



Vehicle Technical & Safety Regulations for the 2008 Series

Vehicles entering into the 2008 Time Attack Club Challenge Series must adhere to the regulations of the Series as defined within this document, these regulations have been formulated to ensure that vehicles are prepared to a high standard and safety compliant with the Series requirements.

All points listed will be strictly policed and checked in scrutineering prior to the starting of each event and any vehicle failing to comply with these regulations will be excluded from the event. These regulations apply to all Time Attack Pro Series rounds and events.

Contents

- ❖ User Notes – Page 2
- ❖ Eligible Vehicles and Vehicle Body Type – Page 2
- ❖ Information Regarding Copyright – Page 2

- 1.** Engines – Page 3
- 2.** Fuel & Fuel System – Page 3
- 3.** Drivetrain & Suspension – Page 3
- 4.** Exhausts & Noise Testing – Page 4
- 5.** Tyres – Page 4
- 6.** Roll Cage – Page 4
- 7.** Windscreen & Windows – Page 4
- 8.** Electrical – Page 4
- 9.** Bodywork & Exterior – Pages 4 & 5
- 10.** Interior – Page 5
- 11.** Braking System – Page 5
- 12.** Wheels – Page 5
- 13.** Mandatory Vehicle Branding – Page 6
- 14.** Scrutineering, Technical & Safety Checks – Page 6
- 15.** Technical Inspections & Parc Ferme – Page 7
- 16.** Other Vehicle Safety & Missc, - Page 7
- 17.** Pit Lane, Paddock and Garage Safety Regulations – Pages 7 to 10

❖ **User Notes**

- These are the only vehicle technical and safety regulations for the Time Attack Club Challenge Series 2008 and those Time Attack regulations used for the 2006 & 2007 Series are not to be used.
- Any vehicles not conforming will be excluded from all/any Time Attack events.
- If appropriate any/all parts of the regulations may be changed or modified on the Time Attack website by the Time Attack scrutineer/technical officials. Any modifications to regulations made in this way will be clearly marked and reported in the news section.
- If these regulations refer to the passenger compartment or driver compartment, this refers to the whole of the front interior section of the vehicle – in a two seater (ie Lotus Exige) this applies to all interior space
- If you are unsure if your vehicle meets the regulation requirements then it is your responsibility to clarify any/all areas or points prior to an event. Please address technical questions through the Time Attack Series contact email: scrutineer@timeattack.co.uk

❖ **Eligible Vehicles and Vehicle Body Type**

1. Vehicles must be constructed by a recognised vehicle manufacturer and currently/previously available as a factory OEM vehicle, running in a road legal condition and capable of passing the general safety standards of an MOT test.
2. All drivelines are allowed, 4WD, FWD or RWD.
3. Vehicles must retain the original chassis/body and if the chassis/body is to be altered in any way the alterations must be submitted for pre-approval to the Time Attack technical.
4. No tube frame vehicles or tube frame chassis extensions are permissible unless part of the OEM structure as defined in points.
5. Space frame chassis of any description are not permitted, additional triangulation and bracing of suspension turret/mounting points is allowed.
6. Vehicles must retain their original VIN (chassis number) and original plate.
7. The VIN must valid for the chassis it is attached to.
8. The VIN plate must be clearly visible and readable.
9. Vehicles which have soft roofs, i.e. convertible, must have a hard top installed and a roll cage which will be effective in the event of a vehicle rolling onto its roof. The hard top must be securely fastened to the body.
10. Vehicles appearance must be similar to that of the original vehicle.

❖ **Information Regarding Copyright**

All written areas, content and diagrams within this document are copyright ownership of Santreo Promotions Ltd (Time Attack Club Challenge Series) and any copying and/or reproduction or part copying and/or part reproduction of this document unless otherwise approved will not be tolerated and will lead to prosecution to the extent of the law.

1. Engines

- 1.1 There are no maximum power/engine outputs – engines and transmissions are free.
- 1.2 Dry sump tanks and pipes containing hot oil or hot water should not be fitted in the driver's or passenger's compartment. All tanks and pipe work must be shielded to prevent the occupants from the oil if the tank or pipe work fails. All pipes containing hot oil in the passenger compartment must be braided or covered by a shield.
- 1.3 No fluid leaks of any kind from the vehicle are permitted, any such leaks will render the car void for the competition, catch tanks must be empty at the start of each run and contents easily viewable for inspection.
- 1.4 Use of power adders, such as Turbo/s, Superchargers, Nitrous Oxide or combinations thereof is free. Any Nitrous Oxide cylinders and associated piping, valves and equipment must remain outside the driver's compartment. Nitrous Oxide bottles must be positioned outside of the driver's compartment and preferably behind a firewall.

2. Fuel & Fuel System

- 2.1 Petrol, diesel and bioethanol are the only fuels allowed, no exotic fuels such as methanol etc., are permitted.
- 2.2 All fuel, nitrous or any other liquid or gas filled lines or pipes must be securely fastened every 200mm throughout its length.
- 2.3 If the boot contains any of the fuel system or nitrous tanks etc then the boot must be firewalled.
- 2.4 Fuel swirl pots, fuel systems, tanks and pumps must not be installed in the driver's compartment. Any such items must have a firewall or boxing/cover between the driver and equipment, no exceptions. The firewall or boxing/cover must be sealed to prevent passage of fluids and fire. A fuel-line may be ran through the interior of the car but it must be a continuous (unbroken) metal pipe or braided and must only run through the passenger side of the vehicle.
- 2.5 All fuel lines and filling devices must be clean and sealed after vehicles are fuelled to ensure no fuel can escape. Dry break fuel and bobble breathing systems are allowed from recognised manufacturers.
- 2.6 OEM fuel tanks are permitted as are racing fuel tanks and fuel cells.
- 2.7 If the tank filler is contained in the boot, the boot floor should have drainage holes or the filler neck should have a spillage collector that is draining to the outside of the boot.
- 2.8 All Vehicles must have at least a 1 litre hand-held serviceable fire extinguisher operational when the driver is strapped securely and safely within their vehicle, but are advised to have a plumbed in system of 2.25 litre minimum. Contents permissible: AFFF or Zero 2000 / Zero 360. A plumbed in system must be able to be activated from outside the vehicle and the activation button should be located on the front window splash panel and clearly marked with an official sticker. An activation button should also be mounted in the drivers compartment, accessible from the drivers position. **Dry powder is not acceptable.**
- 2.9 For specification and conformity of non recognised manufactured fuel cells, oil catch tanks, fire extinguisher systems, firewalls, boxings/covers etc., please ensure you contact the Time Attack scrutineer before attempting to produce or fit these items.

3. Drivetrain & Suspension

- 3.1 Ball joints, suspension bushes and wheel bearings must be in good condition.
- 3.2 All steering and drive train are free.
- 3.3 Power steering units may be disconnected and/or removed.
- 3.4 Throttle, brake and clutch systems must be in good serviceable condition.
- 3.5 Handbrake assemblies are free however a handbrake must be present and working.
- 3.6 Suspension modifications are permitted, subject to Eligible Vehicles and Vehicle Body Type – Section 5, but any changes that move the suspension mounting points or a major change of design must be submitted to the Time Attack organisers for approval before work is undertaken.

4. Exhausts & Noise Testing

4.1 Vehicles must retain an exhaust system complete with a silencer and they must be able to pass a static 105db at .5m noise test at 2/3 rd rpm or the noise level applicable for the track being used if this is lower.

4.2 Vehicles must have optional noise bungs which can be securely installed to comply with additional noise restrictions at each venue if required.

5. Tyres

5.1 TOYO tyres are the only manufactured tyre that is eligible for competitor use in the 2008 Series and all TOYO tyres used must be purchased through the appropriate TOYO appointed dealership.

5.2 Suspect tyres showing signs of removed sidewall markings may be assumed to be illegal.

6. Roll Cage

6.1 A roll cage is not mandatory but is highly recommended. Please contact Time Attack technical for cage clarification regarding material(s), dimensions and fitment if you are going to fit one to your vehicle. If you already have a roll cage then please contact technical.

7. Windscreens & Windows

7.1 Rear tinted windows - on a coupe this applies to the rear quarters and rear screen and on a 4 door this applies to the rear passenger windows and rear screen - are allowed. Clear security film may be applied to the front driver and passenger windows, but not the windscreen. Please ensure the film is fitted in a professional manner.

7.2 All windows can be exchanged for racing lexan materials where necessary except the front window screen which must remain laminated glass.

7.3 All lexan etc., windows must be screwed or bolted in place. The driver and passenger windows must be closed whilst on track.

8. Electrical

8.1 Vehicles are advised to have battery isolators installed, with activation buttons located in the drivers compartment which is accessible from the drivers position and an additional button located on the front window splash panel, nearside and clearly marked with an official sticker.

8.2 Batteries must be securely mounted and all connections in a serviceable and clean condition. Positive terminals must be insulated. Negative leads should be braided or have yellow identifying marking. Batteries housed in the driver compartment must be securely mounted in a sealed and insulated box.

8.3 A serviceable fire extinguisher or system must be installed, see requirements under Fuel & Fuel System 2.8

9. Bodywork & Exterior

9.1 All body panels may be replaced by carbon fibre or grp. If doors are to be replaced for lightweight items then this is acceptable ONLY if a rollcage and doorbars are fitted

9.2 A carbon, kevlar or composite bodysell is not permitted unless approved by the technical official.

9.3 All bodywork must not be hazardous to other competitors in design.

9.4 All vehicles must be equipped with towing eyes, one at the front and one at the rear and installed prior to any competition event. They must be clearly visible, or have an arrow or 'tow' painted on the car directing sight to the towing eye itself if located under the vehicle/out of clear sight. Both the word 'tow' and the actual eye itself must be painted in a contrasting colour and clearly visible. Remember that a towing eye must be durable enough should you find yourself buried deep within a gravel trap.

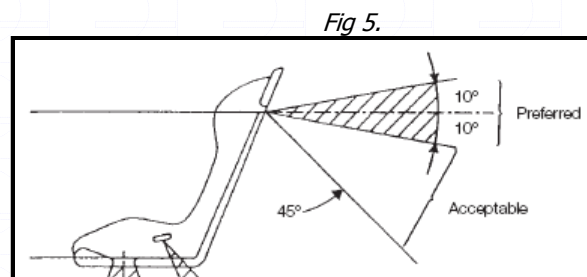
9.5 All bodywork must be secure and attached to the vehicle.

9.6 Bonnets and boot lids made of GRP or carbon must be held by bonnet pins in addition to any normal fixing points.

- 9.7 All exterior parts must not include any sharp or dangerous objects.
- 9.8 Headlights and indicators, brake and hazard lights, front wipers and horn must be in good working condition. Headlight glass must be protected against breakage by tape or security film.
- 9.9 If a headlight air scoop is to be fitted then the replacement item must include the facility for a headlight (full beam operation) and an indicator lens.
- 9.10 Rear view and side mirrors must remain but may be replaced.
- 9.11 All wings must have rounded corners.
- 9.12 Glass sunroofs should be replaced or covered with film or tape.

10. Interior

- 10.1 There must be a firewall between the engine bay and the passenger compartment capable of preventing the passage of fire or liquid. Larger holes must be covered by metal plates or fibreglass and smaller holes with bolts, rivets or fireproof mastic. If the standard bulkhead is retained, and has no unfilled holes in it, then it is deemed a satisfactory firewall.
- 10.2 The dashboard may be replaced but the replacement should be built to similar standards/appearance or better than the OEM unit.
- 10.3 Instruments are free to be changed and must be securely fixed.
- 10.4 Steering wheels are free to be changed.
- 10.5 Vehicles must have a seat that accommodates safely a minimum 4 point harness, this seat can be standard if compliant with harness regs. If a standard seat cannot accommodate a 4 point harness the you must use an FIA approved racing seat with the appropriate slide/mounting.
- 10.6 A standard passenger seat is a minimum and must be securely fitted unless: 1. Vehicles having only two front passenger seats (ie. Lotus Exige) are exempt from this ruling but must have an item installed in the passenger compartment that could not be installed elsewhere on the vehicle. 2. Vehicles with more than two seats that require an item to be installed within the front passenger compartment must contact Time Attack technical for installation clarification.
- 10.7 Harnesses's should not be bolted to seat mounts or use the same bolts and if you are in doubt about installation then please contact Time Attack technical.
- 10.8 An approved safety harness must be used for the driver, with a minimum of four fixing points, although five is recommended, and comply to SFI regulations or above and must be securely attached to vehicles body and or roll cage for the drivers seat. The straps from the shoulders should be mounted as near to horizontal as possible (see Fig 5. below) – not on the floor immediately behind the seat and fixed using a minimum of four 8mm bolts (ISO 8.8 or better) and 5 square inch spreader plates. These harness regulations apply to the passenger seat as well except in the case that only a four point harness is required, although a five point harness is recommended.



- 10.9 A serviceable fire extinguisher system must be installed, see requirements under Fuel & Fuel System 2.8

11. Braking System

- 11.1 Handbrake assemblies are free however a handbrake must be present and serviceable.
- 11.2 Calipers, discs, pads, reservoirs, brake lines etc., are free to be changed.

12. Wheels

- 12.1 Wheel dimensions are free.
- 12.2 Wheels and tyres must not protrude past the widest point of the wheel arch.
- 12.3 No aluminium wheel studs or nuts are allowed.
- 12.4 All wheels must have the correct number of wheel nuts fitted.
- 12.5 Stud number/pattern conversions, spacers and single nut conversions are allowed.

13. Mandatory Vehicle Branding

- 13.1 All vehicles entering into the Time Attack Club Challenge Series agree to accept the vehicle branding regulations as the branding regulations form part of your entry and acceptance into each event.
- 13.2 The Time Attack Series reserve the right to apply Series and official sponsorship branding on each vehicle in designated areas and will not discuss the moving of any of these logos.
- 13.3 Each competitor/team must consult the Time Attack Series for the official sticker pack valid for their vehicle prior to each event starting if they are not in possession of one.
- 13.4 All branding of any nature as supplied, approved by or in association with the, by the Time Attack Series will remain the property of the Time Attack Series organisers.
- 13.5 The Time Attack Series organisers reserve the right to remove branding from a vehicle as they see fit if they feel it is detrimental to the Series or it's associates in any way.
- 13.6 All logos, phrases, commercial materials and branding placed on competitors vehicles is done so under authorisation from the Time Attack Series where applicable. The use of any such branding is for the exclusive use of the Time Attack Series at their officially sanctioned and attended events.
- 13.7 Unless expressly agreed in writing and in advance, all vehicles displaying any such branding associated with the Series or its sponsors and associated companies will remain under control of the Time Attack Series outside of Time Attack events, All competitors, teams and entrants accept these conditions as part of their entry into the Series. If requested to do so any competitors, teams or entrants will without conflict remove all such branding immediately on request if the Time Attack Series requires such action. Any manufacturing costs relating to subsequent re-issue of branding will be met by the organisers.
- 13.8 The Time Attack Series and all other related official logos and phrases will remain the property of the organisers/respective owners unless agreed in writing, No competitor, team, entrant, car owner, media partner, sponsor or any other related/unrelated party shall not have the automatic right to use this branding regardless of the use and or their participation in any event.
- 13.9 Any vehicle which will take part in any other non Time Attack Series authorised event whether or not under competition, exhibition demonstration or otherwise, including any media of any kind shall agree that all official branding may be removed where necessary under prior consultation from the organisers.
- 13.10 Competitors will be allocated a number based on last years results or if not competing last year a number will be allocated to you and this number will remain constant for the Series.
- 13.11 Competitors may also choose a number not designated to another competitor. Any race numbers issued to a competitor relevant to their 2007 Series standing will only be made available to that competitor and if the competitor chooses to not enter the 2008 Series or chooses another number then their allocated number will not be issued to another competitor.
- 13.12 The Time Attack Series may at any time introduce new Series stickers to vehicles.
- 13.13 You will receive a Time Attack Series sticker pack prior to Round 1 and any replacements for one or more of these stickers will be chargeable.

14. Scrutineering, Technical & Safety Checks

- 14.1 Each vehicle will have to be scrutineered at each round of the Series.
- 14.2 The order of scrutineering will be based on the running schedule of each vehicle.
- 14.3 The vehicle must be fully available (unlocked) for inspection during the period specified in the event timetable, the scrutineers can inspect the car if unattended but the driver is responsible for ensuring bonnet pins etc., are replaced.
- 14.4 The driver is responsible for ensuring the car fully complies with the regulations – being passed by the scrutineer is not a guarantee that it is fault free – every detail cannot be checked every time.

14.5 On completion of the scrutineer's inspection an official card will be attached to the inside of the front windscreen. The vehicle must not be taken onto the track without a valid scrutineering card unless specifically authorised by a Time Attack official.

14.6 Scrutineering will be for the vehicle and clothing.

14.7 In the event of an accident/damage to the vehicle, the organisers reserve the right to re-inspect the vehicle before allowing it to return to the circuit.

15. Technical Inspection & Parc Ferme

15.1 After each session has finished, and the competing vehicles are returning to the pit lane, a TA technical official has the right to ask a vehicle, or vehicles, to proceed to a *parc ferme* area where the vehicle will be checked for technical and the driver for clothing.

15.2 Only one technical representative, plus the driver, will be allowed access to the *parc ferme* area and the representative must be available with 20 minutes of each session ending.

15.3 If a vehicle is taken into *parc ferme* and a technical representative is not present within the 20 minutes then the vehicle will be deemed illegal and omitted from the event results.

15.4 Only when the technical official and vehicle representative are present may the vehicle be inspected.

15.5 Any vehicle or driver failing to pass the legality check(s) will be omitted from the event results.

16. Other Vehicle Safety & Missc,

16.1 Any additional equipment inside or outside the vehicle including electrical or video equipment must be securely mounted in place, including pit-car radio systems, and this additional equipment must be fitted before scrutineering and passed as safe to use.

16.2 If at any time a Time Attack official feels a vehicle is unsafe then they have the right to stop the vehicle entering the race track.

16.3 Video, film and photographic (including performance related test equipment) is prohibited from all vehicles unless expressly authorised by the Time Attack Series officials in advance and installation approved by the scrutineer.

16.4 General vehicle appearance and roadworthiness must be in a good serviceable condition, Time Attack Series organisers reserve the right to refuse any vehicle competition entry if this is in question.

16.5 All competitors, teams and car owners agree that the decisions made by the Time Attack Series officials at each round will be final. It is also agreed that all Time Attack Series officials will have the final decision on any aspect of the competition, whether based on safety, timed schedules, behaviour or otherwise as required.

16.6 Vehicles do not have to be road registered.

16.7 Number plates do not have to be displayed.

17. Pit Lane, Paddock and Garage Safety Regulations

Usage and storage of Petrol

- All petroleum spirit must be stored in metal containers complying with the relevant British Standards and away from any source of ignition/flame.
- All containers must be marked as having petrol inside.
- All empty containers must be removed from the venue after the Event.
- Petrol is to be used as a fuel only, and not for any other purpose.
- All vehicle refuelling is to take place in the open air. The person in charge of the refuelling process must enforce a no smoking ban.
- Your attention is drawn to the Petroleum (Consolidation) Act 1928, and the Petroleum Spirit (Motor Vehicles) Regulations 1929.
- Competitors and entrants are reminded that fuel is available for sale at the Venue. As such it is unnecessary for competitors to carry large quantities of fuel inside vehicles.

Hazardous Substances

- Some vehicle parts, for example brake and clutch linings contain asbestos. Entrants are encouraged to use non-asbestos substitutes wherever possible. Where asbestos is used, every effort should be used to prevent asbestos dust getting into the air.
- Some mineral oils may cause skin cancer. Prolonged contact should therefore be avoided wherever possible. Where contact does occur any contamination should be washed off immediately. The wearing of contaminated clothing (including overalls) should also be avoided.
- Various other substances may cause disease or ill health even after very short exposures. Manufacturers and suppliers of such substances are obliged to provide customers with information about the possible harmful effects of their products upon request.
- Where any person is at work, the requirements of the Control of Substances Hazardous to Health (COSHH) Regulations 1988, must be complied with.

Electrical Safety

- All electrical equipment must be maintained in a safe condition.
- Extension leads cables should be flexible and not of semi rigid cable of the type used for household wiring and covered by matting. Neoprene covered cable will resist damage by oil.
- All electrical equipment to be used externally should be weatherproof.
- Hand tools should preferably be of the "double insulated" or "all insulated" type, as these provide valuable protection against electric shock.
- Electrical equipment and hand tools should not be used in areas where flammable vapours may be present, for example where fuel is being stored or refueling is taking place.
- Where any person is at work the requirements of the Electricity at Work Regulations 1989 must be complied with.

Fire Precautions

- Smoking is prohibited in all pit garages and in the pit lane.
- All potential sources of ignition should be kept away from petroleum spirit and vapours.
- The lighting of barbecues is prohibited in the paddock and pits area and cooking is not permitted in the pit garages.
- Fire extinguishers should not be removed from fire points unless they are to be used on a fire.
- All fires must be reported immediately to an official or member of the Venue management.
- Teams/drivers are encouraged to train their members in the correct use of fire extinguishers.
- All fire notices and orders to evacuate must be complied with.

Compressed Gas Equipment

- Air blasts from the over inflation of tyres can cause injury. Tyres should therefore not be inflated to pressures above the manufacturers' recommendations.
- All airlines should be in good condition and be inspected regularly.
- Always stand clear when inflating tyres.
- Any form of horseplay involving compressed air or gas is prohibited.
- Compressed gas cylinders should be stored in accordance with the relevant working practices.
- Where any person is at work the requirements of the Pressure Systems and Transportable Gas Containers Regulations 1989, must be complied with.

Jacks and Axle Stands

- Vehicles should only be raised on jacks which are in good condition, and rated to lift the vehicle weight safely.
- Jack vehicles only on level undamaged floors.
- Use the hand brake and /or chocks to stop the vehicle moving.

- Jacks, should only be used for lifting the vehicle. Axle stands should always be used to support the vehicle weight.
- Vehicle engines should not be run whilst the weight of the vehicle is supported by axle stands

General Working Practices

- All working areas should be kept clean and tidy, and any waste should be removed regularly and placed in the containers provided.
- All spillages should be cleaned up immediately.
- All trailing wires and hoses should not be allowed to create a trip hazard.
- Whenever vehicle engines are being run, adequate ventilation must be ensured.
- All safety notices must be complied with.
- Any person carrying out any work must ensure that they adopt safe working practices at all times, and comply with any relevant statutory provision and/or published guidance.
- Persons under the age of 16 are not allowed in the pits area or pit lane.

Noise

- Exposure to excessive noise may result in hearing loss or other complaints. These may be short term, or, after repeated exposure, permanent.
- All persons should avoid being exposed to excessive noise, and where this is unavoidable, they should wear earplugs or defenders to the appropriate British Standards.
- Where any person is at work the requirements of the Noise at Work Regulations 1989, must be complied with.

Manual Handling of Loads

- Lifting, carrying and propelling loads by bodily force is a major cause of injuries. All teams/drivers are encouraged to train their members in safe manual handling techniques.
- Where any person is at work the requirements of the Manual Handling of Loads Regulations 1992 must be complied with.

Waste

- All waste oil must be placed in the containers marked "waste oil."
- Waste tyres and empty petrol/oil containers should not be left at the Venue.
- Teams and competitors are urged to take any other form of waste with them when they leave the Venue, or to place it in the refuse containers provided.
- Your attention is drawn to the requirements of the Environmental Protection Act 1990,

Vehicle Safety

- A 10 mph speed limit is in force in all public areas, including paddocks and service roads at all of the venues. This applies to all vehicles with the exception of emergency vehicles attending an incident.
- No motorised forms of transport are allowed anywhere within the pit lane/paddock or garage areas with the exception of the transportation vehicles dropping off competing cars and parts/spares.
- All vehicles must at all times keep to the marked roads when moving around the Venue.

First Aid

- Any person sustaining an injury or feeling unwell should seek treatment from the on site emergency services.
- To call the first aid or emergency services contact any official or member of the venue management.

Public Safety

- Competitors and entrants should be aware that the Paddock may be open to the public and should act in a manner so as not to put either themselves or any other person at risk from injury
- Competitors and entrants should exercise particular caution when the paddock is busy, and during pits and track walkabouts.
- CHILDREN UNDER THE AGE OF 16 ARE NOT ALLOWED IN THE PIT LANE OR GARAGE AREAS

Incident Reporting

- All accidents where any person sustains injury, or where damage to property occurs must be reported immediately to a Time Attack official or a member of the circuit/venue.

Competitor and Team member property

- Santreo Promotions Ltd, the event organisers and/or promoters and the venue owners and/or operators will not be held responsible for any competitors or their team members property throughout the course of the event.
- It is your own responsibility to ensure you safeguard yourself against any loss and if you do incur such loss you will make a claim towards in respects of Santreo Promotions Ltd, the event organisers and/or promoters and the venue owners and/or operators for the loss or losses.

Mr. Glen Horncastle

Head of Events & Operations – Time Attack Series 2008