



**MOTORSPORT AUSTRALIA HILLCLIMB  
CHAMPIONSHIP  
20-23 October 2022  
SUPPLEMENTARY REGULATIONS**



**AUTHORITY:**

The event will be a National Championship Hill Climb (herein after referred to as 'The Event') and will be conducted under the FIA International Sporting Code including Appendices, the National Competition Rules (NCR) and the Speed Event Standing Regulations of Motorsport Australia, the Australian Hill Climb Championship Sporting Regulations, these Supplementary Regulations and any Further Supplementary Regulations or Bulletins issued. Additional instructions may be issued subject to the NCR of the Motorsport Australia Manual.

This Event will be conducted under and in accordance with Motorsport Australia OH&S, Safety 1<sup>st</sup>, Legal and Integrity and Risk Management Policies, which can be found on the Motorsport Australia website at [www.motorsport.org.au](http://www.motorsport.org.au)

The holder of a Motorsport Australia *Licence* (or a *Licence* issued by another ASN) may be tested for the presence of any drug or other banned substance and subject to a penalty for a breach of the Australian National Anti-Doping Policy and/or the Motorsport Australia Illicit Drugs in Sport (Safety Testing) Policy at [www.motorsport.org.au](http://www.motorsport.org.au).

Consumption of alcohol in the paddock, pits or any other *Reserved Area* is prohibited until all *Competition* is concluded each day. The holder of a Motorsport Australia *Licence* (or a *Licence* issued by another ASN) may be tested for the presence of alcohol by a Motorsport Australia Accredited Testing Official (CATO) in accordance with the Motorsport Australia Alcohol Policy at [www.motorsport.org.au](http://www.motorsport.org.au).

*Motorsport Australia Organising Permit is: 822/2310/02*

**PROMOTERS:** The Event will be promoted by the MG Car Club of Qld Inc. ABN 17 363 608 667  
GPO Box 1847, Brisbane, Qld. 4001.

**ORGANISING COMMITTEE:** Annette Truscott (0407494 867), Richard Mattea (0488 224 105),  
Gary Goulding (0438 104 231)

**THE VENUE:** Will be Mt Cotton Hillclimb Course 946 metres in length situated off Gramzow Road at UBD Reference Map 244 R10. The course is 41 Kilometres from Brisbane CBD by road – approximately 35 minutes travelling.

DATE:	20-23 October 2022
STEWARD CHAIR	Peter Marcovich
STEWARD	Gregory Wright
STEWARD	Matthew Sosimenko
CLERK OF THE COURSE	Mary Caplet
DEPUTY CLERK OF THE COURSE	Judy Evans
ASSISTANT CLERK OF THE COURSE	Richard Mattea
SECRETARY OF THE EVENT	Annette Truscott
DEPUTY SECRETARY	David Robinson
SCRUTINEERS	Carmel Wilcox and crew
TRACK MARSHALLS	Just Flags - Dave Evans and crew & other interested parties.
STARTER	Leigh Evans
SOUND MONITOR	Tony Jay
TIMEKEEPERS	Andrew Lake and Malcolm Spiden
JUDGES OF FACT	Timekeepers - Start and Finish Flag Points - Corner Cutting
COMPETITOR RELATIONS OFFICER	David Robinson
COMPLIANCE OFFICER	Malcolm Spiden

**1. ENTRIES:**

- (b) Entries are Limited to 110. In circumstances where entries are greater than 110, entries will be accepted in order of receipt
- (c) Entry is via the Motorsport Australia website using the online system. Please see either the Motorsport Australia or MGCCQ websites for details
- (d) Entries will open on publication of these Supplementary Regulations and will close midnight Friday 7<sup>th</sup> October 2022
- (e) Drivers must have a minimum of a Motorsport Australia Speed Licence or a Junior Speed Licence (ages 14-17)
- (f) The entry fee will be \$310.00 or if a member of MGCCQ then \$290.00, Junior Entry Fee \$120.00 this includes three passes.
- (g) Personal Accident Insurance is included in the fee.
- (h) Competitor's attention is drawn to the NCR Regarding an entry containing a false statement.
- (i) Entries must be in the hands of the Secretary of Event by the specified time and date.
- (j) MULTIPLE ENTRIES of vehicles will be permitted with different drivers for each entry with a **maximum of**

**two (2) drivers per vehicle.** No vehicle shall be entered in more than one class

- (k) **CHANGE OF DRIVER:** A change of driver will be permitted subject to the NCR of the Motorsport Australia Manual. Such change must be notified to the Clerk of Course before 8:00 a.m. on Saturday 22<sup>nd</sup> October, 2022

**1. JUNIOR COMPETITION**

The event will include a 'regularity' style event for Junior competitors. To be eligible to compete in this event competitors must: -

(a) Be over 14 years old and be under 18 years old on the 22<sup>nd</sup> October, 2022

(b) Vehicles "must have a "J" sticker adjacent to the competition number to clearly identify the Competitor as a Junior. Refer to Junior section of Supplementary Regulations for specific information on the Junior Competition.

**2. DOCUMENT CHECK:**

**Competitors/Driver's licences will be checked prior to the event via the Motorsport Portal**

**Document check will be done prior to scrutiny at the secretary's office – you must present:**

- i. Current Motorsport Australia Affiliated Car Club Membership Card
- ii. Motorsport Australia Vehicle Logbook - must be presented for ALL vehicles other than Road Registered vehicles – Refer technical Appendix Schedule L in the Motorsport Australia Manual
- iii. Motorsport Australia Certificate of Description (5th Category only) - other than Group N & S
- iv. CTP Extension for all Qld Road Registered Cars- see note below
- v. Completed Self Scrutiny check list and Self Scrutiny statement of Compliance forms

**NOTE: All Queensland Road registered cars (Trade Plates are not acceptable) must have an original 3<sup>rd</sup> Party extension certificate on their current Queensland Transport Registration provided by the 3<sup>rd</sup> Party insurer, specifically covering the days of each competition. Failure to provide this Queensland Government requirement will result in your entry being refused at administration check.**

**3. STARTING TIMES:**

Official timed runs will commence at 8.30 a.m. on Saturday 22<sup>nd</sup> and 8.30 am Sunday 23<sup>rd</sup> October 2022

**4. NUMBER OF RUNS:**

There will be a total of 8 official runs (4 runs each day)

- 6. DRIVERS BRIEFING:** A compulsory drivers' meeting will be held 8.00am Saturday 22<sup>nd</sup> October and 8.00am Sunday 23<sup>rd</sup> October at the Scrutiny Shed. Drivers are to sign the Drivers sign on sheet prior to the briefing. Any driver failing to attend the briefing or sign the sheet will be directed to the Stewards of the Event and maybe subject to a fine. Social Distancing to be maintained at all times

**7. SCRUTINY TIME AND PLACE:**

(a) Scrutiny for all vehicles will take place at the course in the scrutiny shed from on Friday 21<sup>st</sup> October between 7.00am and approximately 2pm, Saturday 22<sup>nd</sup> October from 7am till approximately 12:00 pm. First time scrutiny on Sunday 23<sup>rd</sup> October will only be available with the approval of the Clerk of Course between 7.00am 8.00am. Other vehicles will be scrutineered on Sunday if they have been involved in an incident the previous day. All competition vehicles taken from the hillclimb venue at the end of the day will need to go through scrutiny when returning to the hillclimb venue.

(b) Extension of scrutiny times is at the sole discretion of the Clerk of Course & Chief Scrutineer. The Chief Scrutineer or nominee shall be the Judge of Fact in all matters pertaining to the safety of a vehicle, equipment, or clothing.

(c) No Car will be permitted to practice on Friday or compete unless it has been inspected and approved by the Scrutineers.

(d) Competition numbers allocated in the Entry List must also be in the appropriate places on the vehicle as per the Motorsport Australia Manual.

(e) All vehicles must comply to Schedules as per Schedules A&B except for Superkarts

(f) Crash Helmets, goggles or fire extinguishers and seat belts must be Motorsport Australia approved types.

(g) Parc Ferme is the area covered by the scrutiny shed roofed area and adjacent area marked off if required.

- 8. ABANDONMENT OR POSTPONEMENT:** The Organisers reserves the right at their sole discretion to abandon, postpone or cancel the event subject to the NCR.

- 9. PROTESTS:** Will only be accepted if lodged in accordance with the NCR

- 10. PRACTICE:** Official Practice will be held from approximately 9.00am on Friday 21<sup>st</sup> October 2022. Practice is not compulsory. Practice will cease at the discretion of the Clerk of Course but will go no longer than 4.00pm. Private practice will be available on Thursday 20<sup>th</sup> October from 11.00.to approx. 3.00pm (Note-Private Practice is included in entry fee) Thursday runs may not be timed.

**11. COMPETITION:**

This is a four-day event with one day private practice, one day official practice and two days competition

(a) A competitor need not take more than one (1) official run. Where a multiple entry has been accepted, it is the responsibility of the competitor to advise the timekeeper who is driving in any one run so that times may be credited to the correct driver. If this is not done, runs may be forfeited.

(b) Should it be necessary to terminate the event before the completion of the final run, then only those times recorded at the termination of a complete run shall be scored in the competition for AHC, FTD awards and other special awards regardless of how many runs a driver has completed. However, should the Clerk of Course at their discretion, decide that certain classes have completed an additional run or runs then the times

recorded for said run or runs shall be scored for the purpose of making class awards. The completion of each run shall be announced over the Public Address System. A driver who has not competed in the current run shall be deemed to have missed that run at the time when that run has been announced as being completed.

- (c) At the end of each run all cars must be returned immediately to the pits via the return road.
- (d) All runs shall be made from a standing start. Drivers shall position their cars as directed by the starter and assistants. The signal to start shall be given by the Starter. Cars may not cross the start line before the commencement of their run or they may forfeit that run.
- (e) A timed run shall be deemed to have started as soon as the car causes the timing mechanism at the starting point to start. It will be deemed to have finished as soon as the car causes the timing mechanism at the finishing point to record the time taken.
- (f) A re-run will be permitted as per Australian Hill Climb Championship Sporting Regulations
  - (i). Failure of timing equipment
  - (ii). The signal to start having been given when the course was not clear.
  - (iii). If for any reason the rear of the vehicle fails to reach the start line or
  - (iv). The Clerk of Course declares that the track has become unsafe during a run
- (g) If a car due to mechanical failure or for other reasons fails to reach the finish line, it shall be removed immediately from the course and will be deemed to have made an official run. Outside assistance received shall deem that competitor's run to have been a DNF.

## 12. COMPETITION PROCEDURE:

- (a) Cars will be marshalled in the PIT area to proceed to the start. IT IS THE SOLE RESPONSIBILITY OF COMPETITORS TO BE PRESENT AND READY TO RUN WHEN REQUIRED. Any Competitor who does not comply with the foregoing may lose that run.
- (b) Subject to alteration at the discretion of the Clerk of Course, cars will compete in Programme order.
- (c) Only one burnout sequence (before the start line) will be permitted before starting as per Australian HillClimb Championship Sporting Regulation.
- (d) Competitors must have seat belts and helmets on by the time the vehicle reaches the Zebra Pedestrian crossing before entering the Start Line Pit Area.

## 13. SAFETY EQUIPMENT:

Whilst it is preferred that Motorsport Australia approved fire-resistant clothing be worn, this is not mandatory. The minimum standard of dress required for practice and competitive runs is as per Technical Appendix Schedule D of the Motorsport Australia Manual

- (a) Tyres are subject to the approval of the scrutineers as per 2022 Speed Event Regulations
- (b) Laminated windscreens are not compulsory, but all headlights must be adequately masked.
- (c) All cars must comply with Schedules (where applicable), as defined in the "General Requirements for Cars and Drivers" in the Motorsport Australia Manual.
- (d) All cars which are required to have an operable starter fitted must start the engine by the use of the starter and by no other means.
- (e) All vehicles must be fitted with a fire extinguisher or fire extinguishing system in working order and of a type and capacity (at least 900g) as specified in Technical Appendix Schedule I of the Motorsport Australia Manual and be securely mounted in a metal bracket – with the exception of Formula Libre (Open).
- (f) Fifth Category cars do not require oil catch tanks, tail shaft straps, wired drain plugs, scatter shields or battery markers.
- (g) All vehicles fitted with an opening front panel (e.g., Bonnet) must utilise two separate fastening systems, in accordance with Technical Appendix Schedule B of the current Motorsport Australia Manual.
- (h) Fuel for Formula Libre is free, save for that which is specifically prohibited in Technical Appendix Schedule G. All other vehicles refer to the Technical Appendix Schedule G of the Motorsport Australia Manual. Fuel testing may be carried out. It is mandatory that vehicles using Alcohol fuels carry a symbol in the form of the letter "A" in white on a red circle of approximately 115mm diameter placed adjacent to the competition number on each side of the car and the filling cap of the fuel tank.
- (i) Vehicle permanent competition numbers will be used where possible. Competitors must use the competition number published on the official list of entries and be shown on both sides of the vehicle. The organisers reserve the right to reject any vehicle which is not presented in a clean and tidy condition.
- (j) Advertisements may be displayed on cars subject to the NCR.
- (k) It is compulsory for all competitors (excluding 5<sup>th</sup> category cars) to prominently display the Motorsport Australia logo and event sponsor's logo on each side of the vehicle adjacent to or above the competition number (if possible) All Decals will be available at scrutiny and handed out once the vehicle has been processed.
- (l) Safety cage structures: Refer to the Technical Appendix Schedule J in the Motorsport Australia Manual

### **ALL AUTOMOBILES MUST BE FITTED WITH AN EFFICIENT MUFFLER TO LIMIT NOISE BELOW 95 db(A).**

**Noise Monitoring.** In accordance with Motorsport Australia regulations, all vehicles are required to limit their total vehicle *noise emissions to 95 db(A) at the event with the device used. Sound levels will be remotely monitored using a NATA certified sound meter while vehicles pass the monitoring point, 30metres on axis with the vehicle under load.* Judges of Fact for noise measurement will be the MGCCQ appointed Sound Monitor and Clerk of the Course. Competitors/drivers need to be aware that atmospheric conditions can cause small variations in sound pressure and should ensure that their vehicle meets the stated limit under adverse conditions. Vehicles will be

notified if they exceed 95 db(A) so that they may take future measures to lower their readings and avoid further problems.

**1st Infringement.** Should any vehicle exceed the 95db(A) limit, the competitor/driver will be advised. This will be the first and only warning for exceeding the Noise Limit. An opportunity will be given for modifications to be made to reduce the noise levels of the vehicle.

**2nd Infringement.** After modifications, should the vehicle again exceed the 95 db(A) limit, the recorded time may be disallowed and shown as NLE - Noise Limit Exceeded. The vehicle may be excluded from further competition on the day. Recommencement of competition can only be made on the day if the Clerk of the Course and other necessary officials are satisfied that substantial modification has been taken to bring the vehicle within the limit.

## 15.GENERAL

(a) The timing shed shall be out of bounds to all except those in an official capacity. Should it be necessary for drivers to speak to an official, he/she may come to the back door but must remain outside.

(b) Competitors/Pit Crew/Spectators/ Family are not permitted within the track safety fences or on the circuit where there is an accident on the track unless directed by an official.

(c) All non-competing cars must be removed from the pits. All tender vehicles and trailers may be requested to be removed from the pit area and official vehicle area as soon as they are unloaded. Unloading must take place immediately on arrival. Failure to act as directed by an MGCCQ official may result in denial of further participation in the event even if the said vehicle belongs to the competitor, crew or friends.

(d) All competitors will be allocated a pit bay, they will be advised in the Further Regulations. Passes will be available Thursday and Friday from the Secretary's office

(e) It is a condition of entry that competitors agree to pay all cost incurred by the MG Car Club of Queensland Inc. for the use of firefighting equipment or any damage done to timing equipment.

(f) Speed Limit around the pits is 10 km/hr, fines may be applied if direction by an official is not followed.

(g) All vehicles must stop at the stop sign near the bottom of the return road, check for approaching vehicles before moving forward.

(h) Results will be published on the Club website [www.mgccq.org.au](http://www.mgccq.org.au) within the required 72 hours. Those without internet access requiring mailed results should advise the Event Secretary accordingly.

(i) Track boundary marker cones incur 5 second penalty each if dislodged.

(j) All times, further regulations, bulletins will be displayed on the official notice board adjacent to the scrutiny shed

(k) Security will be on site from 6pm to 6am Thursday, Friday, and Saturday Nights

**16. CLASSES:** The Organizers reserve the right to combine and to expand the categories and classes at their discretion and re-classify vehicles if required. All class/capacity records recognised for historical purposes even when combined.

<b>Formula Ford</b>	All
<b>Formula Libre</b>	(a) up to 750cc (inc Superkarts)
	(b) 751-1300cc
	(c) 1301-2000cc
	(d) 2001 cc and over
<b>Formula Vee</b>	(a) 1200cc
	(b) 1600cc
<b>2A Sports Cars Open/Closed</b>	(a) up to 1600cc
	(b) 1601-2000cc
	(c) 2001-4000cc
	(d) 4001cc and over
	(e) 4WD All
<b>2C Supersports &amp; 6SR Sport Racers</b>	All
<b>2B/F Prod Sports</b>	(a) up to 1600cc
	(b) 1601-2000cc
	(c) 2001-3000cc
	(d) 3001cc and over
<b>3C Rally Cars</b>	(a) 2WD – up to 1600cc
	(b) 2WD – 2001cc and over
	(c) 4WD – All
<b>3D Sports Sedans</b>	(a) up to 1600cc
	(b) 1601-2000cc
	(c) 2001-3000cc
	(d) 3001-6000cc

<b>3J Improved Production</b>	(a) up to 1600cc
	(b) 1601-2000cc
	(c) 2001-3000cc
	(d) 3001-6000cc including Group 3K and 3H
	(e) 6001cc and over
<b>Circuit Excel</b>	One Class
<b>Time Attack</b>	(a) Club Sprint 2WD
	(b) Club Sprint 4WD
	(c) Open 2WD
	(d) Open 4WD
<b>Road Car Refer to Attachment A</b>	(a) up to 1600cc
	(b) 1601-2000cc
	(c) 2001-4000cc
	(d) 4001cc and over
<b>Limited Modified Road Car Refer to Attachment A</b>	(a) up to 1600cc
	(b) 1601-2000cc
	(c) 2001-4000cc
	(d) 4001cc and over
<b>All Wheel Drive Forced Induction</b>	One class
<b>Historic Group N</b>	(a) up to 2000cc
	(b) 2001cc and over
<b>Historic Groups S&amp;T</b>	(a) up to 2000cc
	(b) 2001cc and over
<b>Historic Other</b>	All

**17. THE AUSTRALIAN HILL CLIMB CHAMPION FOR 2022 will be the driver who records the shortest elapsed time during the course of official competition, inclusive of any penalties applicable. In the case of a tie in such shortest elapsed time, the next fastest official run shall be taken into account and so on until the individual places are determined. No account will be taken of practice runs. Class positions will be awarded on the same basis.**

**18. AWARDS:**

The Organisers reserve the right to make additional awards and allot trophies.

1) The awards will be as follows: Outright Trophies - **1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup>**

Prize money to be allocated as follows:

Outright - 1 <sup>st</sup>	\$1000
2 <sup>nd</sup>	\$750
3 <sup>rd</sup>	\$500
4 <sup>th</sup>	\$250

Trophies will be awarded to the winner of each class (a minimum of three entries to constitute a class) and if four or five entries, trophies for 1<sup>st</sup> and 2<sup>nd</sup>, if six or more entries trophies for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>.

\$500 to be paid to the winner of each of the following:

- Fastest Racing Car
- Fastest Sports Car
- Fastest Sedan
- Fastest Queenslander
- Winner of Classes: 1<sup>st</sup> \$100

A trophy will be awarded to the MG recording the fastest time in the class in which it competes

A bottle of champagne will be presented to the winner of any class who breaks an existing Record.

2) **SPECIAL AWARDS:**

- Perpetual Trophy for FTD.
- Glyn Scott Perpetual Trophy for the Fastest Time by a Sports Car.
- Martin Tighe Trophy for the Fastest Time by a Formula Ford.
- Vince Appleby Trophy for the Fastest Time by a Sedan.
- Paul Aitken Trophy for the Best Average Time by a Motorcycle powered car.
- Hamilton Perpetual Trophy for the Best Performance by a Historic car. The trophy will be awarded to the 5<sup>th</sup> Category vehicle that breaks its class record by the greatest margin. If no 5<sup>th</sup> Category car breaks a record the trophy will be awarded to the driver who is closest to the existing record for their class.
- John English Trophy for Fastest time by a Queenslander
- Dennis Cotton The Fast Lady Award  
Winner will be the lady competitor that comes closest to breaking their own open class record by the greatest amount. The class record will be taken as it stands before the day's competition
- Accurate Suspension Hot Hatch Battle Trophy - for the Fastest Time by a Hot Hatch and Trophy for the Runner-up

**19. REFUND OF MONIES shall be conditional upon the following: -**

Notification before close of entries 7<sup>th</sup> October 2022 by phone and then in writing – 100% Refund.

Notification before 17<sup>th</sup> October 2022 by phone then in writing, full refund less \$40.00.

**NO REFUND WILL BE CONSIDERED AFTER 17<sup>th</sup> October,2022**

**Refunds are at the discretion of the organising committee after the event.**

**Junior Competition Instructions and Information for the Australian Hillclimb Championship 20-23 October, 2022. The event will run for juniors 14-17 (under the age of 18 at time of the competition)**

**Drivers will be also eligible for awards (class and outright)**

This event will run in compliance with the Speed Event Standing Regulations and Regularity Trial Standing Regulations. Apparel requirements are as per Technical Appendix Schedule D for Speed Events. The award is to encourage participation of junior drivers to adopt a smooth and consistent approach to develop driving skills in this form of motorsport to rather than the fastest car.

Important instructions and information for the weekend:

1. The Clerk of the Course will hold a special drivers briefing for the junior drivers immediately following the normal drivers briefing (the juniors and their parents will need to attend both drivers briefings).
2. Juniors drivers will run in a group for their first run on Saturday morning. This will be a sighting run or practice run which will be timed to enable all to establish an initial time. This first run will not count towards any results for the junior competition. For subsequent runs they will run in their respective classes in their order as advertised in the official programme.
3. Junior drivers will have time to talk to parents/friends about a time they wish to nominate. Prior to their first point scoring run, each driver will need to visit the timing shed and submit their nominated time to the nominated official who will manage the point score over the weekend. After each run you can change or modify your nominated time which must be given to the official and must be prior to the start of the run. The points from the runs that have already been completed cannot be changed. It is recommended that you set a time that is slightly faster, as more often than not your times will get faster over the weekend
4. Junior competitors will have a 'J' sticker on their car, so that the spectators know when a junior is out on track – everyone is extremely interested in the juniors and want to see them go well!
5. After the last competitor of the Junior Groups completes each run, points will be updated and displayed on the notice board next to the scrutiny shed.
6. The points system is as follows:
  - a. All competitors will start with zero points.
  - b. For each FULL 1/10th of a second quicker than the nominated time, 2 points will be deducted.
  - c. For each FULL 1/10th of a second slower than the nominated time, 1 point will be deducted.
  - d. For part 10th of a second no points will be deducted e.g., if you nominate a time of 57.00 seconds and you run a 56.92 seconds time, you do not lose any points, as the difference it is not a full 10<sup>th</sup> of a second.
  - e. The junior with the least amount of points deducted at the end of the weekend is the winner
  - f. Juniors must participate in at least five runs. If more than five timed runs are contested, only the best five runs will count towards point scoring (that is, with the least points lost) will be combined to declare the winner. Trophies will be awarded for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> placegetters

# MG CAR CLUB OF QUEENSLAND INC.

ABN 17 363 608 667

## AUSTRALIAN HILLCLIMB CHAMPIONSHIP

20-23<sup>rd</sup> October, 2022

### Publicity Sheet

Competitor: \_\_\_\_\_

Sponsor: \_\_\_\_\_

Driver Name: \_\_\_\_\_

2<sup>nd</sup> Driver (if any): \_\_\_\_\_

#### Driver Information

State: \_\_\_\_\_

City or Suburb of residence: \_\_\_\_\_

Occupation: \_\_\_\_\_

Nickname: \_\_\_\_\_

Age: \_\_\_\_\_

#### • Car Information

Make: \_\_\_\_\_

Model: \_\_\_\_\_ Year: \_\_\_\_\_

Engine: \_\_\_\_\_

Turbo/Supercharged?: \_\_\_\_\_

Information on Car: \_\_\_\_\_

---

---

---

---

---

---

---

---

Motor Sport History: \_\_\_\_\_

---

---

---

---

---

---

---

---