Standard Data Logging Practices Cheat Sheet

# Overview

The purpose of this document is to provide a “cheat sheet” for the full standard. The standard is still the definitive definition of the standard and supersedes all information here.

All ID Codes are shown: “**ID CODE**”. When filling in drop the quote and replace with the correct code

For Example: “**Event ID**” could be replaced with: Accel

For all fields (Excluding the Long Comment), not trailing or leading whitespace is allowed

All fields are case insensitive

## Event

Format: “**Event ID**”

Example: Accel

|  |  |
| --- | --- |
| EVENT ID | DESCRIPTION |
| ACCEL | Used for tracks representative of the acceleration event |
| AUTOX | Used for tracks representative of the autocross event |
| ENDUR | Used for tracks representative of the endurance event |
| SKID | Used for tracks representative of the skid pad event |
| HOLD | Used for engine rpm holds conducted on the dyno |
| SWEEP | Used for engine rpm sweeps conducted on the dyno |
| WARM | Used for logs relating to warming up the engine |
| OTHER | Used for logs not of the above type |

When the identifier “OTHER” is used a description of the track shape or dyno test is required in the long comment.

## Venue

Format: “**VENUE**”

Example: Blot

|  |  |
| --- | --- |
| Venue | Description |
| BLOT | B Parking Lot at Cornell |
| DYNO | Used for all dyno testing |
| LAB | At or outside the GM Lab |
| MIS | Michigan International Speedway |
| GLEN | Watkins Glen International Racetrack |
| DESTINY | Destiny USA Mall Parking lot |
| GROTON |  |

## Engine ID

Format: Filename of Tune file, dropping the extension

## Vehicle ID

Format: Filename of the Vehicle Configuration Spreadsheet

See the Standard for Instructions on updating the spreadsheet

## Driver

Format: “NetID”

Example: alw224

|  |  |
| --- | --- |
| On Car | On Dyno |
| Use the NetID of the Active Driver | Use the NetID of the Head Operator |

## Session

Format: “**Subteam ID**” “NetID”

Example: Flow alw24

|  |  |
| --- | --- |
| Subteam ID | Subteam |
| DRIVE | Used for driver training |
| DYNO | Used for dyno testing explicitly for the dyno team |
| FLOW | Used for testing conducted for the Flow subteam |
| AERO | Used for testing conducted for the Aero subteam |
| ERGO | Used for testing conducted for the Ergo subteam |
| UNSPRUNG | Used for testing conducted for the Unspring subteam |
| DTRAIN | Used for testing conducted for the drivetrain subteam |

|  |  |
| --- | --- |
| Case | NetID to USe |
| Driving Day | Head Driving Instructor |
| Dyno TUning | Head Dyno Operator |
| Testing for a Subteam | Individual who authored the test report |

## Start Lap

The name of the Test Report currently being followed

## Short Comment

Format: “**System ID**” “**Fault Code**”

|  |  |
| --- | --- |
| System ID | MEaning |
| ENG | Fault is related to the Engine |
| CHA | Fault is related to the Chassis |
| EE | Fault is related to the electronics |

|  |  |  |  |
| --- | --- | --- | --- |
| FAULT Code | SeveritY | Type of Fault | Example |
| ISU | Issue | Standard Maintenance Required | Out of Fuel |
| FAIL | Failure | Component requires attention | Headers leaking exhaust gas |
| CAT | Catastrophic | Component requires replacement | Rockers buckling |

## Long Comment

Required Information:

* Explanation of the Short Comment if not “Good Test”
* Explanation of the Event if “Other”
* General Comments on the test

The following parameters are to be included in every log fie related to driving the car:

Format: “**Parameter**”: “Value” “Unit”

|  |  |
| --- | --- |
| arameter | DESCRIPTION |
| Air Temp | Temperature of the air in degrees Celsius |
| Humidity | Percent humidity of the air |
| Wind | Wind speed in m/s and heading (N,NE,E,…) |
| Weather | Brief description of the weather (Sunny, rain, …) |
| Track Temp | Temperature of the track surface in degrees Celsius |
| trACK wETTNESS | How wet the track is: Wet, Damp or Dry (Choose one) |

## Example Details:

