Racing Computers @

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VERSION 51 ADDENDUM TO THE VIDEO TAPE

To see how these programs work, just keep hitting ENTER to see the sample set of numbers that are in there now. Check where the decimals are, then put in numbers of your own. The sample will then be gone forever. If you have questions, please call anytime.

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Program	Description	
40 41	Fuel Volume Main/HiSpd Balance	The Complement to 39. To keep the fuel the same when the Hi/Spd opens.
42 43 44 45 46	Prop Slippage Speed RPM Overdrive Prop Pitch	For Boats Laid out like 12'- 16. Just hit Enter to see how the sample numbers look.
47 48	C° F° F° C°	
49 50 51	Valve Springs Cam Specs Cam Timing	From Timing Specs. From Cam Specs.
98	1 Car or 6 Car Set-up Cho	bice Hit 1 or 6 then Enter
99	Altimeter or Barometer Se	t-up Choice Hit 1 or 2 then Enter

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PROGRAM 52

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Enter all your down track **ET's** If you don't have some of the clocks – like a **330**", just put in the previous clock once again – like a 60 ' ET. Then the 330 – 660 ET will actually be a 60' – 660' ET. This is just a program to see where you lost ET for diagnostic purposes.

VERSION 54 UPDATE

Programs4 & 2 (off the menu button)

Both of these Programs give an answer in the form of a unit of measure. PROGRAM #1 lets you know how many feet of density altitude change it takes to make the ET change by .010 (a hundredth). At the top of PROGRAM #1, there is a statement that says "feet per hundredth". This is a preview that lets you know what figure is in the program now. This will make more sense to you later once you watch the tape. Just hit enter to get past this statement and into the Program. This preview is a way to see what figure is in the Program now in case you had previously entered this figure directly. PROGRAM #2 uses the same convention for the TIMER RATIO.

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IMPORTANT -- PLEASE READ

TO OPERATE QUICK-ACTING TEMP/HUMID GAUGE

Leave lid on while not in use to shade from sunlight, and to keep exhaust gases off it.

When you think you will need to use it within 2 or 3 minutes, turn the unit on so if there is any benefit from warm up, it will get it.

Walk away 200' or so to get out of the staging area. You need to stay away from exhaust gas and hot car bodies -- etc. Try to find a place that will be in the shade all weekend or at least look down at your shadow and keep the gauge within its perimeter to provide shade.

Take the cap off (above LCD window) by pulling it upward.

The unit should only take 20 seconds or so to settle down to the new environment (200' away) but I like to give it a couple minutes to make sure. While you are looking at it, make sure there are no other words or letters on the display except the % after the Humidity amount, and F after the Temperature amount. If there are -- get rid of them by understanding the following:

When pressing any of the buttons, you have to hold that button down till you get a change in the display. That indicates it has now switched to the new display you want to see.

- Hold Freezes readings on screen while HLD appears -- press reset to clear. RST = Reset
- C/F Toggles between Centigrade and Fahrenheit. You want to be in the F mode.
- TD Means Dew Point -- press again to revert back to ambient temperature.
- Min/Max Switches from Minimum conditions to Maximum and back to ambient each time button is pushed. You can reset either setting by pressing RST while you are in the mode to be reset.

888-8 L- 1170 **E& C** Racing Computers® Phoenix, AZ 85016 • (602) 274-2537 • FAX (602) 274-2515 1213 N. 18th Place menu: # program #/ Enter High ALT - 160 High Et - 8.9D LOW ALT - O LOW ET - 8.89 FT. par Hnd - 160-# program #2 Enter `___ LATIO - 3 ts1/tmr2 -2 Quick ts/tmr - 2.0 - 8.89 Quick ET SLOW TS/TMR - 2.03 SLOW ET - 8.90 TMR RATIO -3 Reset Button: turn DA. Hit reset on BACK ** ** - Hot Enter button + - Hit Enter button turn OFF, whit 5 sees. turn on, O should be there re-enter numbers in pro. #1+2 on CAL. Side these are the brains. BD this For each CAN. (2) Butteries 2032 Only.

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Version 49

	Inst	ruments
	Com	put e r
		Batteries
		Buttons and Programs
		Altimeter or Barometer
0:21:00	B1	Density Altitude
0:28:45	P1	Air Set-up
		Dial-in
	P2	Throttle Stop and Timer Set-up
1:10:40	B2	Throttle Stop and Timer Frogram Torque Converter Slippage
1,10,10	P12	lorque Converter Slippage
	713	Speed
		RPM Grocars
		Gear <u>C</u>
1195190	F10 D17	Tire Don't forget to plan for 1" or 1 1/2" of growth Horse Power from Speed
112010-	Г1/ D1Q	Speed from Horse Power
		ET from Speed
		Speed
	P31	RPM For Go-Karts
		Gear • (and Motorcycles
		Tire ,
	B4	Compression
	P36	Poured Dome Volume and Compression
1148:20		Total Nozzle Area
		Pill
		Main By-pass Starting Point
		Fuel Needed
	P4	Orifice Diameter
		Parallel Orifices
	P5	Combination Change CFM
	-	Fuel Volume by Time or Quantity
		Fuel Consumption, Hose ID for Carburetors
		Fuel Line Reverse PSI
1/16:30		Mikuni Hex Jet
		Mikuni Round Jet
		Jet by Size
		Holley Jet
		Power Valve Restriction
		Jet Change for Nitro
	B7	Nitro % 2:24100 P25 Ealance
		Pulley 0D % P26 compression Distance
		Blower OD % P27 Rob Length
		Horse Power from Torque P28 Deck Height
	P35	Torque from Horse Power P38 Winning Clearance

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OUTLINE FOR USE BY A BRACKET OR SUPER CLASS RACER

PREREQUISITE:

For the Bracket racer, the Air Set-Up program must be set up. If you haven't got it loaded up with real numbers from your car, as per the instructions, then give me a call and I will fix you up with some numbers that can get you off to a good start. For the Super Class racer, you also have to set up the Throttle Stop and Timer Set-up program. I can help you with that as well.

Note:

It is imperative that you get a logbook. Or at least use the sample that came with your computer. Always use the sample as an original, Write original on the back so you won't use it. You don't want to keep copying copies.

FOR BRACKET RACING:

Catch the weather conditions and compute the Density Altitude immediately after each Time Trial run. You must take these Temperature and Humidity readings in the same place during Time Trials as you are going to during Elimination's. Have a helper; catch the weather details within 1 or 2 minutes of each run if you can't drive straight back. Fill out the log after each run. After the last Time Trial, pick out the best run (as per the 10 page story) and load it into the Dial-Improgram - thereturn the computer

off

When your class is called, go to the Density Altitude program and enter the Pressure Altitude (Altimeter reading) then turn the computer off Within a couple minutes before the 1st round, run the Density Altitude program, and finish it off with Temperature and Humidity and the second sec

After each round, you need to reload the Dial-in program with either that run, if it is as good or better than the last round, or leave set up the same as it was, and pretend that last round never happened.

After reach round, repeat the paragraphs above.

OUTLINE:

After each round – Reload, if necessary, the Dial-in program. Before each round – Run the Density Altitude program, then the Dial-in program.

FOR SUPER CLASS RACING:

Super Class racing uses the same procedure with a couple exceptions:

1). You will be aiming for a specific ET (your Index): therefore, you must run the Density Altitude Program and the Throttle Stop or Timer program before each Time Trial as well as Eliminations rounds. For 1st round of time trials, you will need to reference a good run from the last time you were at the same track or one that is near the same Index.

2). You still have to set up the Throttle Stop and Timer program after each round—if necessary, but it will **be** easier to recognize a good run. That will be a run that is on the Index or quicker. Don't be faked out by a run that was on the Index, but the 60' time was abnormally quick by .020 seconds. That means it was really .020 seconds slow. See the 10 page story on 'How to Scrutinize Runs'. OUTLINE:

After reach round – reload, if necessary, the Throttle Stop and timer program.

Before each round – Run the Density Altitude program, then the Throttle Stop and Timer program.