This is a list of all corrections made to Computers & Typesetting, Volumes A–E, between 16 June 1987 and 20 February 1989. Corrections made to the softcover version of The T_EXbook are the same as corrections to Volume A. Corrections to the softcover version of The METAFONTbook are the same as corrections to Volume C. Some of these corrections have already been made in reprintings of the books. Some of these corrections affect the indexes and mini-indexes of Volumes B and D in ways not shown here. Corrections made up to 15 June 1987 appear in other files.

Page A159, line 22	(2/15/88)
'\nolimits' if the normal \displaylimits convention ha	as been overridden; a Rad
Page A213, lines 34–35	(12/23/87)
text will be a single control sequence token, defined to be licurrently undefined.	ike \relax if its meaning is
Page A299, line 30	(7/6/88)
Fatal format file error; I'm stymied.	
Page A326, line 12	(12/12/87)
its natural width. The \hbox version also invokes $\langle everymax \rangle$	ath.
Page A359, line 2	(11/6/88)
$\label{eq:limit} $$ \mathbf{T}^{0} = 0.01 \ \mathrm{T}^{0} \ \mathrm{T}$	athchardef\colon="603A
Page A359, lines 35–38	(5/24/88)
Page A364, line 35	(11/6/88)
\def\fmtname{plain}\def\fmtversion{2.94} % identifi	ies the current format
Page A379, line 15	(10/12/87)

\def\deleterightmost#1{\edef#1{\expandafter\xyzzy#1\xyzzy}}

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Page A383, lines 7–15 from the bottom

(1/4/89)

209 strings out of 1685 1659 string characters out of 17636 27618 words of memory out of 52821 1172 multiletter control sequences out of 2500

Consequently there was plenty of room for more macros: 52821 - 27618 = 25203unused cells of main memory, 2500 - 1172 = 1328 of name memory, 1685 - 209 =1476 of string memory, and 17636 - 1659 = 15977 of character memory. But a fairly large T_EX was being used, and only the macros of Appendices B and E were loaded; in other circumstances it might have been necessary to conserve space.

Page A454, lines 23–29	(8	/13	/8'	$\overline{7}$
- age 1110 1, mice = 0 = 0	(~	/ + 0	/ ~ '	• /

 $\widehat{ \ } \widehat{ \ }$

Page A458, left column, line 19	(2/15/88)
\ (), $146-147$, 171 , 361 , 435 , 438 .	
Page A462, left column, line 7	(10/9/87)
152, 178, <u>360</u> .	
Page A463, left column	(4/17/88)
*\day, 273, 349, <i>406</i> .	
Page A464, left column, under Displays	(12/8/88)
non-centered, 186, 326, 375–376, 420–421.	
Page A465, entry for \everymath	(12/12/87)
[Include also a reference to page 326.]	
Page A465, right column	(7/6/88)

Fatal format file error, 299.

Page A473, entry for 'page builder'	(8/13/87)
when exercised, 122, 280–283, 286–287.	
Page A474, left column	(12/27/88)
*\parshape, 101-102, 214, 271, 277, 283,	
Page A480, right column	(2/15/88)
\vdots (:), 177, <u>359</u> .	
Page A481, right column	(7/3/87)
\z@, <u>347</u> , 348. \z@skip, <u>347</u> , 348.	
Page B2, line 32	(2/20/89)
define $banner \equiv \text{`This}_{\sqcup}\text{Is}_{\sqcup}\text{TeX},_{\sqcup}\text{Version}_{\sqcup}2.97$ { pr	inted when T_{EX} starts }
Page B38, lines 7–9 from the bottom	(11/6/88)
[Delete this paragraph; it is being moved to page B2]	4.]
Page B38, line 5 from the bottom	(12/14/88)
begin if <i>log_opened</i> then <i>selector</i> \leftarrow <i>term_and_log</i>	
Page B39, line 5	(12/14/88)
if log_opened then error;	
Page B52, line 5	(8/13/87)
cannot be done, i.e., if $hi_mem_min = lo_mem_max +$	-1, we have to quit.
Page B54, lines 34–35	(7/9/88)
begin if $hi_mem_min - lo_mem_max \ge 1998$ then $t \leftarrow else t \leftarrow lo_mem_max + 1 + (hi_mem_min - lo_mem_max)$	
Page B108, new line after line 8	(5/24/88)
d: integer; { number of characters in incomplete cu	rrent string }

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Page B108, lines 31–33	(5/24/88)
$str_room(l); d \leftarrow cur_length;$	
while $pool_ptr > str_start[str_ptr]$ do	
begin $decr(pool_ptr)$; $str_pool[pool_ptr + l] \leftarrow str_pool[pool_ptr]$; end; { move current string up to make room for another }	
for $k \leftarrow j$ to $j + l - 1$ do append_char(buffer[k]);	
$text(p) \leftarrow make_string; pool_ptr \leftarrow pool_ptr + d;$	
Page B115, line 12	(4/28/88)
$group_code = 0 \dots max_group_code; \{ save_level \text{ for a level boundary} \}$	
Page B141, line 19	(4/28/88)
<pre>par_token: halfword; { token representing '\par' }</pre>	
Page B150, line 24	(4/28/88)
358. The present point in the program is reached only when the <i>expand</i> routin	e has inserted
Page B151, mini-index	(4/28/88)
Delete the entry for ' <i>no_expand</i> '; replace it by: expand: procedure , §366.	
Page B154, lines 25, 29, 34 respectively	(9/20/87)
$\begin{aligned} & \textit{cvl_backup, radix_backup, co_backup: small_number;} \{\texttt{to save cur_val_level, etc.} \} \\ & \textit{co_backup} \leftarrow \textit{cur_order; backup_backup} \leftarrow \textit{link(backup_head);} \\ & \textit{cur_order} \leftarrow \textit{co_backup; link(backup_head)} \leftarrow \textit{backup_backup;} \end{aligned}$	
Page B155, new entry for mini-index	(9/20/87)
cur_order: glue_ord, §447.	
Page B156, line 28	(12/23/87)
begin $eq_define(cur_cs, relax, 256);$	
Page B157, mini-index	(12/23/87)
Delete the entries for ' $eqtb$ ' and ' $frozen_relax$ '; replace them by the following: $eq_define:$ procedure, §227. relax = 0, §207.	
Page B162, lines 12–14	(4/30/88)
repeat $link(temp_head) \leftarrow null;$	

repeat $link(temp_head) \leftarrow null;$

if $(info(r) > match_token + 127) \lor (info(r) < match_token)$ then $s \leftarrow null$ else begin $match_chr \leftarrow info(r) - match_token; s \leftarrow link(r); r \leftarrow s; p \leftarrow temp_head; m \leftarrow 0;$

Page B177, bottom line before mini-index	(7/13/88)
$cur_val \leftarrow 0; \ cur_val_level \leftarrow int_val; \ radix \leftarrow 0; \ cur_order \leftarrow 0;$	
Page B181, line 31	(4/28/88)
[Change 'x units per sp' to 'x sp per unit'! This change also should be made on l line -8 of page B590.]	line 1 of page B183 and
Page B188, line 8	(5/25/88)
function $str_toks(b: pool_pointer): pointer; { changes the string str_pool[b pool_pointer)$	$pool_ptr$] to a token list }
Page B188, line 13	(5/25/88)
begin str_room(1); $p \leftarrow temp_head$; $link(p) \leftarrow null$; $k \leftarrow b$;	
Page B188, line 20	(5/25/88)
$pool_ptr \leftarrow b; str_toks \leftarrow p;$	
Page B188, new line after line 28	(5/25/88)
b: pool_pointer; { base of temporary string }	
Page B188, line 31	(5/25/88)
$\textbf{else begin old_setting} \leftarrow selector; selector \leftarrow new_string; b \leftarrow pool_ptr;$	
Page B188, line 41	(5/25/88)
$selector \leftarrow old_setting; the_toks \leftarrow str_toks(b);$	
Page B190, lines 16–18	(5/25/88)
b: pool_pointer; { base of temporary string } begin $c \leftarrow cur_chr$; (Scan the argument for command c 471); $old_setting \leftarrow selector$; $selector \leftarrow new_string$; $b \leftarrow pool_ptr$; (Print the result $selector \leftarrow old_setting$; $link(garbage) \leftarrow str_toks(b)$; $ins_list(link(temp_head))$;	of command c 472 \rangle ;
Page B210, line 36	(5/25/88)
begin if $(pool_ptr + name_length > pool_size) \lor (str_ptr = max_strings) \lor (current current current$	$r_length > 0$) then
Page B211, new line of code before the mini-index	(12/14/88)
$log_opened: boolean; { has the transcript file been opened? }$	
Page B212, line 5	(12/14/88)
ich name (0; name in progress (false; leg opened (false;	

 $job_name \leftarrow 0; name_in_progress \leftarrow false; log_opened \leftarrow false;$

ne 24 (1.	2/	1
ne 24 (1)	2	/

 $log_name \leftarrow a_make_name_string(log_file); selector \leftarrow log_only; log_opened \leftarrow true;$

Page B214, lines 2 and 3

messages or even to show_context. The prompt_file_name routine can result in a fatal_error, but the *error* routine will not be invoked because *log_opened* will be false.

The normal idea of *batch_mode* is that nothing at all should be written on the terminal. However, in the unusual case that no log file could be opened, we make an exception and allow an explanatory message to be seen.

Page B214, lines 7–11 reduce to a single line	(12/14/88)
begin selector \leftarrow term_only;	
Page B224, second-last line	(4/28/87)

done: if file_opened then b_close(tfm_file); *read_font_info* $\leftarrow g$;

Page B229, lines 6-8

than 2²⁷. If $z < 2^{23}$, the individual multiplications $b \cdot z$, $c \cdot z$, $d \cdot z$ cannot overflow; otherwise we will divide z by 2, 4, 8, or 16, to obtain a multiplier less than 2^{23} , and we can compensate for this later. If z has thereby been replaced by $z' = z/2^e$, let $\beta = 2^{4-e}$; we shall compute

Page B229, lines 11-12

if a = 0, or the same quantity minus $\alpha = 2^{4+e}z'$ if a = 255. This calculation must be done exactly, in order to guarantee portability of TFX between computers.

Page B230, lines 2-5

begin $alpha \leftarrow 16;$ while $z \geq 40000000$ do **begin** $z \leftarrow z$ **div** 2; $alpha \leftarrow alpha + alpha$; **end**; $beta \leftarrow 256$ div $alpha; alpha \leftarrow alpha * z;$

Page B245, new entry for mini-index

cur_s: integer, §616.

Page B254, line 29	

cur_s: integer; { current depth of output box nesting, initially -1 }

Page B254, line 31

[Remove the statement 'cur_s $\leftarrow -1$;' and put it on page B244 at the end of line 31.]

(11/17/87)

(11/17/87)

(11/17/87)

(8/7/87)

(8/7/87)

(8/7/87)

(12/14/88)

(4/88)

Page B259, line 13	(11/9/87)
begin $rule_wd \leftarrow rule_wd + 10$; { compensate for floating-point rounding } $edge \leftarrow cur_h + rule_wd$; $lx \leftarrow 0$; (Let cur_h be the position of the first box, and set	
Page B259, line 17	(11/9/87)
$cur_h \leftarrow edge - 10; $ goto $next_p;$	
Page B263, line 21	(11/9/87)
begin $rule_ht \leftarrow rule_ht + 10$; {compensate for floating-point rounding} $edge \leftarrow cur_v + rule_ht$; $lx \leftarrow 0$; (Let cur_v be the position of the first box, and set	
Page B263, line 25	(11/9/87)
$cur_v \leftarrow edge - 10; $ goto $next_p;$	
Page B266, line 8	(8/7/87)
$dvi_out(eop); incr(total_pages); cur_s \leftarrow -1;$	
Page B266, new code between lines 31 and 32	(8/7/87)
<pre>while cur_s > -1 do begin if cur_s > 0 then dvi_out(pop) else begin dvi_out(eop); incr(total_pages) end; decr(cur_s); end;</pre>	
Page B285, line 21	(4/28/88)
is subsidiary to the <i>nucleus</i> field of some noad; the dot is replaced by '_' or '~' or '/'	() , , ,
Page B338, second-last line	(8/19/87)
$q \leftarrow link(head); s \leftarrow head;$	
Page B339, line 4	(8/19/87)
$s \leftarrow q; q \leftarrow link(q);$	
Page B339, new code to insert after line 10	(8/19/87)
if $o \neq 0$ then begin $r \leftarrow link(q)$; $link(q) \leftarrow null$; $q \leftarrow hpack(q, natural)$;	

 $shift_amount(q) \leftarrow o; link(q) \leftarrow r; link(s) \leftarrow q;$

end;

[These new lines also imply changes to the index that aren't shown in this errata list.]

Page B387, line 2	(5/24/88)
is quite short. In the following code we set $hc[hn + 2]$ to the impossible value 1	28, in order to
Page B387, line 8	(5/24/88)
$hc[0] \leftarrow 127; hc[hn+1] \leftarrow 127; hc[hn+2] \leftarrow 128; $ {insert delimiters }	
Page B390, lines 17–18	(5/24/88)
\langle Enter as many hyphenation exceptions as are listed, until coming to a right brace; the [The same change applies to lines 20–21, and to page 582.]	en return 961 \rangle ;
Page B396, new line after line 34	(5/24/88)
$trie_link(trie_size) \leftarrow 0; trie_back(0) \leftarrow trie_size; \{wrap around \}$	
Page B396, bottom line	(12/12/87)
$trie_link(0) \leftarrow 0; trie_char(0) \leftarrow 0; trie_op(0) \leftarrow min_quarterword;$	
Page B397, lines 15–17	(5/24/88)
if $c < trie_min$ then $trie_min \leftarrow c$; if $trie_min = 0$ then $z \leftarrow trie_link(trie_size)$ else $z \leftarrow trie_link(trie_min - 1)$; {get the first conceivably good hole}	
Page B400, lines 3–4	(5/24/88)
\langle Enter all of the patterns into a linked trie, until coming to a right brace 961 $\rangle \equiv$ [The same change applies to page B399, lines 29–30, and to page 582.]	
Page B402, line 10	(5/24/88)
$r \leftarrow trie_size; \{ \text{finally, we will zero out the holes} \}$	
Page B406, line 9 from the bottom	(1/23/89)
$shrink_order(r) \leftarrow normal; delete_glue_ref(q); glue_ptr(p) \leftarrow r; q \leftarrow r;$	
Page B417, line 10	(1/23/89)
$q \leftarrow new_skip_param(top_skip_code); \{now \ temp_ptr = glue_ptr(q)\}$	
Page B418, line 14	(1/23/89)
$shrink_order(r) \leftarrow normal; delete_glue_ref(q); glue_ptr(p) \leftarrow r; q \leftarrow r;$	<u>, </u>

Page B507, line 13	(12/14/88)
if log_opened then selector \leftarrow selector $+2$;	(12/14/00)
Page B527, line 21	(12/14/88)
	(12/14/00)
if log_opened then	
Page B528, line 5	(12/14/88)
if log_opened then	
Page B547, right column	(9/20/87)
<i>co_backup</i> : <u>366</u> .	
Page B548, right column	(9/20/87)
cur_order : 366, <u>447</u> , 448, 454, 462.	
Page B548, right column	(8/7/87)
$cur_s:$ 593, <u>616</u> , 619, 629, 640, 642.	
Page B551, both columns	(12/23/87)
[Remove '372' from <i>eqtb</i> and put it into <i>eq_define</i> .]	
Page B552, left column	(4/28/88)
[Insert '358' into expand.]	
Page B554, left column	(12/23/87)
[Remove '372' from <i>frozen_relax</i> .]	
Page B559, new entry	(12/14/88)
log_opened , 92–93, <u>527</u> , 528, 534–535, 1265, 1333–1334.	
Page B559, right column	(8/13/87)
[Delete the entry for <i>low_mem_max</i> .]	
Page B562, left column	(4/28/88)
[Remove '358' from <i>no_expand</i> .]	
Page B565, left column	(8/7/87)

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 $pop: \quad 584-585, \, \underline{586}, \, 590, \, 601, \, 608, \, 642.$

Page B567, left column	(12/23/87)
[Insert '372' into relax.]	
Page B568, left column	(4/28/88)
[Move '269' from <i>save_index</i> to <i>save_level</i> .]	
Page C26, bottom line $(7/18/87)$	
What angle corresponds to the direction North-Northwest?	
Page C107, line 13 (10/7/87)	
pickup penrazor xscaled <i>heavyline</i> rotated $(angle(z_{32} - z_{31}) + 90);$	
Page C164, line 10 $(4/27/88)$	
$y_{\$c} = top \; y_{\$l}; \; \; y_{\$d} = y_{\$r}; \; \; x_{\$c} = x_{\$l} - left_jut; \; \; x_{\$d} = x_{\$r} + right_jut;$	
Page C175, line 23 (1/11/88)	
xpand into a sequence of tokens. (The language SIMULA67 demonstrated that it is	
Page C241, line 11 (5/25/88)	
numeric $ht^{\#}, dp^{\#}; ht^{\#} = body_height^{\#}; .5[ht^{\#}, -dp^{\#}] = axis^{\#};$	
Page C248, line 21 becomes two lines $(1/24/89)$	
which might not be numerically stable in the presence of rounding errors.) Another ase, not really desirable, is $left_jut = right_jut = 0$.	
Page C262, line 15 $(12/23/88)$	
tring base_name, base_version; base_name="plain"; base_version="1.7";	
Page C271, line 12 $(1/4/89)$	
he user and METAFONT's primitive picture commands. First, some important program	
Page C271, line 4 from the bottom $(12/23/88)$	
ef cutdraw expr p = % caution: you may need autorounding=0	
Page C272, lines 5 and 6 $(12/23/88)$	

Page C273, lines 20 and 22	(9/26/88)
<pre>(z_+(0,pen_top))t_=round((z+(0,pen_top))t_); z_ enddef; (z_+(0,pen_bot))t_=round((z+(0,pen_bot))t_); z_ enddef;</pre>	
Page C290, line 6 from the bottom	(12/23/88)
(2) A throwaway variable, ' <i>whatever</i> ', nullifies an unwanted equation at th	e beginning
Page C331, just below the illustration	(7/18/87)
Such a pattern is, of course, rather unlikely to occur in a \mathtt{gf} file, but <code>GFt</code>	oDVI would
Page C337, line 11	(4/28/88)
An online "menu" of the available test routines will be typed at ye	our terminal
Page C346, entry for autorounding	(12/23/88)
212, 262, 264, 271–272.	
Page C350, left column	(7/6/88)
Fatal base file error, 226.	
Page C356, left column	(1/11/88)
SIMULA67 language, 175.	
Page C358, right column	(2/15/88)
*yoffset, 212, <u>220</u> , 315, 324.	
Page D2, line 27	(12/14/88)
define $banner \equiv \text{`This}_{\sqcup}\text{METAFONT},_{\sqcup}\text{Version}_{\sqcup}1.7^{\circ}$ { printed when I	METAFONT starts $\}$
Page D36, lines 3–5	(11/6/88)
[Delete this paragraph; it is being moved to page D349.]	
Page D36, line 7	(12/14/88)
begin if <i>log_opened</i> then <i>selector</i> \leftarrow <i>term_and_log</i>	
Page D36, line 16	(12/14/88)
if log_opened then error;	
Page D66, lines 34–35	(7/9/88)

begin if $hi_mem_min - lo_mem_max \ge 1998$ then $t \leftarrow lo_mem_max + 1000$

 $\mathbf{else} \ t \leftarrow \textit{lo_mem_max} + 1 + (\textit{hi_mem_min} - \textit{lo_mem_max}) \ \mathbf{div} \ 2; \ \{ \ \textit{lo_mem_max} + 2 \leq t < \textit{hi_mem_min} \ \}$

Page D347, new line of code after line 5	(12/14/88)
<pre>log_opened: boolean; { has the transcript file been opened? }</pre>	· · · · ·
Page D347, line 11	(12/14/88)
$job_name \leftarrow 0; \ log_opened \leftarrow false;$	
Page D348, line 4 from the bottom	(12/14/88)
$log_name \leftarrow a_make_name_string(log_file); selector \leftarrow log_only; log_name \leftarrow a_make_name \leftarrow a_mak$	$oppened \leftarrow true;$
Page D349, lines 6 and 7	(12/14/88)
print error messages or even to <i>show_context</i> . The <i>prompt_file_fatal_error</i> , but the <i>error</i> routine will not be invoked because <i>log_</i> The normal idea of <i>batch_mode</i> is that nothing at all should However, in the unusual case that no log file could be opened, we an explanatory message to be seen.	<i>opened</i> will be false. be written on the terminal.
Page D349, lines 11–15 reduce to a single line	(12/14/88)
begin selector \leftarrow term_only;	
Page D420, bottom line	(5/25/88)
if $txx \mod unity = 0$ then	
Page D441, delete line 2 and change line 12 as follows	(5/25/88)
done: if $eq_type(x) \neq tag_token$ then $clear_symbol(x, false)$; if $equiv(x) = null$ then $new_root(x)$; $scan_declared_variable \leftarrow h$;	
Page D444, line 8 from the bottom	(12/14/88)
if log_opened then $selector \leftarrow selector + 2;$	
Page D510, line 14	(12/14/88)
if log_opened then	
Page D511, line 11	(12/14/88)
if log_opened then	
Page D530, new entry	(12/14/88)
las among 07 00 700 700 700 1002 1005 1000	

 $log_opened\,,\,87{-}88,\,\underline{782},\,783,\,788{-}789,\,1023,\,1205,\,1208.$

Page D545, left column	
zscaled primitive: <u>893</u> . Zabala Salelles, Ignacio Andres: 812.	
Page E32, second-last line	(9/20/87)
after which comes 'math_axis [#] ; generate mathsy	' (which we won't bother to
Page E111, line 29	(10/16/88)
<i>lft</i> x_{11} = hround u ; $x_{1l} - x_{11} = x_{2l} - x_{12} = x_{22} - x_{2r} =$	hround 1.6 <i>cap_jut</i> ;
Page E285, bottom line	(12/1/87)
Due to Te	echnical Developments (1968)
Page E333, lines 9–11	(1/9/89)
<i>lft</i> x_{1l} = hround(2.5 u 5 m fudged.stem); $x_{1l} = x_{1'l} = x_{1l}$ <i>lft</i> x_{3l} = hround(.5 w 5 m fudged.stem); $x_5 - x_3 = x_3$ if not monospace: $r :=$ hround($x_5 + x_1$) + $r - w$; fi	
Page E353, lines 38–39	(8/12/87)
else: fill $diag_end(6r, 5r, 1, 1, 5l, 6l)9[z_{5l}, z_{6l}]$ { $z_5 - z_6$ } .1[z_{5r}, z_{6r}] - cycle;	% middle stem
Page E387, line 13	(8/12/87)
pickup $tiny.nib$; $bulb(3, 4, 5)$;	% bulb
Page E413, lines 37–38	(8/12/87)
else: fill $diag_end(6r, 5r, 1, 1, 5l, 6l)9[z_{5l}, z_{6l}]$ { $z_5 - z_6$ }.1[z_{5r}, z_{6r}] cycle;	% middle stem
Page E459, line 24	(8/7/87)
[Delete the '=' sign between ' lft ' and ' x_5 '.]	
Page E471, line 5	(12/11/88)
$x_2 = good.x.5w; center_on(x_2);$	
Page E471, insert two lines below the rule at botto	m of page $(12/11/88)$
def center_on(expr x) = if not monospace: %	change width for symmetric fit

def center_on(expr x) = if not monospace: r := r + 2x - w; w := 2x; fi enddef;

% change width for symmetric fit

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Page E477, line 20	(12/11/87)
$x_4 = x_8 = good.x.5w; center_on(x_4); x_2 = w - x_6 = good.x(x_4 + x_6))$	a);
Page E483, third line of elementary division operator	(12/11/88)
$x_35dot_size = hround(.5w5dot_size); center_on(x_3);$	
Page E485, line 4	(8/7/87)
[Delete the '=' sign between ' lft ' and ' x_5 '.]	
Page E487, line 17	(8/4/88)
fill fullcircle scaled (bold $+ 3.8dw + eps$) shifted (.5[z_4, z_8]);	% dot
[Also remove page 487 from the index entry for dot_{size} , and add is bold and dw .]	it to the entries for
Page E515, lines 5 and 12	(12/11/88)
$.5[x_1, x_2] = x_3 = good.x.5w; center_on(x_3); lft x_1 = hround(.5w - x_2)$	-u*sqrt48);
Page E515, line 21	(1/23/89)
$labels(5,6); zero_width; endchar;$	
[Also put labels '5' and '6' on the upper right figure, page E514.]	
Page E521, lines 4 and 14	(12/12/88)
$x_1 = x_2 = good.x.5w; center_on(x_1); lft x_3 = hround u; x_4 = w -$	$-x_3;$
Page E537, line 6	(12/11/88)
$x_1 = x_2 = x_3 = x_4; \ x_15stem = \text{hround}(.5w5stem); \ center_4$	$on(x_1);$
Page E537, line 19	(12/11/88)
$x_1 = x_2 = x_3; \ x_15stem = \text{hround}(.5w5stem); \ center_on(x_1)$);
Page E539, line 4	(12/11/88)
$x_1 = x_4 = x_{30} = x_{33} = good.x.5w; center_on(x_1);$	
Page E539, line 21	(12/11/88)
$x_1 = x_4 = good.x.5w; center_on(x_1);$	
Page E541, line 4	(12/11/88)
$x_1 = x_5 = good.x.5w; center_on(x_1);$	

Page E541, line 17	(12/11/88)
$x_1 = x_{10} = good.x.5w; center_on(x_1);$	
Page E550, new line after line 23	(8/15/87)
for suffixes $\$ = notch_cut$, cap_notch_cut: if $\$ < 3$: $\$:= 3$; fi endfor	
[To make room for this, combine lines 38 and 39 into a single line.]	
Page E550, line 29	(7/9/88)
${\bf define_whole_vertical_blacker_pixels}(vair, bar, slab, cap_bar, cap_ba$	band);
Page E572, new entry at bottom	(12/11/88)

 $center_on,\,\underline{471},\,477,\,483,\,515,\,521,\,537{-}541.$