

IMSA TECHNICAL BULLETIN ICTSC #17-02

To: All IMSA Continental Tire Sportscar Challenge Competitors
 From: IMSA Competition
 Date: 30 December 2016
 Re: 20170106 IWSC Daytona ROAR: GS and ST Balance of Performance

In accordance with Attachment 2 of the IMSA Continental Tire Sportscar Challenge SSR, the following adjustments are made to the indicated cars. The column listed as current is the current specification after the adjustment is applied and thus the required specification for the event. These decisions come into immediate effect and are applicable until further notice.

IMSA has determined the values listed in all tables based upon Manufacturer submitted data and IMSA's data analysis.

GS	Vehicles	Mass		Engine					Ride Height		Fuel				Notes			
	Manufacturer	No Fuel/Driver (lbs)		Restrictor (mm)			Maximum Boost	Maximum RPM		Minimum Ground Clearance (mm)		Type	Tank Capacity (G)		Refueling Restrictor			
		adj	current	qty.	adj	current		adj	current	adj	current		adj	current	adj	current		
	Event:	20161213 ICTSC Daytona Test		Bulletin:			Date: 12/30/2016											
	Aston Martin	V8 Vantage GT4		3000								IMSA 100			18.5		1"	
	Aston Martin	V8 Vantage GS		3000				1-4, 6: 7300 5th: 7500	0	3.5	0	3.5	IMSA 100	0.0	18.5		1"	
	Ford	Mustang GT4		3200					0		0	IMSA 100	0.0	21.0		1"	SRO ECU Calibration as approved by IMSA	
	McLaren	570S GT4		3295					0		0	IMSA 100	0.0	20.0		1"	SRO 2016 BoP ECU Calibration	
	Porsche	Cayman GT4 CS MR		2845					0		0	IMSA 100	0.0	19.5		1"		
	Porsche	Cayman GT4 CS GS		2940					0	3.5	0	3.5	IMSA 100	0.0	19.5		1"	Must use 22mm wicker and ECU Calibration from PMNA

* All engine restrictor geometry must comply with the approved design and be registered and approved by IMSA prior to competition.

Audi S3 2015+ ST

Final Drive: 4.769:1 / 3.444:1

Fuel capacity: **TBD**

Weight: 2920 lbs.

Tire size: 225/45/18

Maximum RPM 6600

Maximum Boost Pressure 2080 mbar Absolute

- Must use OEM ECU
- Must use OEM Audi S-Tronic Transmission

Approved Modifications

1. May install fuel cell.
2. May relocate battery between rear strut towers

Permitted Replacement Components

1. Carbon hood

BMW 328i (F30) sedan ST

Final Drive: 3.91:1

Fuel capacity: **TBD**

Weight: 2870 lbs.

Tire size 225/45/17

Maximum RPM 7000

Maximum boost 2360 mbar Absolute

Approved Modifications

1. E90 hydraulic power steering with approved installation parts by BimmerWorld.
2. May modify OEM radiator shrouding and grille per specification on file

Permitted replacement components

1. BMW supplied OEM 330i brake calipers.
2. 3rd party controller (Motec) for OEM boost control valve
3. May use Bosch MS 4.3 ECU.
4. May install fuel cell
5. Electric water pump.
6. F_30_F_Steer RIGHT and LEFT mounting brackets for steering rack.
7. Seibon Carbon Hood Part number HD1213BMWF30-OE or Bimmerworld part # 138.41.630.0001
8. Seibon Carbon Deck Lid Part number TL1213BMWF30 or Bimmerworld part # 138.41.630.0002
9. Bimmerworld Short Shifter kit
10. BMW Sport Bumpers and grilles. Front : 51-11-8-055-826 Rear : 51-12-8-056-497
11. Front Control Arm Bushing kit: Dinan Part #: D280-0008 or BimmerWorld Kit# BW.FLCAB
12. Bimmerworld Intercooler part # CR.CC.K1129
13. May use IMSA approved ABS Controller
14. Bimmerworld rear toe link p/n 100.33.630.0002

BMW 228i (F22) ST

Final Drive: 3.08:1

Fuel capacity: **TBD**

Weight: 2850 lbs

Tire size 225/45/18

Maximum RPM 7000

Maximum Boost 2400 mbar absolute

Must use BMW 8-Speed Gearbox

Approved Modifications

1. May install fuel cell.
2. May use IMSA approved ABS Controller
3. May use IMSA approved ECU (Motec M1)

Permitted replacement components

1. Electric Water Pump
2. Dinan Intercooler (Part # D330-0021)
3. BMW M Sport bumpers and grille (Front# 51-11-8-059-017, Rear #s: 51-12-8-055-965, # 51-12-8-055-572)
4. BMW supplied OEM 330i brake calipers.
5. Rear Toe Link Kit, Dinan (Part # R280-0012), with eccentric adjustment locked out
6. May use lightweight battery

Honda Civic Si 2012-2013 ST

Final Drive: 4.76:1

Fuel capacity: **TBD**

Weight: 2590 lbs

Tire size: 225/45/17

Maximum RPM 8050

- Must use Honda Flashpro
- Must use unmodified Honda Sealed Engine P/N 1011A-RX0-R00

Approved Modifications

1. May install fuel cell.
2. May remove vertical strakes from underside of front fender liners.
3. Battery may be located in trunk centered between the rear damper towers.

Permitted replacement components

4. Honda ABS controller # 57110-F235-A51
5. Honda Intake manifold 17100-RRC-000
6. Honda Exhaust header #18100-F23S-A10
7. Rear Camber Arm
8. Honda 2014 Bodywork/styling.
9. HPD Brake Kit p/ns Right: 45221-F23S-A00 Left: 45226-F23S-A00
10. HPD P/N 50830-F23S-A00 Motor Mount and required bracket
11. Carbon Hood

Mazda MX 5 Miata ST

Final Drive: 4.10:1

Fuel capacity: **TBD**

Weight: 2470 lbs.

Tire size: 225/45/17

Maximum RPM 8100

- Must use Mazda supplied hardtop, part # NFY2-R1-82XE-XX.
- Must use Mazda OEM 6 speed

Approved Modifications

1. May install fuel cell.
2. May remove vertical strakes from front fender liners

Permitted replacement components

1. Mazda Speed Header, part # 0000-06-5407 or 0000-06-5406
2. May use Bosch MS 4.3 ECU
3. Mazda Speed Piston kit, part # 0000-01-5207
4. BMW supplied, part # C19-09-07A, Throttle pedal.
5. Mazda connecting rod Part # 0000-01-3512
6. Mazda Flywheel Part # 0000-02-5309
7. Camshaft (specification on file)
8. OEM 2013 front fascia (PN NPY2-50-03XC-BB) grill, headlights, fog lights, and associated hardware.
9. Mazda offset camber bushing kit P/N 0000-04-5407
10. May use RX8 front calipers/rotors

MINI Cooper JCW 2015- ST

Final Drive: 3.59

Fuel capacity: **TBD**

Weight: 2540 lbs

Tire size: 225/45/17

Maximum Boost Pressure: 2170 mbar Absolute

Approved Modifications

1. May install fuel cell.

Nissan Altima V6 ST

Final Drive: 4.3

Fuel capacity: **TBD**

Weight: 2720 lbs.

Tire size: 225/45/17

Maximum RPM: 7000

Standard variable intake manifold must be fixed in "high speed" position.

Approved Modifications

1. May install fuel cell
2. May relocate battery inside trunk between shock towers

Permitted replacement components

- 1 Nissan Motorsports Exhaust header #14002-GA33A Contact
- 2 Nissan Motorsports Rear Camber arms #43018-GA33A s
- 3 Nissan Motorsports Rear Toe arms #43019-GA33A
- 4 Nissan Motorsports Front Brake caliper LH #41001-EJ20A
- 5 Nissan Motorsports Front Brake caliper RH #41001-EJ20A
- 6 Front brake rotor 320 mm x 32 mm
- 7 Nissan Brake Caliper kit # CTSCC-FB01
- 8 Carbon Hood

Porsche Boxster 2.9L ST

Eligible until Dec 31, 2018

Final Drive: 3.88:1

Fuel capacity: **TBD**

Weight 2960 lbs.

Tire size: front 225/45/17 rear 245/45/17

Maximum RPM 7250

Engine Restrictor: IMSA supplied 50mm radiused flat plate

- Must use production hard top with production glass window.
- Rear wing must be fixed in the up position

Approved Modifications

- 1 Allowed 3" diameter Brake Duct opening in radiator inlets.
- 2 May remove vertical strakes from front fender liners
- 3 May modify rear caliper pins for rotor clearance
- 4 May trim outer radiator ducting per specifications on file

Permitted replacement components

1. OEM six speed transmission
2. 996 front calipers and rotors
3. Aftermarket exhaust manifold
4. Must use stock ECU from Porsche.
5. Two Piece lower control arm with inner mono-ball bushing.
6. GT3 style adjustable inside rear toe link.
7. IMSA approved aftermarket ABS controller.
8. Brake ducts 997.575.231.91, 997.575.232.91, 996.341.118.91, 996.341.117.91
9. Fender Liners 997.504.123.90, 997.504.124.90
10. Short shifter as approved by IMSA

Porsche Cayman 2.9L ST

Eligible until Dec 31, 2018

Final Drive: 3.88:1

Fuel capacity: **TBD**

Weight: 2960 lbs

Tire size: front 225/45/17 rear 245/45/17

Maximum RPM 7250

Engine Restrictor: IMSA supplied 50mm radiused flat plate

Approved Modifications

- 1 3" diameter Brake Duct opening in radiator inlets.
- 2 Rear wing must be fixed in the up position
- 3 May remove vertical strakes from front fender liners
- 4 May modify rear caliper pins for rotor clearance
- 5 May trim outer radiator ducting per specifications on file

Permitted replacement components

1. OEM six speed transmission
2. 996 front calipers and rotors.
3. Aftermarket exhaust manifold
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7. IMSA approved aftermarket ABS controller.
8. Brake ducts 997.575.231.91, 997.575.232.91, 996.341.118.91, 996.341.117.91
9. Fender Liners 997.504.123.90, 997.504.124.90
10. Short shifter as approved by IMSA