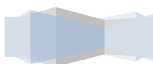




Technical Regulations 2018



TECHNICAL REGULATIONS

(The regulations are subject to change, which will be published via Additional Supplementary Regulations – ASR)

1. GENERAL

1.1. Eligible cars

Any 4-wheeled production based car, kit cars or limited production sports car.

2. VEHICLES

Cars for MSF FapMaster are classified into two major categories:

2.1. **Street-competition cars:** Minimum front half of the interior required (from the front seats to the dashboard);welded cages up to maximum of 6 welded mounting points only.

2.1.1.Fitted with OEM equipment as listed below:

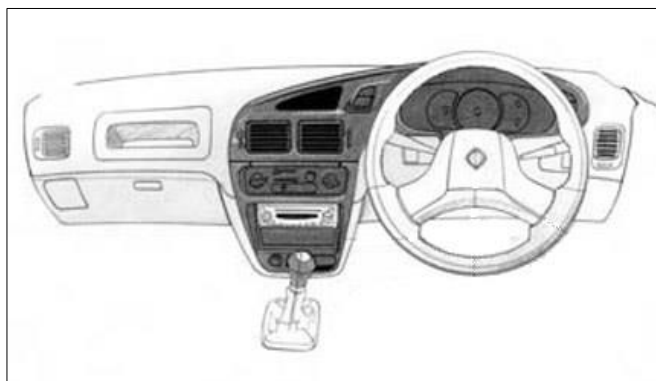
- Air-conditioning switches and blower. Compressor, condenser and evaporator may be removed.
- OEM dashboard required. To be presentable.
- OEM Front door trim panels on both driver's and passenger's side.
- OEM glass all around. Front windscreen is to be 2-layer glass.
- Passenger side front seat is required

2.1.2. Fitted with OEM full length dashboard with all listed panels. Refer to diagram 2016a:

- Instrument Panel and cowling
- Steering Column cover and indicator stalks
- Centre console and switches
- Gear console and gear shift cover.

2.1.3. The following items may be removed and/or replaced with non-OEM material/items for safety and/or to accommodate safety equipment:

- A, B, and C pillar trim may be replaced with non-OEM material
- interior trim from the rear of B-pillar and Front seats may be replaced with non-OEM items and/or material
- headlining
- carpet



2016a

2.1.4. Carbon fibre and other lightweight materials for bodyparts are allowed, all parts must still retain the OEM factory body look and style.

2.1.5. OEM passenger cell from firewall, front screen till rear screen, floorboard and doors must be retained.

- 2.1.6. OEM Glass windscreen, side windows and rear windscreen must be retained.
- 2.1.7. OEM strut towers must be retained and used.
- 2.1.8. OEM floor and firewall must be retained.
- 2.1.9. *Recommended* to have a minimum a 4-point roll cage, a 4-point harness, an internal and external electrical cut-off switch, and a fire extinguisher.
- 2.2. **Competition-Prepared cars:**
 - 2.2.1. Any vehicle with a welded-in rollcage with more than 6 welded mounting points.
 - 2.2.2. May be stripped of any interior equipment such as carpets, door trims, centre consoles, etc. Dashboard/instrument panel is not required. Replacement door panels permitted.
 - 2.2.3. OEM Glass front screen must be retained. All other windows may be replaced with lexan etc.

3. CATEGORIES

3.1. Super 1500

Front/Mid/Rear Engine, FWD/RWD /4WD cars with naturally aspirated engines below 1500cc or forced induction engines up to 1000cc, high volume unibody monocoque chassis only. (Lotus Elise/Exige/ Ariel Atom/KTM X-Bow/Radical etc do not qualify). No Rotary Engined cars.

3.2. Street Tuned Limited

Front/Mid/Rear Engine, FWD/RWD /4WD cars, high volume unibody monocoque chassis only (Lotus Elise/Exige/ Ariel Atom/KTM X-Bow/Radical etc do not qualify). Specific capacities and engines permitted are:

- Forced Induction.
 - Petrol Engine with no variable-valve timing up to 1600cc; with variable-valve timing up to 1500cc.
 - Diesel up to 2000cc.
 - Turbocharger must meet either of the below specifications:
 - o Original OEM Turbocharger that is specific to the engine used in the car;
 - o TD04 Turbocharger with original TD04 housing;
 - o T25 Turbocharger with original T25 housing, GT turbochargers not permitted;
 - o Any other Turbo with similar dimensions to the TD04 / T25 is permitted; to be declared to and certified by the Organisers prior to the race meeting.
- Normally Aspirated
 - 4-valve and 5-valve per cylinder engines up to 1900cc.
 - 2-valve and 3-valve per cylinder engines up to 2500cc.
 - Mazda rotary-engine up to 1308cc (maximum 2 rotors only) peripheral port not permitted.
 - Honda B-series engines up to 1700cc.
 - Other Variable Valve Timing ie MIVEC, VVTI, VANOS, engines up to 1900cc.
- Hybrid powertrains
 - Maximum engine capacity of up to 1900cc.

3.3. Street 1600 Limited

Street specification vehicles complying to Street Tuned Limited. Naturally-aspirated maximum 1600cc, VTEC and other forms of variable lift and timing are permitted. No rotary engines.

3.4. SuperStreet Limited

Front Engine, FWD/RWD cars, high volume unibody saloon cars. Specific capacities and engines permitted are:

- Forced Induction.
 - 4-cylinder engines 1750cc to 2000cc non-VTEC; 6-cylinder engines up to 2500cc; rotary 1308cc (maximum 2 rotors only) with peripheral port modifications not permitted



- Honda VTEC systems with forced induction limited up to 1800cc only: applicable to B-series and D-series engines. Honda B-series engines with non-VTEC limited up to 1800cc only.
- Turbocharger must meet either of the below specifications:
 - o Original OEM Turbocharger that are specific to the engine used in the car;
 - o TD05 Turbocharger with original TD05 housing;
 - o T28 Turbocharger with original T28 housing, GT turbochargers not permitted;
 - o Any other Turbo with similar dimensions to the TD05 / T28 is permitted; to be declared to and certified by the Organisers prior to the race meeting.
- Naturally Aspirated
- Honda VTEC engines limited to 2200cc maximum engine capacities: this includes ALL Honda VTEC engines such as B-series, K-series, H-series, and F-series.
- Naturally-aspirated non-VTEC up to 4500cc; other forms of variable valve timing permitted.

3.5. Street 2000 Limited

Street specification vehicles complying to SuperStreet Limited. Naturally-aspirated minimum 1900cc and maximum 2000cc; 3-box saloon car body only, 2-door and 4-door permitted (includes Coupes and Fastbacks); 2-box hatchbacks not permitted.

- VTEC not permitted
- other forms of variable lift and timing are permitted
- No rotary engines
- forced induction not permitted.

3.6. SuperStreet 4WD

Street specification vehicles complying to SuperStreet Limited. For 4WD vehicles only.

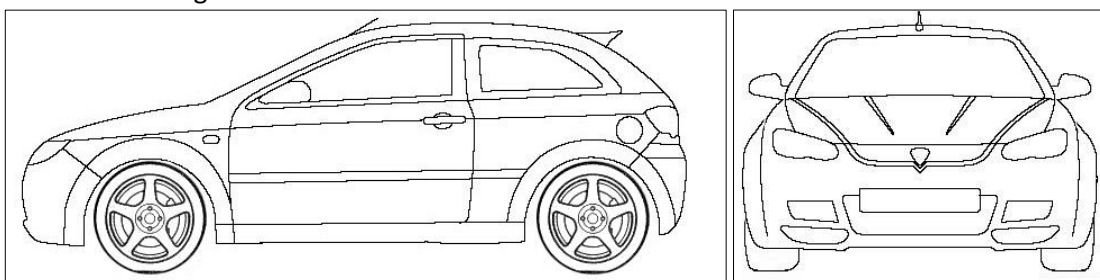
3.7. Rocco

Open category including racing / competition-prepared cars, defined by

- a welded-in safety cage that is welded at more than 6 locating points
- Organiser's rights to move a participant's car into a different category as deemed necessary is final.**

4. MODIFICATIONS / BODYWORK

- 4.1. Modifications made to the vehicle cannot compromise the safety or structural integrity of the vehicle.
- 4.2. Wheel/Tires must not protrude beyond OE bodywork. However if wheel/tires protrude beyond bodywork additional wheel arches **MUST** be installed. Wheel arches must cover from top of wheel & tire and reach to the bottom of vehicle floorpan level. **Refer to diagram 2016b and 2016c.**
- 4.3. Any soft-top / cabriolet cars must have the Hard-Top installed; alternatively, at minimum a bolted-in roll hoop must be installed.
- 4.4. Headlights and tail lights are recommended to be taped up.
- 4.5. All exterior lights must be functional.



2016b

2016c

5. SAFETY EQUIPMENT/ INTERIOR

- 5.1. Safety equipment including cut off switches for electrical & fuel systems, Fire Extinguisher is recommended.
- 5.2. Competition safety harness & Competition bucket seat is recommended.
- 5.3. Any battery placed within the passenger compartment must be of sealed Dry cell type. It must be installed securely within a secure box with lid cover.
- 5.4. For Street categories:
A bolt-in or welded-in Roll cage may be installed. It must be secured at minimum four points with secure bolts. Mounting points are the base of the B Pillar and the rear wheel arch or rear suspension turret.
 - Welded-in safety cages are permitted however they must be basic in configuration and may NOT be welded to strengthen the shell.
 - Only the main 6 cage location points to the floor of the shell may be welded.
 - No welding to front suspension turrets.
 - No welding to pillars. However bolting to existing locations on the pillars or bodyshell is acceptable.
- 5.5. The interior can be stripped of certain trim to facilitate installation of Roll Cage.
Items that may be removed are:
 - Rear Seat Back,
 - Rear Seat Cushion,
 - Rear parcel shelf or speaker shelf board.
- 5.6. No fluid leaks of any kind.
- 5.7. No loose items within engine bay or interior.

6. DRIVER ATTIRE

- 6.1. Drivers are required to wear proper auto/motor Helmets. Minimum requirement is SIRIM Approved. No Bicycle Helmets allowed.
- 6.2. Drivers are recommended to wear proper racing attire: Flame Retardant club-level Racing suit complying to minimum SFI 3.A/1 and/or EN533; **shoes and gloves required.**
- 6.3. Prohibited wear are **slippers, sandals, or open-toe shoes.**

7. TIRES

- 7.1. All categories, with the exceptions stated below, must run on street tyres with a UTQG (treadwear) rating higher than 180.
- 7.2. If the tyres fitted to your vehicle have a UTQG rating under or equal to 180 you may be refused entry entirely. These are street tyres that are not in the semi-slicks list below. Tyres with the markings “NOT FOR HIGHWAY USE” or “FOR COMPETITION USE ONLY” or similar, are not street tyres.

7.3. Rocco

- Semi Slicks of any brand and sizes are permitted.
- No full slicks

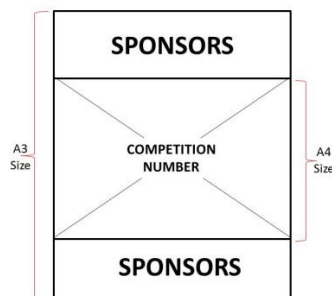
7.4. Below is the list of tyres defined as semi-slick tyres in SNF

Manufacturer	Tyre
Yokohama/Advan	A048R, AO50R
Bridgestone	RE540S, RE55, RE-11S, RE71R
Dunlop	Formula R (D83J, D93J, D01J, DZ02G, DZ03G)
Federal	FZ201

Kumho	Ecsta V700, V70A
Michelin	Pilot Sport Cup, TB15
Pirelli	P Zero C, P Zero Corsa
Silverstone	FTZ Sport Tyre RR, S575, S585
Toyo	Proxes RA-1, Proxes R888, Trampio R881
Hankook	Ventus TD Z221
Nitto	NT01

8. COMPETITION NUMBER & VEHICLE PRESENTATION.

8.1. Competitors are obliged to display the series competition number on the RIGHT & LEFT Front Door as supplied by the organiser. Refer to diagram 2016d.



8.2. Competition number design may be of competitors own, subject to organisers approval.

8.3. Competitors are encouraged to use reflective or fluorescent stickers on their vehicle to maximise visibility.

