

UTMB 2003 05

CAL Mead BAL  
COMPOSITION

Dec. 03 → Aug. 05

100 sheets • 200 pages  
9<sup>3</sup>/<sub>4</sub> x 7<sup>1</sup>/<sub>2</sub> in / 24.7 x 19.0 cm  
quadrille • 09926

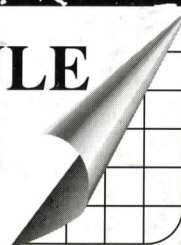
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Dayton, Ohio 45463 U.S.A. Made in U.S.A.



Woodie will  
Be here  
tomorrow!  
thurs.  
Spen

QUAD RULE

5 squares  
per inch



Index - Caloric Balance I  
List of Systems, H/W, S/W and Status 1

Development of S/W 20

Development of Systems 25

Theory, Patent 50



# CB & I Prototypes -

1 Arndt - Dell L.T. + Mettler Wildcat  
Dec. 03 - Rpl. Dell \*  $\bar{c}$  HP & MK II SW. n=2  
①

1  
Probs  
PS on Dell failed  
Scale signal conn.  
came loose

(Dell removed from svc.)

2 M.K. - <sup>Mettler W.C.T.</sup> H.P.  $\bar{c}$  MK I S.W. - Borrowed  
system in Nov. - Rpl. H.P.  $\bar{c}$  Compaq  
and MK II S.W. PN DM745A#ABA ②  
SNCNF 34222DZ

HP Image too  
large for screen

3 Runge - Mettler  $\bar{c}$  HP ③ & MK II  
spw. n=5(?)

4 Hunley - Mettler  $\bar{c}$  ~~Compaq~~ HP  
M-ZE 4525 US, S # CNF 33811

NS  
MK I & II SW - Release n=5  
Demo n=7  
Time, Display 2 min -  
Capture Time 0800  $\pm$  02 hr.  
ID Wt.  $\pm$  3%  
sliding window - 30 D

4-Feb-06 W.T. & J.T. are using Mettler Wildcat SN 000-  
and Compaq PN-DM745A#ABA 352 6AE

5 Creech - Mettler  $\bar{c}$  Compaq  
M# DM745A#ABA S# CNF 3471 KFT

6 Dell LT CP 08S Purch. by TTX. ~12-04

Tanita WB-100A/WB

7

Tanita WB 100A

Purch by W.T. 1 Jan '06

M. K.

Jan 13 - Went round to see why would not record MK-  
04 No initialization - Reset.

14 - Still not wkg. will try again

27 - Will rtn. to T<sup>2</sup> - B.C. prog. & same prob.

Dec 28 Scale wasn't being used - Removed

Gave computer to [1] and bought Dell L.Top M.D. loaded  
program but on attempted use would not comm. & scale  
Also computer shut down when lid was closed. Took scale & computer  
to T<sup>2</sup> and started it this morning.

When turned on it comes up on CB

It accepted my three initial wts. and showed initial wt. on scale  
as blue dot.

Jennifer did her initial 3 while mine were displayed but  
her screen was never displayed but later it ID'd her as CB-2  
when she did a single wt.

Shut scale down & restarted it - Would not display single wt.

Then clicked on CB & change in screen and it then  
display wt. (current)

Feb. 06 Did not Use



Range

3

8 Jan Unit worked well c 3 subs. but thinks was disconnected + not working - Suggested be shut down, start scale first - Then turn computer On - If doesn't work I will stop by 21th - I will call sofy.

20 says is working fine -

17 Dec. '03

4

6

K.H. - Installed 3 difficulty in Bath Rm.

18 Dec. '03 - Reported to have initialized normally

14 Jan '04 - Working - has lost 3#  
Did not sound impressed  
Says it clutters her B.R.

Feb-06

4 2 05 4 mag DM T45 ABA ABA  
CNF 3471 KFR

Exceeded 355 day limit - 1000 day - Tested CB2

Reset Alt 2x2

Config - CB1 .1 day 0800 ET  
CB2 .1 " " " "  
Both { Short Disp 7d/2min  
Long " " 100/1 " "



Bill Creech

Set up Mettler scale which ckd. out normally using T<sup>2</sup> routine. Nothing w could be xfrd. to computer. Scale ckd. 3X and computer operate + demo crashed + fried repeatedly - Adapters + cable ~~had~~ changed out.

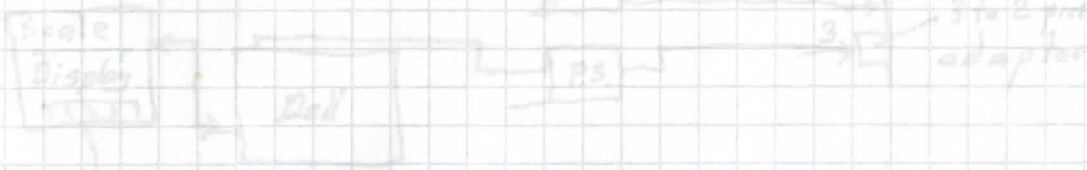
27 Will take to T<sup>2</sup> 2 MK[2] system

14 Jan '05 Scale has worked well, used and accepted by B.C. & K.C. - both lost wt.

24 2 05 Comag DM T45 A~~XX~~ ABA  
CNF 3471 KFA

Exceeded 355 day limit ~ 1000 day - Tested CB2  
Reselt Alt 1 & 2

Config - CB1 .1 day 0800 ET  
CB2 .1 " " " "  
Both { Short Disp Td / 2 min  
Long " " 100 / 2 "



Tried no difficulty, 2 initialization but found  
"Error" - Rechecked computer + M.B. initialized  
normally

2<sup>nd</sup> day again same problem - CB 3 engine  
"Error" - Still in place - no reports

6

8

A.S. wants scale for herself, Amond. + Daughter.

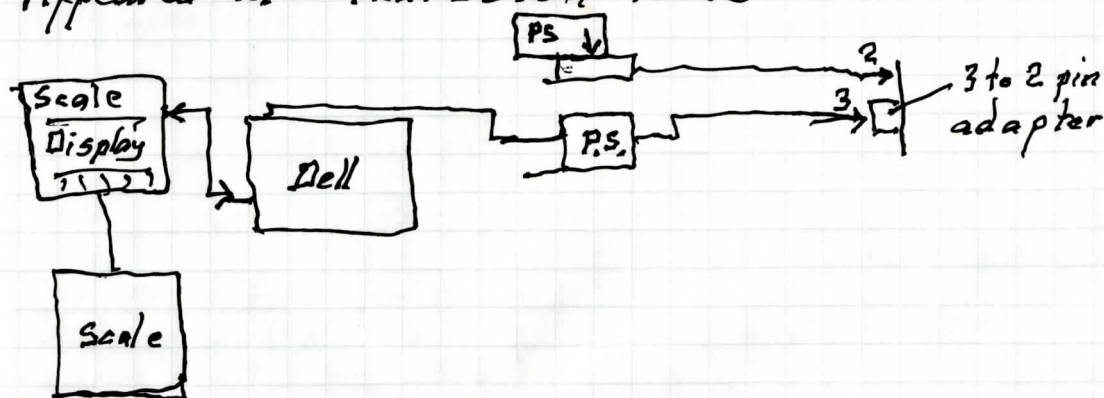
Have replaced [2] c Tanita 100 scale and am preparing  
~~2 Mettler~~ 2 Dell L.T. for potential X'fer. to A.S.

|        |       |           |      |
|--------|-------|-----------|------|
| 1 - .1 | Slope | 355 - Day | 0800 |
| 2 - .1 | Slope | E.T. zone |      |
| 3 - .0 | Slope |           |      |

Display  $\leq$  7 day 60 sec, in sequence  
 " 90 " 6.0 "

14 Set. Need adapters for pwr. Tanita P.S. has 2 pins of same size  
 Dell battery was disch. HP has 3 pin  
 Charged battery + conn scale - appeared nl.

15 Set Up adj. Bath room - good location -  
 Appeared nl. Instructed Anne -



16 A.T. had no difficulty, 2 initialization but found  
 "desktop" - Restarted computer + M.B. initialized  
 normally

17 2<sup>nd</sup> day operation routine - the CB 3 begins  
 tomorrow  
 6 Feb - Still in place - no reports

7

9

6 Feb, 06 - Tanita WB 100 A

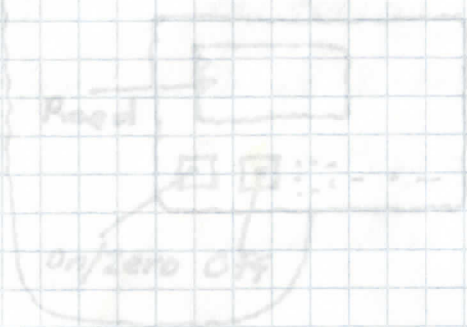
HP - P.N. - DR 434 U  
SN CNF 338 11 NS

Plan is to demo for BDM then ship to Pendus,  
Portland -

### Scale

Place on hard  
level floor -  
has adjustable feet

Wall outlet  
110VAC



Scale power supply

### Display -

Locate as desired -  
ET Up  
• Place Scale on floor and level with bubble by moving feet in or out

### Operate (Cont'd.)

- Stand still on scale until Read arrowhead appears
- Read weight

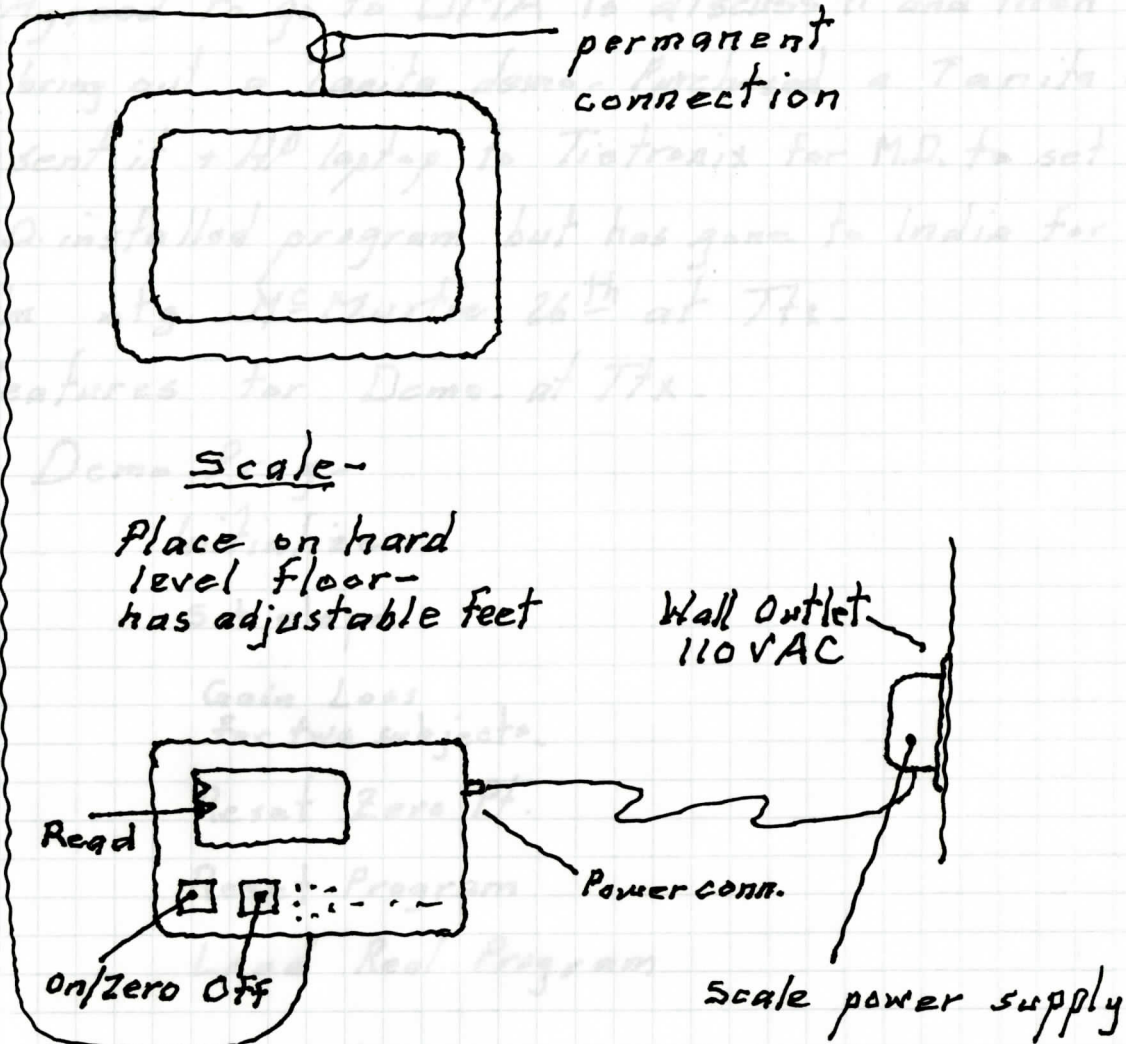
Note: Ignore, do not play with other buttons

### Operate

- Press on button and wait for zero



# Scale Operation



## Display -

Locate as desired -

### SET Up

- Place Scale on floor and level with bubble by screwing feet in or out
- Plug power supply in wall and connect to Display

## Operate

- Press on button and wait for zero

## Operate (Cont'd.)

- Stand still on scale until Read arrowhead appears
- Read weight

Note: Ignore, do not play with other buttons

25 24 Jan. '06 QAL  
BDM called - claimed interest in CB.

11

Agreed to go to DMA to discuss it and then suggested  
I bring out a Tanita demo - Purchased a Tanita D100  
& sent it + HP laptop to Tietronix for M.D. to set up -  
M.D. installed program but has gone to India for 3 wks -  
I'm mtg. M. Murtie 26<sup>th</sup> at Ttx.

Features for Demo. at Ttx.

Demo Prog -

Initialize

Set slope

Gain Loss  
for two subjects.

Reset Zero Pt.

Reset Program

Load Real Program

Reload Demo

Transfer to computer  
& Print

Set Time

Data X'fer.



17 Jan - S/W development

20

Cal Bal Tanita I

A. Write prog in JAVA <sup>old Prog. V Soft.</sup> Visual C ~~++~~  
to interface Scale E P.C.

(Tanita Test)

Interface has been incorporated in CB Vers 3 <sup>or</sup> Mettler

Nu. CB Vers 3 Tanita

? Separate Programs

Subject On Off scale  $\Delta$  wt. = 0

Tanita

Interrogate 2/sec

Mettler  
Continuous output  
7 n/sec  
Mettler

| WT E clothes |        | 199.8 199.8 |                       | 199.0 199.0 |   |
|--------------|--------|-------------|-----------------------|-------------|---|
| Diapl        | Record |             |                       |             |   |
| 1 200.0      | 200.0  | "           | "                     | "           | " |
| 2 "          | "      | "           | "                     | "           | " |
| 3 "          | "      | "           | "                     | "           | " |
| 4 "          | 9.8    | 8.8         | 8.8 <sup>switch</sup> | "           | " |
| 5 "          | 200.0  | "           | "                     | "           | " |
| 6 "          | "      | "           | "                     | "           | " |
| 7 199.8      | "      | "           | "                     | "           | " |
| 8 200.0      | 9.8    | "           | "                     | "           | " |
| 9 "          | 200.0  | "           | "                     | "           | " |
| 10 "         | "      | "           | "                     | "           | " |
| 11 "         | "      | "           | "                     | "           | " |
| 12 9.8       | "      | "           | "                     | "           | " |
| 13 200.0     | 0.0    | "           | "                     | "           | " |

9.8

9.8

"

"

9.8

200.0

9.8

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

MD and I were concerned about least count errors but this should occur only in A/D conversion. Once digitized there should be no transfer error. Any differences in above transfer appears to come from Tanita's selection of valid data  $\bar{x}$  which changes from moment to moment vs single value from Mettler. Pt. stability that may be signif. in Tanita.



17 Jan 2 MD

21

Parameter - Set Parameters

Valid Meas Time Gate (hrs)

" " 2. (AM-PM)

" " 3. Width - (hrs) default 2

Weight Window  $\pm 3\%$  (%)

Prescription slope  $\Delta Wt/day$  ( $0.1\% \Delta$ )

Weight tolerance - voice  $\pm 3\%$  of  $\bar{x}$   
Mean WT

Add Parameter Cut + Paste

How to Trouble shoot

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Time Zone is on computer -  
How to set time zone

---

Demo List -

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Prog. List. For A/S 6

1 Vers. 3 Mettler -

Demo -

---

How to  
load mem stick  
data from mem stick -

17 Jan 05 in ch data

22

Questions: Memory/stick;

1. How many ~~memory~~ loads can I put on it?

How do I transfer them?

How many programs

How does one transfer them to a computer.

Programs:

How to load into:

Lap top

P.C.

How to unload (erase) program

Need:

Verified copies of all C.B. source files

Index of components of files

Way to manually load data into program on P.C. & print.

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Ans. p Stick

Prog. in C.B. prog. Xfers. data from computer to ~~the~~ stick.

Data is overwritten when stick is conn. to another

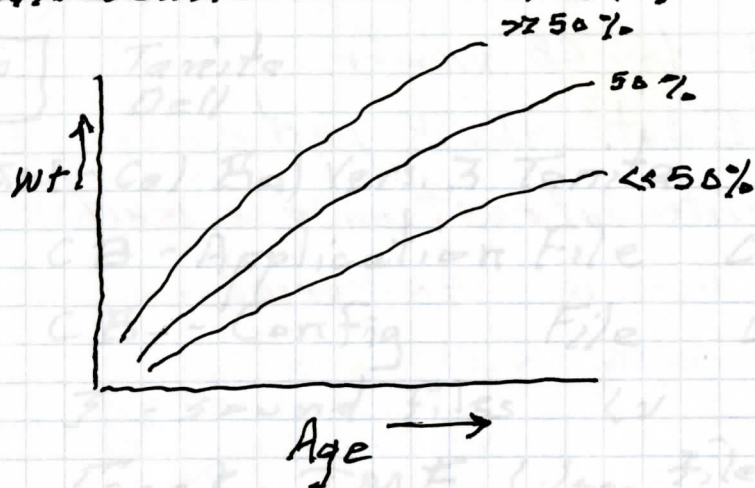
C.B. computer, e.g. CB1a data will be overwritten by CB1b

Advised to keep individual sticks for each computer.

C.B. Programs can be loaded from sticks since they are small.

Wt. control in children:

17 Jan 23



This obviously  
needs correlation  
w height -

BMI scales?

SW/CDs - E

Lead Compag E Home

Toronto  
Mother

LAH BAL-Demo

View prog -

1<sup>st</sup> Trans E. CB files by:  
My calculator

Key By CONTROL - Press \* hold \*

so to edit -

1<sup>st</sup> CK Copy - Close Window

1<sup>st</sup> CK - Alt Top

1<sup>st</sup> CK - on PASTE 1<sup>st</sup> CK on PASTE

1<sup>st</sup> IR on CB - 1<sup>st</sup> CK copy (over page)



18 Jan, Rcvd From TTX-

24



Tanita  
Dell

S.W. - Cal Bal Vers. 3 Tanita (incl mem Xfer)

CB - Application File Cal Bal.exe

CB - Config File Cal Bal.ini

3 - sound files LV

Track - TMF (Log. file for sps)

Cal Bal - sub j Files

SW/CDs - E

Load Compag c demo-

Tanita  
Mettler

CAL BAL-Demo

P.C.  
Viewprog-

1<sup>st</sup> Transf. CB files by:  
My Calculator

Key By CONTROL - Press & hold &  
select

Go to Edit-

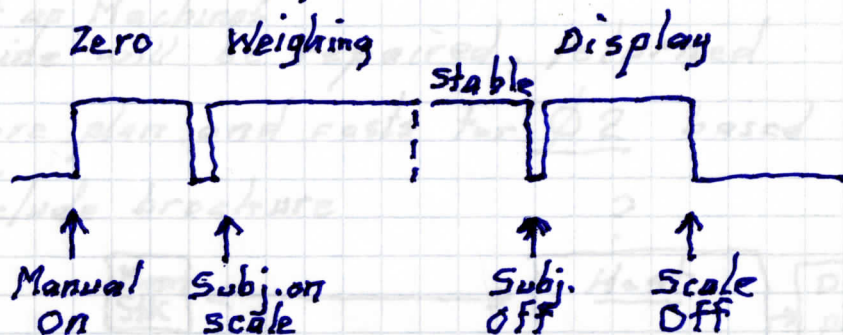
① CK. Copy ~ Close Window  
① CK - DESK Top

① ① CK - on PASTE ① CK on PASTE

② # ① CK on CB - ① CK copy (over page)

23 Nov. 04 Tanita 100 A scale is cheaper (275) and performs well but has  $\pm 2$  lb. resolution. Also manual activation is reqd.

On sequence:



Purchased 2 days of M.D.'s time (Tanq, \$900) to explore interfacing of above  $\bar{e}$  existing program. M.D. called saying (I think), that he could interrogate the scale and receive wt. + stable indications - felt it was safe to purchase scale.

Instructed him to send report plus look at est. calendar time and cost of adding to existing programs.

Objectives:

1) Simplicity esp. ops.

2) Functionality

3) Reliability/Life (5 yrs)

4) Cost

12 Jan

Purchase: Maxtor 20 GB USB + CD 26

Tiefronix 23 Feb. 05  
for Thurs P.M.

1. Murtaza

Documentation for set up

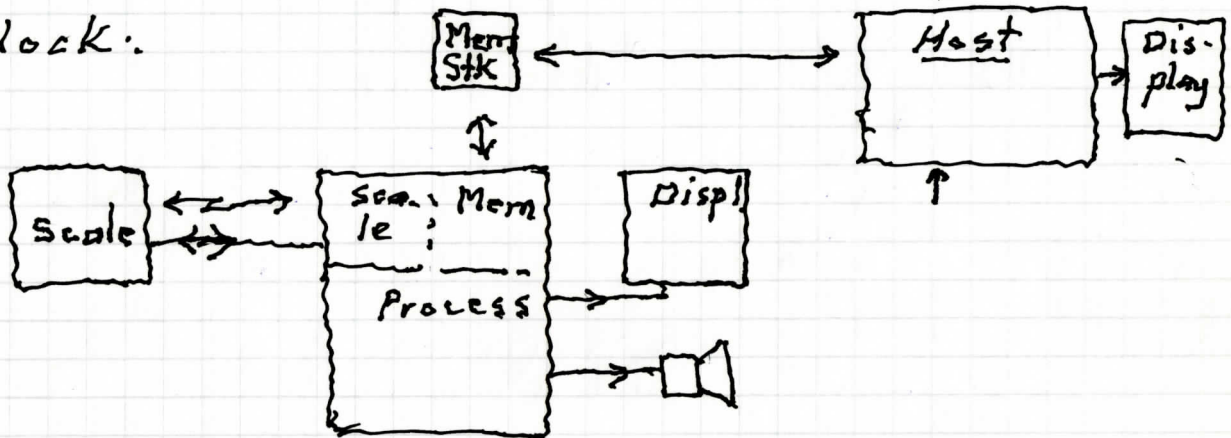
W.T. will set up Machines

BC machine will be repaired, returned

2. Ttk. will prepare plan and costs for Ø2 based  
on W.T. input.

This will include brochure

Block:



Objectives:

- 1) Simplicity esp. opns.
- 2) Functionality
- 3) Reliability/Life (5 yrs)
- 4) Cost



26 Jan '06

DMA Demo.

Computer loaded  $\bar{c}$

1. Demo

2. Release (Ops.) File

Clear Data Files (Patient Data Files)

START

My Computer

Local Disc 2L

(Cal Bal Tanita - operational)

(Cal Bal Demo)

double click (L) program desired  
[Folder] Cal Bal Demo Display

Pf. wt. Hx in CB-1, 2 etc.

lk on CB 1, 2 etc.

Delete (Button)

Verify (Yes)

Continue for add, delet.

[ New ~~File~~ Pt. File (Up to limit generated  
by standing on scale X 3 - Demo  
must be re selected)

Config Setting - File on Cal Bal Demo

Allows Prog. Param Change

Open  $\bar{c}$  2L

Go to P-31

Changes - I.D. - CB-1 etc -

Weight - Auto

Time -

Loss Rate -

Tgt. Wt for Voice -

Prescribed Tgt. Wt. -

To Add. Addit. Pt.

1L click on Pt. Parameter  
scroll down

Control C (copy)

1L

Control V (adds copy)

then change Pt. #

Put Cursor on 2 slide (highlight)

Type desired #

then change Pt 12) same way CB - 11

" " Pt 10  
space

To Implement

File

ⓁC

Save 1L

click on X

Go To P- 33

Demo WT - 196.8

32

7 Feb '06 DM - 179.2

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Cable SCALE PC

Voice not in Program

Resetting slope requires 30 days.

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## RESETTING PARAMETERS

Sec F-30

---

Specs - Ken

---

Computer Display of Data -

Insert Mem 5th.

My Computer

Take No Action

2LC on Remov. Disc,

CB - no - 2LC

only Data -

---

\* Need Displ. Prog -



# BDM Trip -

33

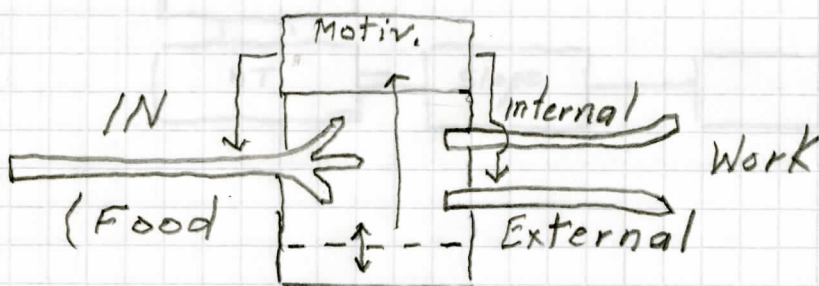
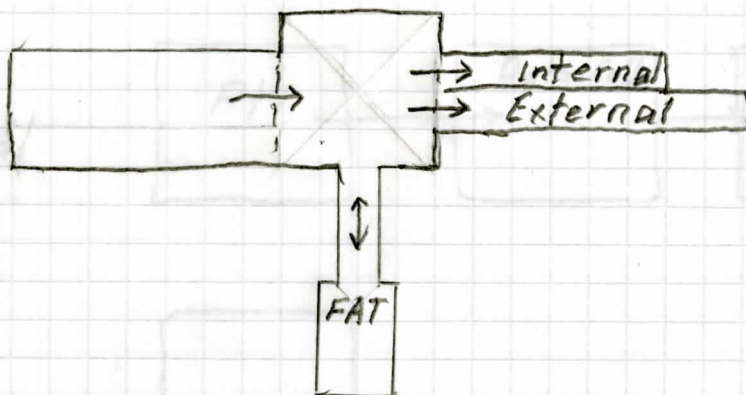
7 Feb. '06

Discussed  $\bar{c}$  BDM + J.H. - Neither were familiar  $\bar{c}$  extent of fat problem nor diabetes I+II nor C.V. and other risks. General discussion of above + C.B. Features. Both, esp. J.H. seemed to understand.

8 Feb. '06

Briefed BDM + J.H. thru C.B. D1Y + Semi Pro -

# Caloric Balance, Theory



$$C_{in} = C_{out} + C \pm C_{fat}$$