

| Baseline runs are with typical tune based on the J4J1 tune from the 1994 Cobra. I upped the last row of the spark table to 28 degrees total. Two degrees are added each run to find the total spark advance that could be tolerated. All runs are done with 89 octane fuel. |           |         |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
|---|-----------|---------|------------|---|---|---------------|-----------------|------|-----|---------|-----|--------------------|-----------|--------------------------|--|
| # Run   | Cptr Time | FILE    | Delay Volt | START ECT   | Notes   | Data Log file | Dyno File       | PEAK |     | AVERAGE |     | Run Time 2200-5500 | Temp Rise | Temp Rise Rate (deg/sec) |  |
|   |           |         |            |   |   |               |                 | Hp   | Tq  | Hp      | Tq  |                    |           |                          |  |
| 1a  | 4:04      | 12.7-0  |            | 178   | dyno needed re-set                                  |               |                 |      |     |         |     |                    |           |                          |  |
| 1b  | 4:07      | 12.7-0  |            |   | dyno needed re-set                                  |               |                 |      |     |         |     |                    |           |                          |  |
| 1c  | 4:09      | 12.7-0  |            |   | dyno needed re-set                                  |               |                 |      |     |         |     |                    |           |                          |  |
| 1d  | 4:10      | 12.7-0  |            |   | good data didn't record hp & tq                     | #1-61009.csv  | #1-16-08-25.jpg | 233  | 271 | 188     | 249 | 16.643             | 8         | 0.4807                   |  |
| 2   | 4:11      | 12.7-2  |            | 196   | 232 Hp - 271 Tq                                     | #2-61144.csv  | #2-16-10-5.jpg  | 234  | 272 | 189     | 250 | 17.024             | 8         | 0.4699                   |  |
| 3   | 4:13      | 12.7-4  |            | 198   | 231 Hp - 270 Tq                                     | #3-61339.csv  | #3-16-11-58.jpg | 234  | 271 | 189     | 249 | 16.884             | 10        | 0.5923                   |  |
| 4   | 4:15      | 12.7-6  |            | 198   | 233 Hp - 270 Tq                                     | #4-61524.csv  | #4-16-13-50.jpg | 233  | 271 | 189     | 249 | 17.104             | 10        | 0.5847                   |  |
| 5   | 4:21      | 12.7-8  |            | 194   | 35.5 tt - 236 Hp - 271 Tq                           | #5-62146.csv  | #5-16-19-52.jpg | 237  | 272 | 190     | 252 | 16.700             | 6         | 0.3593                   |  |
| 6   | 4:22      | 12.7-10 |            | 200   | 36.0 tt - 234 Hp - 268 Tq                           | #6-62249.csv  | #6-16-21-09.jpg | 235  | 270 | 188     | 249 | 17.345             | 8         | 0.4612                   |  |
|   |           | 12.7-12 |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
| Baseline run with 14.7-0 program to establish actual AFR of this tune before water is added. This run was accomplished 11-25-04 off dyno on several 3rd gear pulls with 14.7-0 tune. Resulting data file is #0-02928.csv - No dyno file.                                    |           |         |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
| 25% Water   |           |         |            | (from data log this series actually saw 18.45% water) |   |               |                 |      |     |         |     |                    |           |                          |  |
| 25% is rough approximation of water/fuel ratio. On these dyno runs delay was set to 7ms. Actual percentag calculated in data analysis   |           |         |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
|   |           |         |            |   |   |               |                 | PEAK |     | AVERAGE |     |                    |           |                          |  |
|   |           |         |            |   |   |               |                 | Hp   | Tq  | Hp      | Tq  | Run Time 2200-5500 | Temp Rise | Temp Rise Rate (deg/sec) |  |
| 7   | 4:28      | 14.7-0  |            | 190   | 214 Hp - 253 Tq                                     | #7-62835.csv  | #7-16-27-15.jpg | 219  | 256 | 177     | 233 | 18.987             | 10        | 0.5267                   |  |
| 8   | 4:31      | 14.7-2  |            | 194   | 219 Hp - 257 Tq Dyno operator thought he heard ping | #8-63101.csv  | #8-16-29-40.jpg | 224  | 260 | 180     | 237 | 18.436             | 10        | 0.5424                   |  |
|   |           | 14.7-4  |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
|   |           | 14.7-6  |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
|   |           | 14.7-8  |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
|   |           | 14.7-10 |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |
|   |           | 14.7-12 |            |   |   |               |                 |      |     |         |     |                    |           |                          |  |

| 50% Water   |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
|---|------|---------|-----|-------------------------------|---------------|------------------|-----|-----|-----|-----|--------|----|--------|
| Delay was set to the very minimum (approximately 1ms).    |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| (from data log this series actually saw 40.37% water)     |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| PEAK AVERAGE  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| Run Time Temp Temp Rise Rate                              |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 2200-5500 Rise (deg/sec)                                  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| Hp Tq Hp Tq   |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 9   | 4:33 | 14.7-0  | 198 | 211.8 Hp - 252 Tq             | #9-63342.csv  | #9-16-32-19.jpg  | 216 | 255 | 174 | 229 | 19.268 | 10 | 0.5190 |
| 10  | 4:38 | 14.7-0  | 196 | 211.0 Hp - 254 Tq             | #10-63823.csv | #10-16-36-48.jpg | 217 | 256 | 175 | 230 | 19.258 | 10 | 0.5193 |
| 11  | 4:41 | 14.7-2  | 198 | 217 Hp - 258 Tq               | #11-64102.csv | #11-16-39-17.jpg | 221 | 262 | 179 | 235 | 18.496 | 10 | 0.5407 |
| 12  | 4:44 | 14.7-4  | 190 | 223.0 Hp - 266 Tq             | #12-64429.csv | #12-16-42-29.jpg | 225 | 267 | 183 | 242 | 17.936 | 6  | 0.3345 |
| 13  | 4:49 | 14.7-6  | 198 | 227 Hp - 265 Tq               | #13-64912.csv | #13-16-47-26.jpg | 231 | 268 | 184 | 243 | 17.264 | 4  | 0.2317 |
| 14  | 4:51 | 14.7-8  | 194 | 230 Hp - 265 Tq               | #14-65122.csv | #14-16-49-28.jpg | 234 | 268 | 187 | 246 | 17.375 | 10 | 0.5755 |
| 15  | 4:53 | 14.7-10 | 194 | 38 tt - 232 Hp - 266 Tq       | #15-65336.csv | #15-16-52-02.jpg | 235 | 268 | 187 | 247 | 17.515 | 6  | 0.3426 |
| 16  | 4:57 | 14.7-12 | 180 | 40 tt - 233 Hp - 266.7 Tq     | #16-65734.csv | #16-16-56-01.jpg | 236 | 268 | 189 | 249 | 17.075 | 10 | 0.5857 |
| 20% Water (5ms delay)                                     |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| (from data log this series actually saw 28.8% water/fuel) |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 12.7-0  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 12.7-2  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 12.7-4  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| PEAK AVERAGE  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| Run Time Temp Temp Rise Rate                              |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 2200-5500 Rise (deg/sec)                                  |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| Hp Tq Hp Tq   |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 17  | 5:03 | 12.7-6  | 186 | 32tt -234 Hp - 272 Tq         | #17-70331.csv | #17-17-01-55.jpg | 235 | 273 | 190 | 251 | 16.894 | 10 | 0.5919 |
| 18  | 5:05 | 12.7-8  | 196 | 36tt - 237 Hp - 272 Tq        | #18-70505.csv | #18-17-03-10.jpg | 238 | 274 | 191 | 252 | 16.854 | 10 | 0.5933 |
| 19  | 5:07 | 12.7-10 | 196 | 36tt - 236 Hp - 271 Tq        | #19-70708.csv | #19-17-05-32.jpg | 238 | 273 | 190 | 252 | 16.805 | 6  | 0.3570 |
| 12.7-12   |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| Backup Runs All Fuel                                      |      |         |     |                               |               |                  |     |     |     |     |        |    |        |
| 20  | 5:09 | 12.7-6  | 194 | tt 32.0 - 240.6 Hp - 276.0 Tq | #20-70923.csv | #20-17-07-49.jpg | 241 | 277 | 194 | 256 | 16.493 | 10 | 0.6063 |
| 21  | 5:12 | 12.7-8  | 194 | tt 36.0 - 241.1 Hp - 274.0 Tq | #21-71208.csv | #21-17-10-33.jpg | 242 | 275 | 193 | 255 | 16.254 | 10 | 0.6152 |