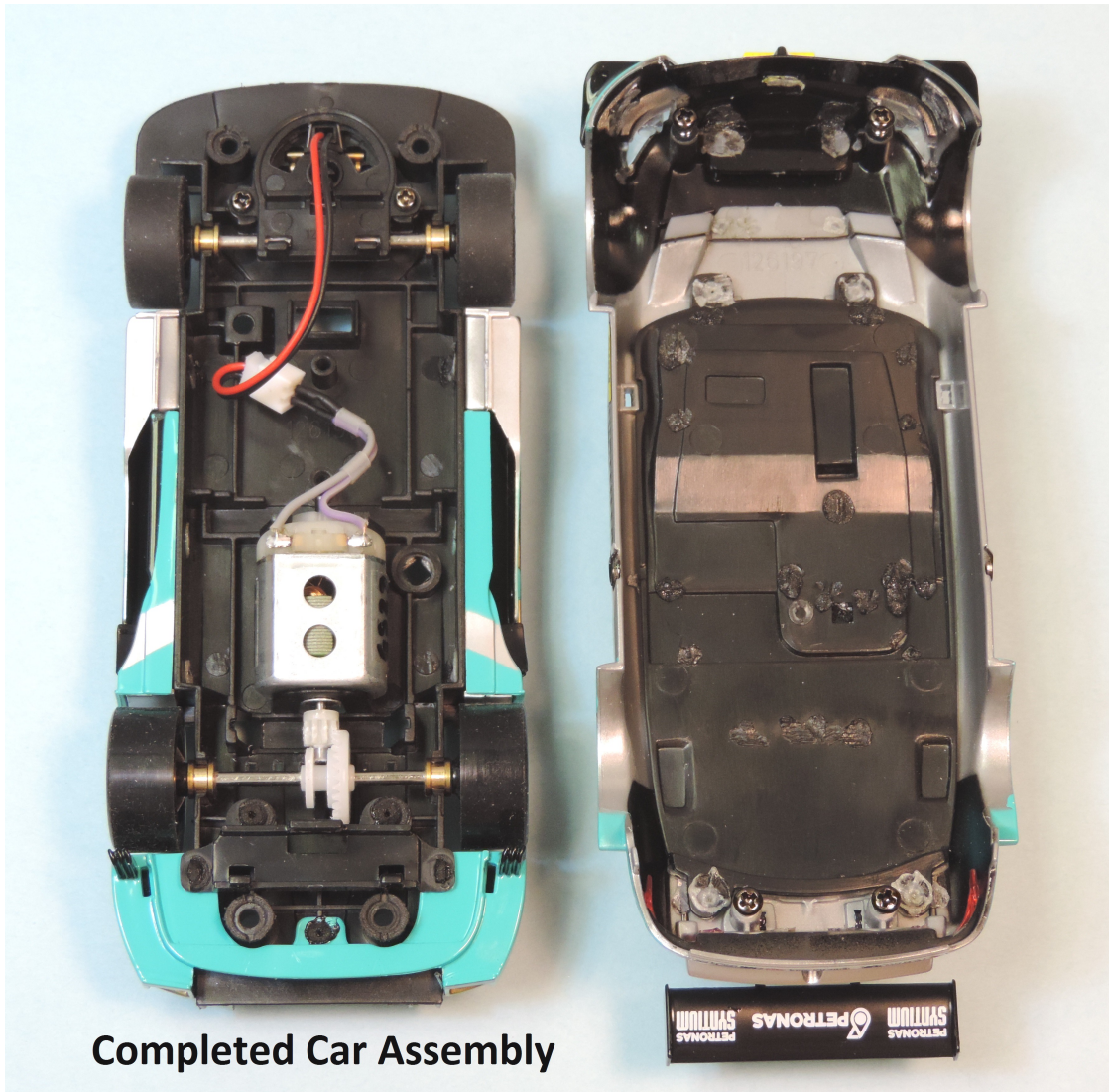
ONLY the stock Carrera 9 tooth 5.5 mm plastic pinion and the stock plastic 27 tooth (ratio – 3.00) in-line crown gears are permitted. **The pinion may be glued to the motor shaft, however any such modification is made at the racer’s own risk.** Driver may apply grease to the gears.

**GUIDE BLADES/BRAID/ELECTRICAL:**

ONLY the stock Carrera guide blade and braid may be used with a minimum amount of removal of sharp edges and burrs to allow for proper operation. The stock or replacement guide keels may be used (see approved parts list for correct car by car replacements).

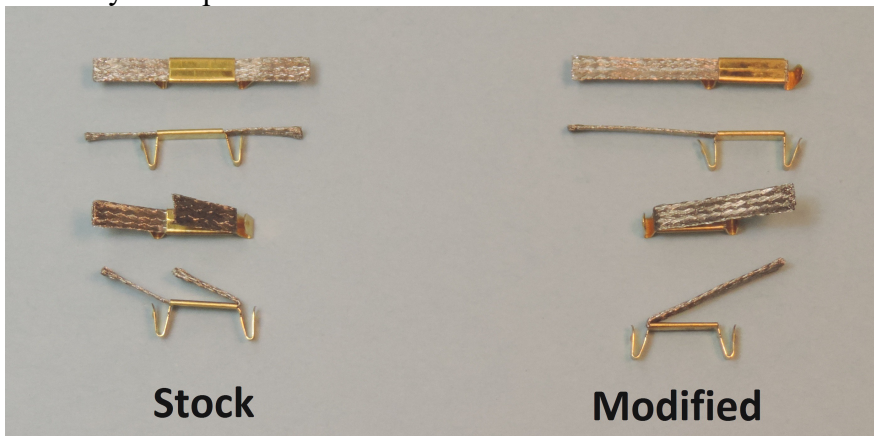
The stock guide and motor wiring harnesses are to be retained and utilized. The motor wiring harness is to be removed from the stock motor and attached to the replacement motor. All remaining electronic boards, lighting, switches, etc. may be removed and maintained for later use. See pictures below:





Wires may be held in place and supported on the chassis using tape, heat shrink tubing, and/or silicone adhesive.

The guide braid may be modified by loosening the brass wrapper (if needed), sliding the braid to the forward end, retightening the brass wrapper, folding the braid back, and inserting the braid into the guide assembly. See picture below:



**MOTOR:**

Regional Events (2 options available):

Option 1 – Handout motors (GTSLOTS black and/or white endbell short can also known as the Piranha 21.5k – rated 21.5k @12volts) who’s price would be included in the race entry fee would be available for purchase from GTSLOTS (contact Rich at GTSLOTS or technical contacts shown below for pricing and availability) to the race host prior to the race date. Motors will be pre-tested and marked with an ID code (a report form can be supplied including motor test data); racers will provide their own pinion gears (stock plastic Carrera 9 tooth, 5.5mm); trim the motor shafts as required; and will be responsible for the proper soldering of the lead wires to the motor tabs without overheating the tabs and causing damage to the motor. No chemicals (example: Voo Doo drops, etc.) shall be added to the motors. For the sole purpose to hold the motor in place, motors may ONLY be attached in place in the chassis by using a single piece of tape supplied by the race host. Holes may be cut out of the tape to allow for cooling over the motor vent holes. Racers would receive their handout motor at a predetermined time at the event, have the opportunity to test/practice with the handout motor before the start of competition, the option to purchase a replacement motor prior to the start of competition, and keep the motor(s) at the conclusion of the event.

Option 2 – Motors provided by the race host or racers themselves using the appropriate stock plastic Carrera 9 tooth, 5.5mm pinion. It is suggested that the motors of the top 5 finishers be tested at the conclusion of the event to confirm legality with the results (if tested) provided to GTSLOTS along with the event race results. (NOTE: Contact GTSLOT technical contacts shown below for additional information on the testing of motors.)

Finals:

Only the provided handout (GTSLOTS black and/or white endbell short can also known as the Piranha 21.5k – rated 21.5k @12volts) motor is legal for the N. America Finals event and will be supplied by GTSLOTS. Motors will be pre-tested and marked with an ID code; racers will provide their own pinion gears (stock plastic Carrera 9 tooth, 5.5mm); trim the motor shafts as required; and will be responsible for the proper soldering of the lead wires to the motor tabs without overheating the tabs and causing damage to the motor. No chemicals (example: Voo Doo drops, etc.) shall be added to the motors. For the sole purpose to hold the motor in place, motors may ONLY be attached in place in the chassis by using a single piece of tape supplied by the race host. Holes may be cut out of the tape to allow for cooling over the motor vent holes. Racers would receive their handout motor at a predetermined time at the event, have the opportunity to test/practice with the handout motor before the start of competition, the option to purchase a replacement motor prior to the start of competition, and keep the motor(s) at the conclusion of the event.

**WEIGHT:**

Weight may be added to the inside of the chassis if desired. Added weight may not be utilized to alter or limit the function or movement of the front or rear axle assemblies. NO weight may be attached to the underside of the chassis.

**LIGHTING (Optional):**

Not required.

**TRACK VOLTAGE:**

Suggested 12 volts (Note: track power will be set at 12 volts for the N. America finals and the GTSLOTS regional races)

**RACE PROCEDURES:** (as to be used at the N. America finals and GTSLOTS regional events):

- All participating race cars will be inspected to ensure rule compliance. A few test laps (the number to be determined by the race organizer) will be allowed prior to the final inspection.

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- It is the responsibility of each participant to make sure that the front spoiler, chassis, and crown gear of their car has sufficient clearance to the track and pickup rail surface so as not to rub under race conditions and will be inspected for such clearance.
- Cars will be impounded after the inspection process and drivers cannot touch their cars unless done under “green flag” race conditions under the observation of a race official.
- Any controller is permitted, provided that the controller does not store an electrical charge.
- The race director for the event (the race organizer holding the event) will have the final determination if any questions or conflicts arise.
- Drivers and/or their authorized representatives may repair broken or damaged cars (IE: damaged braids, broken wires, loose gears and/or wheels, loose or missing screws, etc.) during “green flag” conditions, only under the view of a race official assigned by the race director, repairs must be properly performed to meet all posted rules, and parts may not be torn or broken off the car where screws are used to retain the parts (IE: the front spoiler, etc.) to perform the repair.
- For any clarification of the race procedures being used at the N. America Finals Championship please contact:

Robert Holt by phone (908-397-7886) or e-mail (holtr371@yahoo.com)

Bob Kuss by phone (610-996-0595) or e-mail (lotus74s6@verizon.net)

## Carrera 2016 “DTM” Approved Parts List:

### Carrera Parts Lists:

#### Approved Cars:

- #20027438 – Analog – Audi A5 DTM “M. Ekstrom, No. 3”,
- #20027439 – Analog – Audi A5 DTM “T. Scheider, No. 4”,
- #20027440 – Analog – AMG Mercedes C-Coupe DTM “J. Green, No.5”, 2012
- #20027441 – Analog – AMG Mercedes C-Coupe DTM “D. Coulthard, No.19”, 2012
- #20027442 – Analog – BMW M3 DTM “T. Tomczyk, No.1”,
- #20027443 – Analog – BMW M3 DTM “B. Spengler, No.7”, 2012
- #20027453 – Analog – Audi A5 DTM “M. Molina, No. 20”, 2013
- #20027471 – Analog – BMW M3 DTM “A. Farfus, No.7”,
- #20027473 – Analog – Audi A5 DTM “M. Rockenfeller, No.1”, 2014
- #20027476 – Analog – AMG Mercedes C-Coupe DTM “R. Wickens, No.10”, 2013
- #20027491 – Analog – AMG Mercedes C-Coupe DTM “G. Paffett, No.2”, 2013 (from 2015 set)
- #20027499 – Analog – BMW M4 DTM “M. Wittmann, No.23”, 2014
- #20027508 – Analog – BMW M4 DTM “T. Glock, No.16”, 2015
- #20027509 – Analog – Audi A5 DTM “M. Molina, No.17”,
- #20027510 – Analog – AMG Mercedes C-Coupe DTM “D. Juncadella, No.12”,
- #20030657 – Digital – Audi A5 DTM “M. Ekstrom, No. 3”,
- #20030658 – Digital – Audi A5 DTM “T. Scheider, No. 4”,
- #20030659 – Digital – AMG Mercedes C-Coupe DTM “J. Green, No.5”, 2012
- #20030660 – Digital – AMG Mercedes C-Coupe DTM “D. Coulthard, No.19”, 2012
- #20030661 – Digital – BMW M3 DTM “T. Tomczyk, No.1”,
- #20030662 – Digital – BMW M3 DTM “B. Spengler, No.7”, 2012
- #20030673 – Digital – BMW M3 DTM “A. Farfus, No.7”,
- #20030674 – Digital – Audi A5 DTM “M. Molina, No. 20”, 2013
- #20030675 – Digital – AMG Mercedes C-Coupe DTM “G. Paffett, No.2”, 2013
- #20030690 – Digital – Audi A5 DTM “Playboy, No. 16”, 2014
- #20030707 – Digital – Audi A5 DTM “M. Rockenfeller, No.1”, 2014
- #20030710 – Digital – AMG Mercedes C-Coupe DTM “R. Wickens, No.10”, 2013
- #20030738 – Digital – BMW M4 DTM “M. Wittmann, No.23”, 2014
- #20030739 – Digital – BMW M4 DTM “J. Hand, No.04”, 2014
- #20030740 – Digital – BMW M4 DTM “T. Glock, No.16”, 2015
- #20030741 – Digital – Audi A5 DTM “M. Molina, No.17”,
- #20030742 – Digital – AMG Mercedes C-Coupe DTM “D. Juncadella, No.12”,

#### Axle Kits (front/rear):

- #89808 – Front & Rear Axles w/Wheels and Gears for all models of (analog & digital) Audi A5 DTM
- #89809 – Front & Rear Axles w/Wheels and Gears for all models of (analog & digital) AMG Mercedes C-Coupe DTM
- #89810 – Front & Rear Axles w/Wheels and Gears for all models of (analog & digital) BMW M3 DTM and BMW M4 DTM

(Note: Axle Kits also include a 9 tooth, 5.5mm pinion gear)



Guide Blades, Keels, and braid:

- #20020365 – Double Sliding Contact Braid
- #20020366 – Stock Guide Keel w/ Double Sliding Contact Braid
- #20085309 – Short Guide Keel w/ Double Sliding Contact Braid

Accessories Repair Kits:

- #89749 – Accessories Kit for #20027443 & #20030662 (BMW M3 DTM #7)
- #89789 – Accessories Kit for #20027438 & #20030657 (Audi A5 DTM #3)
- #89790 – Accessories Kit for #20027439 & #20030658 (Audi A5 DTM #4)
- #89791 – Accessories Kit for #20027440 & #20030659 (Audi A5 DTM #5)
- #89792 – Accessories Kit for #20027441 & #20030660 (AMG Mercedes C-Coupe DTM #19)
- #89793 – Accessories Kit for #20027442 & #20030661 (BMW M3 DTM #1)
- #89825 – Accessories Kit for #20027453 & #20030674 (Audi A5 DTM #20)
- #89849 – Accessories Kit for #20027471 & #20030673 (BMW M3 DTM #7)
- #89852 – Accessories Kit for #20027473 & #20030707 (Audi A5 DTM #1)
- #89855 – Accessories Kit for #20027476 & #20030710 (AMG Mercedes C-Coupe DTM #10)
- #89868 – Accessories Kit for #20027499 & #20030738 (BMW M4 DTM #23)
- #90262 – Accessories Kit for #20027491 & #20030675 (AMG Mercedes C-Coupe DTM #3)
- #90271 – Accessories Kit for #20030739 (BMW M4 DTM #4)

Tires:

- #89800 – Front & Rear Tires for all models of (analog & digital) Audi A5 DTM
- #89800 – Front & Rear Tires for all models of (analog & digital) AMG Mercedes C-Coupe DTM
- #89800 – Front & Rear Tires for all models of (analog & digital) BMW M3 DTM and BMW M4 DTM

Other manufacture’s approved parts:

Axle & Body Spacers:

Any manufacturer’s spacers are permitted.

Motor:

GTSlots 21.5k motor (Piranha 21.5k) – black or white endbell

Screws:

Any manufacturer’s screws are permitted.

Tires (Rear):

- #CA02 – Quick Slicks Silicone Tires
- #CA03 – Quick Slicks Silicone Tires