



EIGHTY-SIX CHALLENGE THAILAND

TECHNICAL REGULATIONS

Organized by:

Racewerks

Racewerks Co., Ltd

Version: V2/042026



Introduction

The Eighty-Six Challenge is a one make race Series Based on Series Production Rear Wheel Drive Toyota GR86

The Objective of the series is to provide a cost-effective professional race series.

1.00 Definitions

Attachment

Camera: Any cameras or video recording device

Car: Toyota GR86 Cup Basic

CM - Category Manager

Data System – AIM Solo 2 Datalogger supplied with car

Driver Weight – Weight of the driver with full racing gear

DSA - Driver Standard Advisor

Entrant / Team

Event - an event of the Series

Line Group - Racewerks Line Group to Communicate to Team Managers

IP – Intellectual Property

Racewerks – Event organizer

Regulations – Technical Regulations

RD - Race Director

RTM - Racewerks Technical manager

Series - Eighty-Six Challenge in TSS 2026

Transponder - Timing Transponder

TSS - Thailand Super Series

TR – Technical Representative



2.00 Series

- 2.10 The Series will be run and promoted by Racewerks Co.,Ltd
- 2.11 Racewerks shall appoint Thailand Super Series (TSS) to support the organization and operational management of the Series
- 2.12 All Contact will be made through Racewerks Co., Ltd
- 2.13 Contact Information:
Email: Info@racewerks.org
Tel: +66 (0) 84-215-6868
Address: Racewerks Co., Ltd
125 Sukhumvit 42, Prakhanong, Klongtoey,
Bangkok 10110 Thailand.
- 2.14 The 2026 Series will consist of the following event rounds:

Official Test Days – Chang International Circuit - 22-23rd April
Round 1: Chang International Circuit - 21-24th May
Round 2: Bangsaen Street Circuit - 1-5th July
Round 3: Sepang International Circuit - 21-23rd August
Round 4: Sepang International Circuit - 18-20th September
Round 5: Chang International Circuit - 30th Oct - 1st November
- 2.15 An official Line Group will be used for communication between Race Organizer and Teams before, during and after a race weekend, each team shall have 1 dedicated person only. All Teams must register a Team Manager for any contact from Racewerks
- 2.16 Team Managers briefing may be held during a race weekend – Only 1 Manager may attend accordingly.
- 2.17 Any meetings will be published via the official communication channels.
- 2.18 A Drivers Briefing will be held as per Thailand Super Series Time Table; all drivers are required to attend as per TSS Sporting Regulation 2026 Clause A.29.
- 2.19 There will be no verbal Clarification of Rules.



3.00 The Car

- 3.10 The Car is a Toyota GR86 Cup Basic which has been upgraded to the “Eighty-Six Challenge Thailand” specifications
- 3.11 Only Registered / Homologated vehicles by Racewerks may enter the race.
- 3.12 The Cars will be fitted with a list of Additional Parts fitted by Racewerks, as per **Attachment A**
- 3.13 Racewerks can update Attachment A and any other Attachment with Amendments if needed through the season for the main focus of safety of the drivers and reliability of the cars.
- 3.14 No additional modifications are allowed.
- 3.15 The Car must only use parts that are Original Toyota and upgraded parts from Racewerks specifications.
- 3.16 The Teams must run the Car in the Official Test Days and Series under all aspects of the Regulations
- 3.17 Racewerks can check and ask to check that all Cars adhere to these regulations at all times.
- 3.18 It is the Responsibility of the Teams to ensure their Cars meet all Regulations.
- 3.19 All matters regarding Cars and their eligibility and all equipment must be submitted To info@racewerks.org
- 3.20 Competitors are not permitted to remove Race Cars from the Circuit once the Race Round has officially started without seeking permission from Racewerks.
- 3.21 Once the Race Round has Officially Started, only the Car the Team has entered can be used, unless authorized in writing from Racewerks.

4.00 Seal and Sealing Requirements

- 4.10 The Seals must be fitted in the Position of **Attachment B**
- 4.11 It is the teams responsibility to ensure the seals remain intact for the duration of the Race Season.
- 4.12 If a Seal is damaged, the Competitor must inform Racewerks Contact Person Immediately.
- 4.13 Permission must be sought from Racewerks before the seal is removed (breaking) during or after any race meeting throughout the season via the official email.
- 4.14 When away from Race Meeting, permission is still needed from Racewerks by Official email to Racewerks to remove / reseal any seals, Racewerks reserves the right to request a full check of the car including dyno tests if needed, such expense should be paid by the Team.

5.00 Scrutineering

- 5.10 The Cars will be Scrutineered by TSS as per TSS Sporting Regulation 2026 Clause A.27 and Racewerks Staff and TR Staff
- 5.11 Cars will be inspected before first Practice Session to get sticker allowing them to Start Practice 1.
- 5.12 **Attachment C** are items that may be checked.
- 5.13 Driver Safety Equipment must also be checked before Practice 1 as per Clause 6.0 Safety Equipment
- 5.14 The Aim Solo Dash and Camera will be used for Scrutineering and Stewards for Qualifying and Races.
- 5.15 The cars will be in Parc feme after Qualifying and Races.
- 5.16 Racewerks can download data from all cars needed for Scrutineering and Take Camera cards where needed.
- 5.17 The Cars will be released from Scrutineering over the Official Line group by Racewerks / TSS.



- 5.18 Racewerks can also check ECU data where needed. No ECU modifications allowed, ECU must be checked by Racewerks. Racewerks technical team may at their own discretion plug-in to the cars ECU at any given time during a race weekend
- 5.19 Teams do not have access to ECU Data.
- 5.20 The Tire Manufacture may collect tire data after Practice, Qualifying and Races. Tire Pressures and measurements also in Parc feme.
- 5.21 The Tire Manufacture may impose a Max Camber Setting and Min Cold Tire Pressure. This will be updated in **Attachment D**
- 5.23 Minimum Ride Height and Measurement points will be in **Attachment E**

6.0 Safety Equipment

- 6.1 General Requirements: All Drivers must wear and use the mandatory safety equipment specified below at all times during Practice Sessions, Qualifying Sessions, and Races.
- 6.2 Helmet
 - The Driver's helmet shall comply with one of the following FIA Standards:
 - FIA 8860-2018 & FIA 8860-2018 ABP
 - FIA 8860-2010
 - FIA 8859-2024 - FIA 8859-2024 ABP
 - FIA 8859-2015
 - The helmet must:
 - a) Be in sound condition and fit for use;
 - b) Not be modified in any way from its original manufactured state, including drilling or alteration;
 - c) Be included in FIA Technical List No. 25, available at:
<https://www.fia.com/regulation/category/761>
- 6.3 Head and Neck Support (HANS)
 - A Head and Neck Support system (HANS) is mandatory and must comply with FIA Standard 8858-2002 or 8858-2010.
- 6.4 Protective Clothing – Outer Layer
 - The following items must be fire-resistant and comply with FIA Standard 8856-2000 (manufactured from 2014 onwards) or FIA Standard 8856-2018:
 - Racing suit
 - Gloves
 - Boots
 - Socks
 - All items must: Be in good condition, show no signs of tearing or damage, Have all seams fully intact.
- 6.5 Protective Clothing – Base Layer
 - The following items must comply with FIA Standard 8856-2000 or FIA Standard 8856-2018:
 - Balaclava
 - Fire-resistant long-sleeve top
 - Fire-resistant long underwear (base layer)
 - Socks
 - All items must be in good condition, with no tears or damaged seams.
- 6.6 Suit Modifications and Logos - Any logos, badges, or embroidery affixed to the racing suit must not penetrate, stitch through, or otherwise compromise the fire-resistant layer under any circumstances.



- 6.6 Undergarments worn beneath the homologated protective equipment must not contain nylon or any synthetic materials that may melt when exposed to heat.
- 6.7 Compliance - Failure to comply with the above requirements may result in the Driver being refused permission to participate or being subject to penalties as determined by the Stewards

7.00 Weight

- 7.10 Car Weight includes driver + safety gear and Cool suit (if any) as finishes Qualifying or Races
- 7.11 Driver Weight - min 80 kg.
- 7.12 The Scrutineering Scales at TSS will be the Official Scales for Series.
- 7.13 Official Scales will be available from Friday at Circuits.
- 7.14 Drink Bottle - max 1 Liter. Must be empty for Car Weight measurements.
- 7.15 Driver Cooling may be included in Car Weight
- 7.16 If Ballast is required, this must adhere to safety standard specified by Racewerks.
- 7.17 Official Car weight (Clause 7.1) will be 1295 KG, Racewerks may revise official Car weight during the season.
- 7.18 Driver Weight must be completed with Scrutineering within official practise 2.

8.00 Data System and Camera

- 8.10 Only the Aim System that is supplied by Racewerks can be used.
- 8.11 No other system can be used.
- 8.13 The Data system and Camera must be operational in all Practice, Qual and Races.
- 8.14 It is up to the Competitors to ensure these are working and have Camera memory card in As per 2026 TSS Technical Regulations Supercar clause B.7
- 8.15 Where needed Racewerks may have extra sensors or cameras fitted to any car for Purpose of Promotion and Data collection for the Series.
- 8.16 All Data and Video collected is the IP of Racewerks.
- 8.17 Data System Spec's and sensor list can be found in **Attachment F**
- 8.18 Timing Transponder - will be supplied by TSS.

9.00 Tires & Suspension

- 9.00 The Series Tire Supplier will be: Yokohama Advan Tires
- 9.10 They will be Sole Tire Supplier for Eighty-Six Challenge Thailand 2026, all tires must be purchased from Racewerks
- 9.11 The Tire size: 225-45/17
Tire Model: Yokohama Advan A052
- 9.12 Min tire Tread: 1.6mm, specified measuring point shown in **Attachment C**
- 9.13 Max Number of Tires per round for Qualifying and Races:
 - TSS Buriram Rounds: 2 x Sets for Qual and 2 Races
 - TSS Bangsaen Round: 2 x sets for Qual and Races
 - TSS Sepang Rounds: 2 x Sets for Qual and Races
- 9.14 For safety considerations, Racewerks reserves the right to adjust the maximum number of permitted tires in accordance with specific circuit requirements.
- 9.15 Front Camber Max: Refer Attachment D
- 9.16 Rear Camber Max: Refer Attachment D
- 9.17 Min Cold Starting Pressure: **To be confirmed
- 9.18 Min Tire Pressure can be checked at any time of the day for Qualifying & Race Tires
- 9.19 Cold Starting Pressure must be above Min Tire Pressure
- 9.20 TSS Camber gauge will be the official measurement tool
- 9.21 Racewerks will supply the official tire pressure gauges that will be used to do pressures for Ride Height at 1.5 Bar

- 9.22 One side of Front & Rear Anti-roll bar must always be connected.
- 9.23 The Shock absorbers and springs must stay as standard as supplied from Racewerks

10.00 Fuel

- 10.10 Fuel Supplier and Specification for Thailand rounds: Bangchak – 98 Premium Octane
- 10.11 Fuel Supplier and Specifications for Sepang rounds: To be confirmed.
- 10.13 Fuel must be purchased through Racewerks in advance, no later then 7 working days before each event.
- 10.14 Racewerks shall publish the fuel price 14 days prior to each event.
- 10.15 No refuelling may be done during sessions unless permitted by Racewerks
- 10.16 Each Team must have Fire Extinguisher person with Fire Extinguisher at all times when Refuelling. A Minimum 4.5 kg Dry Powder Extinguisher must be used.
- 10.17 Car must finish Race with at least 1 litre of fuel for samples

11.00 Lubricants

- 11.10 For safety and reliability, all cars must use the oil and lubrication specs specified by Racewerks as per **Attachment G**
- 11.11 Racewerks may perform routine checks throughout the race events
- 11.12 Racewerks has the right to decline the use of any oil or lubricants for the purpose of safety and reliability of the cars

12.00 Radio System

- 12.10 All Cars must be fitted with a radio System.
- 12.11 1 Person from Each Team must be in Contact with car at all Times before and during Practice, Qualifying and Races.
- 12.12 Radio and aerial Placement must be installed in the allocated area as per **Attachment H**

13.00 Competition Number and Compulsory signage on cars.

- 13.10 Car numbers must be installed as per TSS Supercar Technical Regulations 2026 – Clause C2
- 13.11 Mandatory Sponsor Logo placement may be found on Attachment
- 13.12 All cars must be equipped with extinguisher and electrical cut-off Signage operable from both the passenger compartment and outside, the location of the outside switches must be clearly indicated by an electric cut-off sign not smaller than a triangular base of 100mm with red arrow and blue background.



Or





Attachment A - Car Specifications

Engine

Engine: Engine Version: FA24 - No Modifications to any part of the Engine or engine Bay.

ECU: Factory ECU – NO software modifications allowed

Gearbox

Clutch and Flywheel must be factory:

Clutch Part No: SU003-08588

Flywheel Part No: SU00-309001

Flywheel weight: TBC

Rear Differential

Factory Cup Car Basic Diff may be used only. Teams may not adjust Diff in any way.

Part No: TBC

Diff break away may be checked during the race weekend

Suspension

Tien Mono Racing Suspension – Part No: VKAGG-1AYA1-R with Eighty-Six Challenge Homologation

Front Spring Part No:

Rear Spring Part No:

All Parts must be supplied by Racewerks only.

All parts must be fitted in their correct position and direction as found in Toyota Parts Manual.

The Parts cannot be Modified in any way.

Brakes

Brake Pads: Project MU Asia – Eighty-Six Challenge Homologation

Brake Caliper: Factory Calliper - Part no: SU00311424 / SU00311425

Brake Disc front: Brembo: 59.E.114.44, rear: Brembo: 59.E115.95

Safety Cage:

Factory Toyota GR86 Cup Basic Roll cage only

Safety Equipment

Sparco FIA Seat: Part No: Circuit QRT 1&2

Sparco Fire Extinguisher – Part No: 014778EXL2 – 2.5L

Sparco FIA Safety Net – Part No: 002198FA

Sparco quick release steering wheel: Part No: 015R98R

Sparco steering wheel: Part No: 015R350CS0

Cartek Battery cut off – Part No: CK-BXC-06-R

Sparco FIA Toe Hooks – Part No: 01637RS

Wheels: TOMS Racing Wheel: Part No: TWFC-01

Size: 17x8.5J +35 – Eighty-Six Challenge Homologation

Tires: Yokohama Advan A052 – size: 225/45ZR17

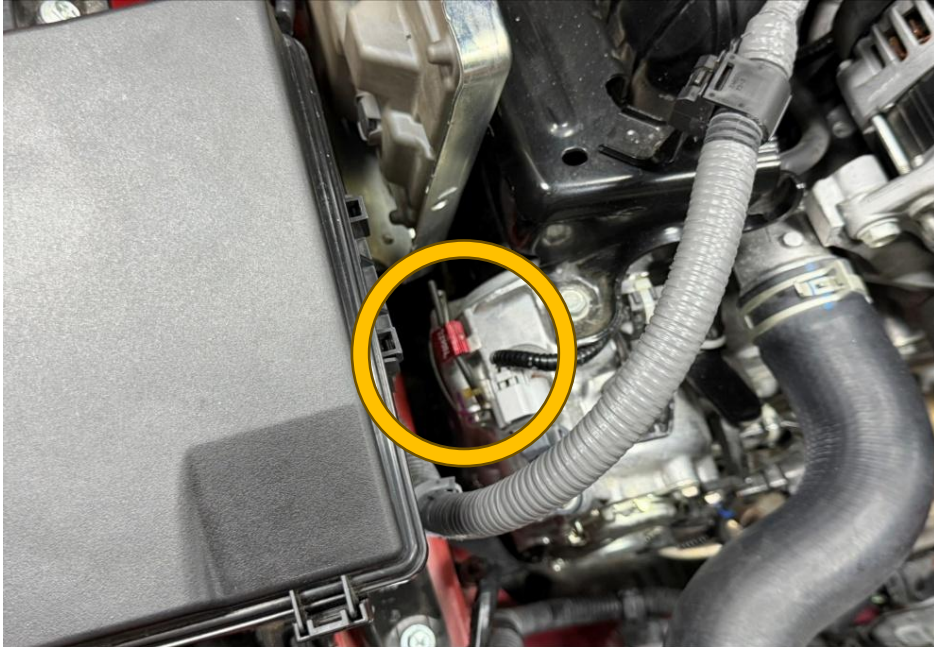
Wheel Bolts: Toms Racing Lug Nuts & Bolts

Exhaust: Toms Racing single barrel exhaust – Eight-Six Challenge Homologation: Part No: TM-17400-TZN8X-C01

Rain Light: Rain light will be the cars 3rd Brake light which has been re-wired to stay on when the headlights are switched on.

Attachment B - Seals

1. Engine Seal Position shown in Photo A:



2. Gearbox Seal Position shown in photo B

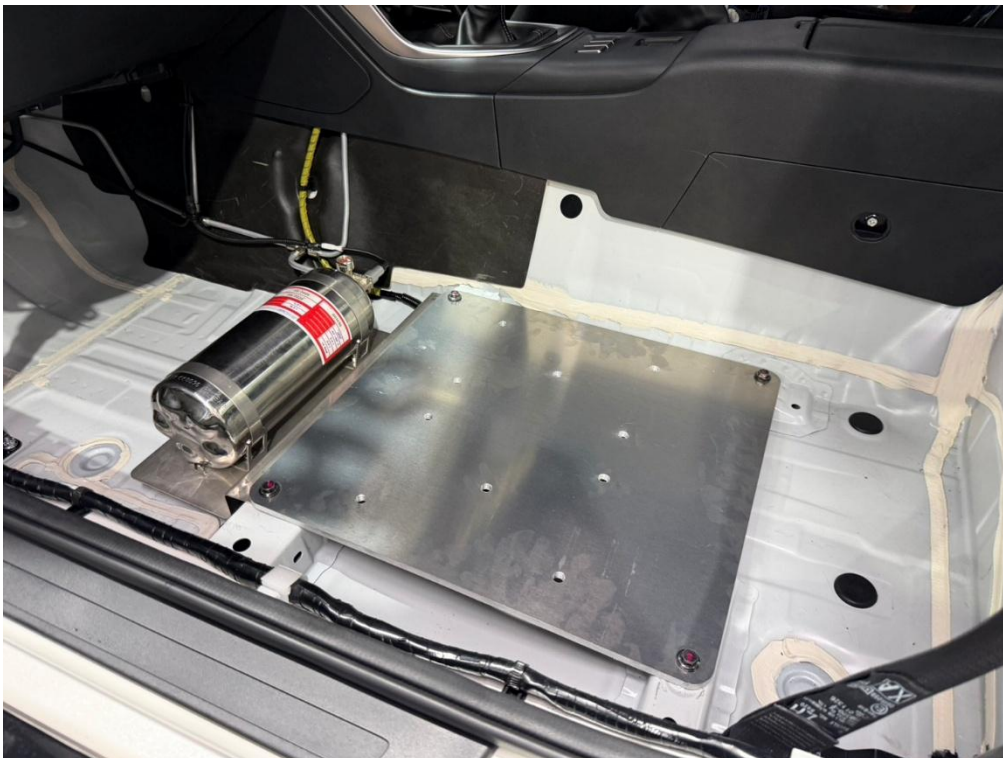


3. Diff Seal Position shown in Photo C



4. Weight Box / Base

Weight Box must be mounted in the position shown below. Any weight ballast must be mounted using 2 x M12 bolt size, any driver cooling system or radio system may be installed on this base.





Attachment C – Scrutineering Checks

1. Car Spec and Chassis Number, Engine Number
2. Check standard + upgrade parts
3. Data System and Video
4. Total Weight of car
5. Driver Weight
6. Fuel Drain and Sample
7. Tires marking & Min Tread - As per attachment D
8. Ride Height – As per attachment E
9. Max Camber
10. Min Tire Press
11. All Car Safety Equipment
12. All Drivers Safety Equipment

Attachment D – Tires Ver: 1/2026

- 1) Min tread of 1.6mm as per measurement points – reference picture below:
 - Inner Groove or Outer Groove
- 2) Min Tire Pressure: to be confirmed
- 3) Max Camber:
 - Front Camber Max: 4.0
 - Rear Camber Max: 2.5



Attachment E – Minimum Ride Height & Measurement Point

Ver: 2/2026

- Front Minimum Ride Height: 125mm
- Rear Minimum Ride Height: 270mm
- Ride height is measured without Driver Weight only

Ride Height Measurement Front – Front Lower control arm bolt - Photo A



1. Ride Height Measurement Rear – located at Rear Subframe Bolt – Photo B





Attachment E - Ride Height Position

Ver: 1/2026

2. Ride Height Tool Front & Rear No Go Tools – Photo C

(To be confirmed)

Additional notes:

3. The bolts that Ride Height is taken from must be original
4. They can ask to be checked and replaced at any time

EIGHTY-SIX CHALLENGE

Attachment F - Data System and Camera

Ver: 1/2026

1. Aim Solo 2 DL, which must remain in the position installed by Racewerks
2. Aim Sporty Cam 3, which must remain in the position installed by Racewerks.
3. The Camera should be mounted to give full view of Driver and mirrors of Car as per Photo A





Attachment G – Lubricants Appendix
Ver: 1/2026

List of recommended Lubricants:

1. Engine Oil: Motul 300V – 5W-40 **
2. Gearbox Oil: Motul 75W – 90
3. Diff Oil: Motul Gear 300 GL-5 75W-85
4. Brake Fluid: Motul 700 **
5. Engine Coolant: Motul MoCool **

**Items have been filled car on delivery day.

Attachment H – Antenna Position

Ver: 1/2026

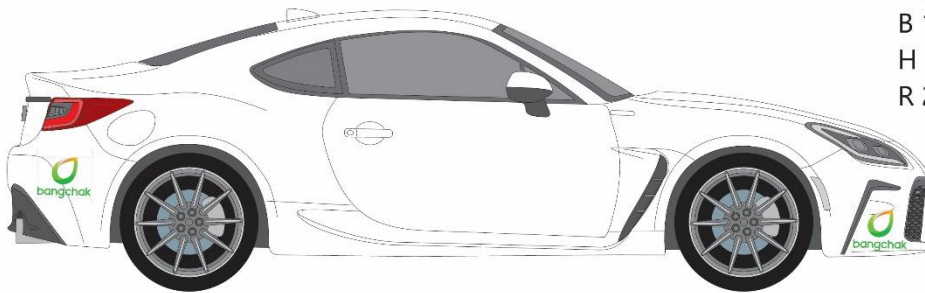
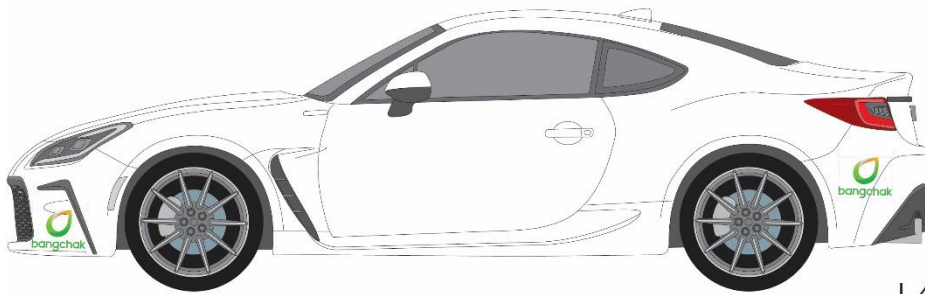
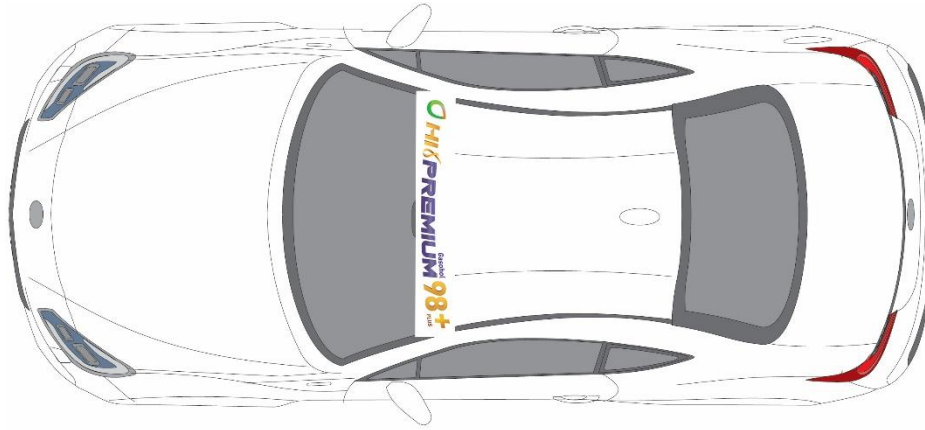
Radio Antenna position must be installed within this permitted area.



EIGHTY-SIX CHALLENGE

Attachment H – Compulsory Sponsor Stickers / Driver Suit Ver: 1/2026

- Stickers will be available at TSS Registration office
- Additional numbering stickers can be seen in TSS Supercar Technical Regulation Page 26



L 4265
B 1775
H 1310
R 2575



M 1:20

EIGHTY-SIX CHALLENGE

COMPULSARY LOGO ON DRIVERS SUIT



2026 SUPERCAR DRIVER'S LOGO ON SUIT