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Computer Assembly Operation Manual

1.0 Purpose

To outline the procedure in assembly of personal & server computer. It is a guideline to help operator work in proper way follows by quality and productivity of product.

2.0 Scope

This scope to cover assembly, testing, inspection & packaging of personal & server computer

of Computer (Thailand) Co., Ltd.

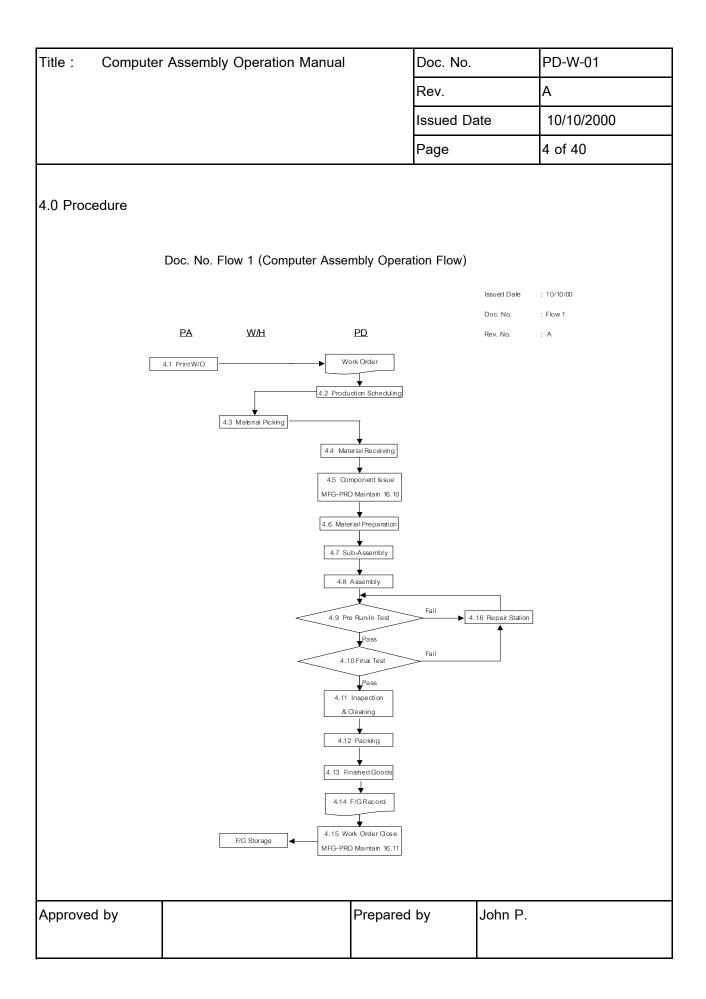
3.0 Equipment/ tools/ Materials/ Usage

- 3.1 Assembly work station table with shelf (210*90*80 cm).
- 3.2 Test work station table with shelf (210*60*80 cm).
- 3.3 QC work station table with shelf (210*90*80 cm).
- 3.4 Material table used in work station (150*60*80 cm).
- 3.5 Electrical screwdriver
- 3.6 Run-In cart (131*65*173cm).
- 3.7 Label printer (for carton & spec/ barcode s/n printing).
- 3.8 CodeSoft Software installed on PC for label printing.
- 3.9 FDD copy machine (12 targets)
- 3.10 HDD copy machine (11 targets + 1 master).
- 3.11 Semi-auto carton sealing machine
- 3.12 Standard VGA Monitor
- 3.13 Standard power cord
- 3.14 Standard keyboard

Approved by	Prepared by	John P.

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3.1	5 Metal holde	er for K/B					
3.1	6 Standard m	nouse					
3.1	7 COM1 term	inator					
3.1	8 COM2 term	inator					
3.1	9 Parallel por	t terminator					
3.2	0 Rack for bu	Ik purchasing materials					
3.2	1 Pallet						
3.2	2 Non-ESD p	lastic material box					
3.2	3 ESD tote bo	хс					
3.2	4 ESD cloth						
3.2	5 ESD table r	nat					
3.2	6 ESD wrist s	trap					
3.2	7 ESD check	er					
3.2	8 ESD Smock	Κ					
3.2	9 Cable tie						
3.3	0 Scissors						
3.3	1 Cutter knife						
3.3	2 Sealing tap	е					
3.3	3 Scotch tap	e					
3.3	4 Carton labe	9					
3.3	5 Warranty la	bel					
3.3	6 Stickers - V	/indow, Intel					
3.3	7 Acc/rej stic	kers.					
3.3	8 Warranty ca	ard					
			1				
Approve	d by		Prepared by	John F	D.		

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3.39	Assembly r	record forms						
3.40) Cleaning c	loths						
3.41	1 Cleaning D	Detergent						
3.42	2 3.5" Disket	tte						
3.43	3 Speakers							
3.44	1 Multimeter							
3.45	5 Screwdrive	er						
3.46	6 Pliers							
3.47	7 screws							
3.48	3 Marker per	ı						
Approved	d by			Prepared	hv	John P.		
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4.1 Print W/O

4.1.1 PA prints work order out at production printer names PRODPRN1 (a work order has 3 copies).

4.1.2 Assistant Production Manager to review work order and ensure the w/o correct.

Sample of work order print out

woworl.p v01.01		16.6 Work Ord	der Release/ P	rint	Date : 12/6/2000				
Page: 1		Acer Compute	er Co., Ltd.		Time :	8:42:32			
		WORK ORDEI	R PICKLIST						
Work Order : 30001698					Issue Date	:	12/4/2000		
ID : 40037804					Release Date	:	12/4/2000		
Item Number : AT.39J01.020XT		Rev :			Work Order D	Work Order Due Date:			
Power Sx C700,	64M, 20G	, 52X, 56K (As	key), W98		P-L	:			
Remarks :					Sales/Job	:	BTS		
Qty Order : 30.0					Deliver To	:			
Item Number	Site	Bin No.	Req-Qty	UM	Loc	Issued	Receiver		
 01.ICLON.70C	1000		30	PC	1220	(0)			
CPU C700 (128KB) FC-PGA									
40.00060.081	1000		30	PC	1220	(0)			
LABEL Celeron Intel (Housing)									
Approved by				Prepare	d by	John P.			

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40.000B5.001	1000	30	PC	1220	(0)		
STICKER WIN98/NT LOGO	(SMALL) FOR HOUSING	3							
40.00040.031	1000	30	PC	1220	(0)		
LABEL Celeron Intel (Carto	n)								
45.00050.001	1000	30	PC	1220	(0)		
COA LABEL FOR WIN98SE	RCD								
45.09551.052	1000	30	PC	1220	(0)		
FAX MODEM 56K (S58M) F	For Veriton & APSx								
56.02B34.121	1000	30	PC	1220	(0)		
HDD 20G ATA-100 SEAGA	TE ST320413A U5								
58.01522.E32	1000	30	PC	1220	(0)		
SLCD ACERPOWER SX									
58.02222.007	1000	30	PC	1220	(0)		
WIN98 SE OS-Locked CDK	ITw/I manual Thai								
5T.14528.001	1000	30	PC	1220	(0)		
Telephone Cord									
Approved by		j,	Prenare	d by	Joh	n F	<u> </u>		
Approved by			Prepare	d by	Joł	n F	Р.		

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5T.14528.001	1000	30	PC	1220	(0)			
Telephone Cord										
5T.14529.001	1000	60	PC	1220	(0)			
CORD FOR DESKTOP 110V										
5T.49067.001	1000	30	PC	1220	(0)			
WARRANTY CARD ACERPU	T IN ALL BOX									
5T.85227.001	1000	30	PC	1220	(0)			
CABLE 40 PIN FOR HDD										
71.63350.114	1000	30	PC	1220	(0)			
MEM 64MB PC 133 INFINEC	DNAPACER									
90.00028.632	1000	30	PC	1220	(0)			
HSINK SOCKET370/SOCKE	T7w/oTDM 3PIN FOR AF	PSx, VT								
90.35G26.001	1000	30	PC	1220	(0)			
MOUSE Logitech 2 botton/w	heel 48A Ind.pack									
91.39D37.207	1000	30	PC	1220	(0)			
CD-ROM 52 AOPEN, Acer c	olor Ind.pack CD-952E/1	ĨKU								
		T			.					
Approved by			Prepare	ару	Joł	n F	.			

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91.39J01.Z01	1000	30	PC	1220	(0)		
Power Sx S57M, H61, Sound	, VGA, LAN, SIS630E, PC133							
91.62C07.043	1000	30	PC	1220	(0)		
K/B 6511-CX43, Thai 104key	w/palmrest, Gift pack							
Approved by			Prepared	hy	Johi	n P		
			repared	Зу	0011			

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4.2 Production Schedule

4.2.1 Assistant Production Manager to review work order for priority and then schedule for production.

4.2.2 Assistant Production Manager gives work order to sub-assy staff to record work order number, quantity,

model, date, time on white board (see attached Doc. No. PD-F-01). Then give work order to warehouse staffs for picking materials.

Issue date : 10/10/00

Doc. No. PD-F-01 (Work Order Tracking and Status Update)

Item	Date	Time	W/O	Customer	Model	Qty	Mat'l Pick	Sub-Assy	Assy	Pre- Run-In	Final Test	QC Ins	Pack	F/G	Remark
1				-		7		- ,	,						
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13 14															
14															
16															
17															
18															
19															
20															
oved	by							Pr	enai	red by		Joh	n P		

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4.3 Material Picking

4.3.1 Warehouse staffs to pick materials as work order states and deliver materials to production line and put at material preparation area.

4.4 Material Receiving

4.4.1 Sub-assy staff to check materials as work order states, count quantity, inspect component item number. Make sure to have no materials damage before signing work order material receipt.
4.4.2 Sub-assy staff keeps the 2nd copy of work order for production & QC staffs reference, gives the 1st copy of work order to warehouse staff for reference and return the original work order to Assistant Production Manager for component issue (MFG-Pro Maintain 16.10).

4.5 Component Issue (MFG-Pro Maintain 16.10)

4.5.1 Assistant Production Manager to perform MFG-PRO.

4.5.2 Put the user ID & Password then enter.

4.5.3 MFG-Pro system shows the main Mann as below.

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	М	ain Menu	12/04/00			
DISTRIBU		MANUFACTURING	FINANCIAL			
1. Items/Si		13. Product Structures	25. General Ledç	-		
	ses/Taxes	14	26. Multiple Curr			
3. Invento		15	27. Accounts Re			
	al Inventory	16. Work Orders	28. Accounts Pay	yable		
5. Purchas	sing	17	29			
6		18	30			
7. Sales O	orders/Invoice	19	31			
8. Configu	ired Products	20	32			
9. Sales A	nalysis	21. New Sales Forecast	33			
10		22	34			
11		23	35			
12		24. Key Component	36. Manager Fun	ictions		
4.5.4 Put 1	16.10 (MFG-Pro Ma wowois.p h	intain for work order componen 16.10 Work Order Compon		4/00		
	Work Order:	ID: T#:	Effdate: 12/04/0	0		
Item Number:		Status:	Issue Alloc: no			
			Issue Picked: yes			
			13300 T 16100. y03			
			issue rieked. yes			

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4.5.5 Put work order number (example : 30001697) then enter.

wowois.p h	16.10 W	ork Order	Compo	onent Issu	le	12/04/00
Work Order : 3000	1697	ID: 40037	797 T	#: E	Effdate: 1	12/04/00
Item Number: AT.3	38H01.519XI	E Status	s: R	lssu	e Alloc:	no
Veriton510	0 C600,64N	1,52X		Issue	Picked:	yes
Item Number	Qty Open	Qty Alloc	Qty P	icked Qt	y to Iss	Qty B/O
58.02222.007	-2.0	0.0	0.0	0.0	-2.0	
90.35G39.441	2.0	2.0	0.0	0.0	2.0	
AT.38H01.519XT	2.0	0.0	2.0	2.0	0.0	

4.5.6 To deduct component by item number with carefulness and make sure Qty Open = Qty Issue.4.5.7 After finished the component issue (MFG- Pro Maintain 16.10). To make sure that all deducted components are corrected by re-check at 16.13.2 work order bill inquiry.

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									1	
.8 Put N	work order n	umber (exar	nple : 30001678)	then er	nter.					
	wowaiq.p '	V2.00I 1	6.13.2 Work Ord	der Bill I	nquiry			12/04/00	-	
	Work Orde	er ID	Component Ite	em		Out	put			
	30001678					t	ermin	al		
					D 01				1	
	Work Orde	r ID C	omponent Item L	LOC Qty	Req Qt	y Allo	Qty F	ick Qty Iss		
	30001678	40037512	01.COPRM.86E		20	0	0	20		
	30001678	40037512	40.00060.111		20	0	0	20		
	30001678	40037512	45.00040.061		20	0	0	20		
	30001678	40037512		1220	20	0	0	20		
	30001678	40037512	53.30K04.001	1220	20	0	0	20		
	30001678	40037512	54.09551.052	1220	20	0	0	20		
	30001678	40037512	56.02B34.121	1220	20	0	0	20		
	30001678	40037512	58.02254.005	1220	20	0	0	20		
	30001678	40037512	5T.14528.001	1220	20	0	0	20		
	30001678	40037512	5T.14529.001	1220	40	0	0	40		
	30001678	40037512	5T.49067.001	1220	20	0	0	20		
	30001678	40037512	71.63350.364	1220	20	0	0	20		

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4.6 Material Preparation operation

4.6.1 Product spec record and work order control

4.6.1.1 Sub-assy staff to check the update Eng & BIOS versions from label of Z-box carton and prepare

for serial number label printing.

4.6.1.2 Sub-assy staff to adhere warranty label on keyboard & mouse.

4.6.1.3 Sub-assy staff to write work order number, date, model, part number, quantity, run-in cart

number and material types on work order control form (see attached Doc. No. PD-F-02) and attach the

conplete form on prepared material cartons. For example Z-box carton, accessories (key board & mouse cartons), etc..

Doc. No. PD-F-02 (Work Order Control Form)

Issue date : 10/10/00 Doc. No. : PD-F-02 Rev. : A 1. Work Order No
Rev. : A 1. Work Order No 2.Date 3. Ouantity 4. Model 5. Part Number 6. Cart No.
1. Work Order No 2.Date 3. Ouantity 4. Model 5. Part Number 6. Cart No.
2.Date 3. Ouantity 4. Model 5. Part Number 6. Cart No.
3. Ouantity 4. Model 5. Part Number 6. Cart No.
4. Model 5. Part Number 6. Cart No.
5. Part Number 6. Cart No.
6. Cart No.
7. Material Type
Prepared by Date
Remark
ved by Prepared by John P.

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4.6.2 Z-Box

4.6.2.1 Unpack carton and take Z-Box to put on run-in cart . Care should be taken not to put Z-Box

too close to each other to avoid scratching.

4.6.2.2 Replace the plastic bag and system end cap into the system box.

4.6.2.3 Remove all the accessories from the system box and prepare them ready for packing.

4.7 Sub assembly

4.7.1 Label Preparation

4.7.1.1 Turn on the printer and align printer label.

4.7.1.2 Open a file related to the product name & p/n as w/o states.

4.7.1.3 Check the file of the said part number against the work order.

4.7.1.4 Record details (Product name, Product number, Spec., Eng version, BIOS version

Serial number, Work order number, date in S/N label printing control form (see attached Doc. No. PD-F-03).

4.7.1.5 Fill up the necessary information (Product name, Product number, Spec., Eng version, BIOS

version, Serial no., w/o no., Warranty , Mfg. date) and assign an unused sequential serial number.

Then process printing product serial number label. After finished printing, to check and

ensure there is no errors, duplicate and complete details then save the latest file.

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:	Con	nputer A	Assemt	oly Operatio	on Manual		Doc. No.		PD	-W-()1
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Doc.				Serial Numbe	r Label Printing (Control	Form)			Issued o Doc. No. Rev.	date : 10/10/0 . : PD-F-0. : A
ltem	Date	W/O	Product Name	Product Number	Specification	Eng. Version	BIOS Version	S/N Numb	ber	Qty	Checked by/ Date
1											
2											
3											
4											
5											
6											
7											
8								-			
9 10											
11						_					
12						-					
13											
14											
15											
16											
17											
18											
19											
20	1		1			1	1				

4.7.2 Warranty label sticking

4.7.2.1 Pick all components as required per work order. Re-check correctness of components.

4.7.2.2 Mark by ticking on the warranty label the year and month when the said component is

being used for assembly.

4.7.2.3 Adhere warranty label to prepared CD-ROM, HDD, CPU with converter (slot form factor), Memory,

Add on Card and make sure warranty labels do not cause short circuit of components.

4.7.2.4 Prepare warranty label for assembly operation to adhere on components inside Z-box such as

PS, M/B, FDD, CPU without converter (socket form factor).

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4.7.3 FDD duplication

4.7.3.1 Use the 3.5" master diskette of PQAF software as the Doc. No. PD-F-04 (Master PQAF Creation Control List) to be copier and insert it into drive #1 of FDD copy machine.

Doc. No. PD-F-04 Master PQAF Creation Control List

Issue date	: 10/10/00
Doc. No.	: PD-F-04
Rev.	: A

Doc. No. PD-F-04 Master PQAF Creation Control List

Item	Date	Model	Software load/ Version	Virus check	Created by	Remark
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

Title	: (Comp	uter	[.] Asse	mbly Op	peration	Manual		Doc. No.	1	PD-W-0	1
									Rev.	/	4	
									Issued Da	ate	10/10/20	000
									Page		18 of 40	
4.7.3.	2 Inser	rt 3.5"	disk	tettes w	/hich requ	uire to be	e copied ir	nto drive #2-	-12 of FDD	copy machin	e.	
4.7.3.	3 Then	n proce	ess o	copying	g. After co	omplete o	copying to	take disket	tes out fron	n drives.		
4.7.3.	4 Reco	ord fail	ed c	opying	, diskette	into form	n of Doc. N	lo. PD-F-05	(PQAF Dis	skette Copyin	g Failure	Record).
4.7.3.	5 Disca	ard fa	iled	copyin	g or dam	aged dis	kettes.					
	[Doc. N	o. P	D-F-05	PQAF D)iskette C	Copying Fa	ailure Recor	ď		lssue date Doc. No.	: 10/10/00 : PD-F-05
											Rev.	: A
Item		F-05 PQA W/O no.	Qty	Kette Copy Model	ing Failure Re Item no.	Disk s/n	Disk Item no.	Description	sympto	om Target No	. Copied by	Remark
1												
3												
5												
6												
8												
9 10									-			
11												
12 13												
14 15												
16												
17 18												
19												
20												
Appro	oved I	by						Prepared	by	John P.		

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4.7.4 HDD duplication

4.7.4.1 Master HDD Creation

- 4.7.4.1.1 Assemble a master set of computer as work order specifications state.
- 4.7.4.1.2 Connect power cord, mouse, keyboard and monitor to computer.
- 4.7.4.1.3 Use the original master HDD connects to IDE2 of M/B.
- 4.7.4.1.4 Insert 3.5" diskette with Ghost software into A drive.
- 4.7.4.1.5 Turn on power and check BIOS version versus work order states. If BIOS does not match, to do afflash by using aflash software with 3.5" diskette insert into drive A. After finished Aflash then to setup BIOS again and update date, month, year after that save it.
- 4.7.4.1.6 Machine is automatically started and go to DOS (drive A) then run program Ghost.
- 4.7.4.1.7 Go to Local ---> Disk ---> From Image ---> File Name Local Image From
- 4.7.4.1.7.1 A : Local Drive
- 4.7.4.1.7.2 C : Local Drive
- 4.7.4.1.7.3 D : Local Drive
- 4.7.4.1.8 Select Local Drive C or D if has drive D.
- 4.7.4.1.9 Select file from current master HDD list to conform as work order item number states, to select 1 then click OK.

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4.7.4.1.10	Select requ	ired drive to be copied then click	OK.			
4.7.4.1.11	Process wit	h disk load, select yes answer the	n enter.			
4.7.4.1.12	When finish	ed HDD creation to turn off power	then take o	ff original m	naster HDD	
	and Ghost	3.5" disk.				
4.7.4.1.13	If work orde	er states to have CD-ROM, Connec	t IDE2 to C	D-ROM.		
4.7.4.1.14	Turn on pov	wer and go to Windows to detect r	iew hardwa	re.		
4.7.4.1.15	If the new h	ardware is detected, to load drive	r for new ha	ardware whi	ch can sear	ch from
	C:\ Acer\ D	river or D:\ driver of SLCD. Notify t	D TSD & PM	l if the drive	r is not avai	lable.
4.7.4.1.16	When finish	ed driver installation to check at \(Ghost Panal	\System\D	evice Mana	iger
	to make su	re that new hardware is completely	/ installed th	ne driver.		
4.7.4.1.17	If new hard	ware is not completely installed th	e driver. It w	vill present o	question ma	ark (?).
4.7.4.1.18	To install dr	iver with hardware with question n	nark (?). Go	to remove t	then refresh	l.
4.7.4.1.19	Windows to	detect new hardware again. To c	omplete driv	ver installati	on by	
	repeating it	em 4.7.4.1.15 again.				
4.7.4.1.20	When comp	plete driver installation to use start	menu to sh	utdown con	nputer.	
	Avoid to sh	utdown at OEM Reset Reminder b	y answer N	Ο.		
4.7.4.1.21	All master H	HDD after creation must adhere wi	th the name	of master a	and the date	e of creation,
	see the atta	ached Doc. No. PD-F-06 (Master H	DD Creatio	n Tracking I	⁼ orm).	
4.7.4.1.22	All master H	HDD created must be written on th	e control lis	ts with all th	e software t	that were loaded.
	see the atta	ached Doc. No. PD-F-07 (Master H	DD Creatio	n Control Li	st).	
4.7.4.1.23	Give the ne	w created master HDD to sub-ass	y staff for H	DD copying] .	
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Doc. No. PD-F-06 Master HDD Creation Tracking Form

Doc. No. PD-F-06	Issue date	: 10/10/00
Master HDD Creation Tracking Form	Doc. No.	: PD-F-06
	Rev.	: A
Work order :		
Quantity		
Model :		
Item number :		
Software load :		
Created by :		
Date :		

Approved by	Prepared by	John P.

Comp	outer /	Assembly	Ope	ration I	Manual	Do	oc. No	D.	PD-W-)1
						Re	ev.		A	
						lss	sued	Date	10/10/2	2000
						Pa	ige		22 of 4	0
							·J-			-
Doc. I	No. PD	0-F-07 Mast	er Hl	DD Crea	tion Control	List				
								sue date		
									PD-F-07	
							R	ev.	: A	
Doc.	No. PD	-F-07 Master	HDD	Creation	Control List					
Item	Date	Work order	Qty	Model	Item number	Software lo	ad	Created by	Remark	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12 13										
13										
14										
16										
17										
18										
19										
20										

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.7.4.2 HE .7.4.2.1 .7.4.2.2 .7.4.2.3 .7.4.2.4 .7.4.2.5 .7.4.2.6								F	Rev.		/			
		DD Copy Refer to respective HDD copy machine for procedure Check and ensure all cables are connected.							ssued [Date		10/10/2	2000	
								F	age		4	23 of 4	0	
4.7.4.2 H[DD Co	ру												
4.7.4.2.1	Refe	r to re	spe	ctive H	IDD cop	y machir	ne for proc	cedure Mac	hine.					
4.7.4.2.2	Chec	k and	len	sure al	ll cables	are con	nected.							
4.7.4.2.3	Remo	ove H	DD	from it	s respec	ctive box	and pack	aging. Holc	the HD	D is pr	oper ma	anner		
	witho	out tou	chir	ng the	circuit b	oard.								
4.7.4.2.4	Place	e the r	nas	ter cre	ated HD	D (copie	er) on the t	arget positi	on #1 ar	nd eac	h HDD \	which		
	requi	red tc) be	copie	d on the	target p	osition #2·	-12 of the H	DD mac	hine th	ien proc	ess.		
47425	Take	the c	orro) from th	e cabinet.	Refer to co	nfigurati	on on i	the Worl	k Order	in	
T.T.T.Z.U			one	ct mas	ster HDL									
1.1.4.2.0	choo				master.									
	Reco	sing ti	he c	correct	: master. HDD into	HDD co		ure record (: d	see attac	ched E)oc. No.	lssue date	: 10/10/00	
4.7.4.2.6	Reco Doc.	sing ti ord fail No. P	he c led d PD-F	correct copy F -08 H	t master. IDD into DD Copy	HDD co	pying failu		see attac	ched [oc. No.			
4.7.4.2.6 	Recc Doc.	sing ti ord fail No. P	he c led d PD-F	correct copy F -08 H	t master. IDD into DD Copy	HDD co	pying failu		see attac)OC. NO. Target No.	lssue date Doc. No.	: 10/10/00 : PD-F-07	
4.7.4.2.6	Recc Doc.	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Recc Doc.	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Recc Doc.	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Recc Doc.	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Recc Doc.	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Recc Doc.	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Reco	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Reco	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Reco	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Reco	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6 Doc Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 17	Reco	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	
4.7.4.2.6	Reco	sing tl ord fail No. P	he c led (PD-F	correct copy H -08 H	T master. HDD into DD Copy	HDD co	opying failu ure Recor	d				lssue date Doc. No. Rev.	: 10/10/00 : PD-F-07 : A	

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4.7.5 Work order control preparation

4.7.5.1 Sub-assy staff to write work order number, date, model, item number, quantity, run-in cart number and material types on work order control form (see attached Doc. No. PD-F-02) and attach on the prepared components such as HDD, CPU, memory, add on cards, CD-ROM etc.

4.8 Assembly operation

4.8.1 Prepare materials which provided by material preparation and sub-assy.

4.8.2 Unscrew and open the casing.

4.8.3 Adhere Product Spec label and Serial Number label at rear of machine.

4.8.4 Install the CD-ROM drive and tighten the screws, ensure the cables are properly connected. Tie

the cables nicely with cable tie and cut the excess of cable tie using scissors.

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4.8.5 Remove FDD cable and take off FDD drive, adhere v	warranty label & s/n or	FDD drive. Also
adhere s/n label on HDD, CD-ROM, PS, M/B and warranty	label on PS, M/B, the	n re-install FDD drive back to
frame, install HDD to frame and tighten the screws both si	des. To ensure releva	nt HDD cables are
properly connected. Tie the cables nicely to wire cable tie	. Cut the excess of ca	ble tie using scissors.
4.8.6 Install the CPU and attach heatsink on CPU then ad	nere warranty label on	CPU heatsink. Ensure
all wires are properly connected and not touching the fans	s of the heatsink.	
4.8.7 Install the memory. Ensure memory are properly inst	alled. Installer should	be able to hear the
"clicking" sound if memory is proper sit into its slot.		
4.8.8 Unscrew and remove the bracket of each relevant s	ot for add on card.	
4.8.9 Install the add on cards and tighten the screw.		
4.8.10 Install other components such as Lan Card etc as i	required. Ensure all sc	rews are properly
secured, all cables and wires are properly connected and	I nicely tied by cable ti	e and nicely trimmed.
4.8.11Close the casing and tighten the respective screws		
4.8.12 Put the rest labels on top of case and stick by clear	plastic tape.	
4.8.13 Insert the prepared PQAF diskette into FDD drive the	nen perform pre run-in	test.
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4.9 Pre run-in test ope	eration			
4.9.1 Connect the pov	ver cord, monitor cable and K/B cord	to computer then tu	rn on powe	r.
4.9.2 To test compute	er hardware basically for system boar	d, memory, K/B, Vid	eo, HDD, co	o processor,
cache, PnP BIOS.				
4.9.3 The pre run-in pl	hase is as followings			
	Doc. No. Flow 2 (Pre run-in test flow	N)		
		Issue date : 10/1 Doc. No. : Flow		
	Doc. No. Flow 2 (Pre run-in test flow)	Doc. No. : Flow Rev. : A	2	
	the property of the property o		. PD-F-09) a	and send to repair station.
Approved by	P	repared by	John P.	

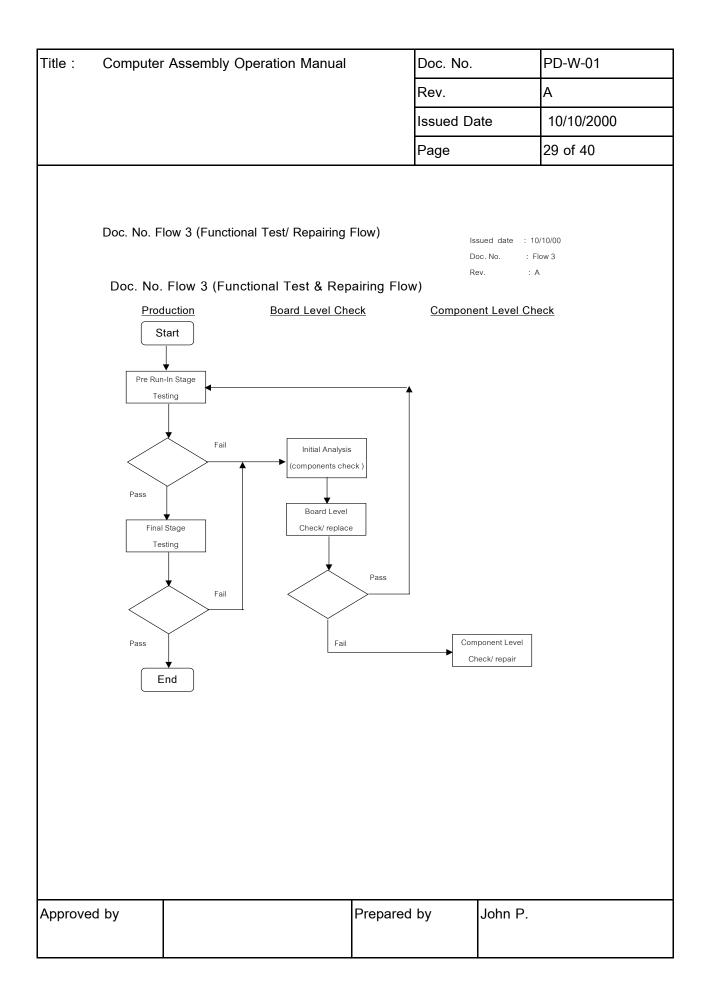
tle : Computer Assembly Operation Manual								Doc. No.		PD-V	V-01	
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					Run-In Failur	e Report					10/10/00 : PD-F-09 : A	
Doc. I Item	No. PD-F Date	-09 Pre Ru W/O	un-In F	ailure Repor Model	t Part number	Symptom/	Description	Problem solv	ving C	hecked by	Remark	
1	Date	**/0	any	moud		Symptom/	2 coorpion					
2												
3												
5												
6												
7												
9												
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11 12												
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19 20												
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4.10 Fina	al test operation			
4.10.1	Move computer from run-in cart and place it on work	station.		
4.10.2	Use K/B & mouse to conform its model.			
4.10.3	Connect the power cord, monitor cable, K/B & mous	e cords to computer th	en turn on power.	
4.10.4	Check/ update BIOS to conform as spec states.			
4.10.5	Connect loop back to test serial port & parallel port.			
4.10.6	Computer system check by PQAF (Product Quality A	Assurance Program for	Factory) to ease	
	troubleshooting of PC system.			
4.10.7	Proceed to do the DMI registration with system seria	l number.		
4.10.8	Turn off computer power and remove PQAF diskette			
4.10.9	Turn on computer and check windows operating, CI	D-ROM sound, check n	oise and	
	abnormalities.			
4.10.10	Record final test result in final test test status record	(see attached Doc. No	. PD-F-10).	
4.10.11	If computer failed test, record failure mode/ symptor	n & description in the fi	nal test failure report	

(see attached Doc. No. PD-F-11) and adhere test failed sticker at the top of computer then send to repair station.

- 4.10.12 Computer passed test is identified by test passed sticker at the rear of computer.
- 4.10.13 Turn off computer power, remove power cord, monitor cable, K/B & mouse cords.
- 4.10.14 Put on run-in cart and move to cleaning & inspection operation.

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) E 10 (Ein		ot Statu	Decord)			leeve dete	. 10/10/00	
	DOC. N	10. PL)-F-10 (Fina	ате	si Siaiu	s Record)			lssue date Doc. No.	: T0/T0/00 : PD-F-10	
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	Doc	. No.	PD-F-10 (F	inal ⁻	Fest Sta	tus Record)				
	Item	Date	Work order	Qty	Model	Item number		status	Tested by	Remark	
	1						Pass	Fail			
	2										
	3								_		
	4										_
	6										
	7										
	8										
	10										-
	11										
	12										
	13 14										_
	15										
	16										
	17 18										
	19										_
	20										
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				Final Test	Failure Re	eport)		lssue Doc. Rev.		10/10/00 : PD-F-11 : A
	lo. PD-F-1 Date W/C		-	lure Report) Part number	Serial No.	Symptom/ Description	Problem s	solving Ch	ecked by	Remark
1		,							-,	
2										
4										
6										
7		_								
9										
10		_								
12										
13 14										
15										
16 17		_								
18										
19 20		_								
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	Comp	uter A	Asse	embly	Operat	tion Ma	inual	Doc. No.	P	D-W-01	
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4.11 Clean	ning & ir	nspect	ion c	operati	ion						
1.11.1 Mov	/e comp	outer fr	rom i	run-in	cart and	put on	cleaning table.				
4.11.2 Wip	e and c	lean c	asin	g with	cleaning	g agent	and soft cloth.				
4.11.3 Adh	nere win	dows	licen	ise (C	OA) labe	el & warr	anty label on left	side of m/c as sp	oec states		
4.11.4 Insp	pect to e	ensure	that	label	s & sticke	ers are a	adhered on corre	ct location withou	ıt missing	&	
damage, ir	nspect a	at front	t par	nel for	namepla	ate and a	at the rear of m/c	for test passed s	ticker and	l make	
sure that no											
4.11.5 Rec	ord reje	ected o	comp	outer i	n cleanir	ng & ins	pection abnorma	lity report (see a	ttached D	oc. No. PD-F	-12)
							uter then send to				
								passed inspectio	n and mo	ve to	
packing op						I					
	· - · - · - · ·	-									
				0/01							
	Doc. N	lo. PD	-F-12	2(Clea	aning & I	nspectic	on Abnormality Re	eport)	Doc. No.	: 10/10/00 : PD-F-12	
					aning & I			eport)			
	oc. No. PE							eport) Problem solving	Doc. No.	: PD-F-12]
Do Itel 1 2	oc. No. PE	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Dc Hei	oc. No. PE	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Dc Iter 1 2 3 4 5	oc. No. PE	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do Iter 1 2 3 4	oc. No. PE	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Dec Iter 1 2 3 4 4 5 6 6 7 7 8	oc. No. PE m Date 1 2 3 4 4 5 5 7 7 3	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Dc Iter 1 2 3 4 4 5 6 6 7	oc. No. PE Im Date Date Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do Iter 1 2 3 4 5 6 6 7 7 8 8 9	Date 1 2 3 4 5 7 8 9 0	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do liter 1 2 3 4 5 6 7 8 9 10 11 12 12 13 14 15 16 16 16 16 16 16 16 16 16 16	m Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do Her 1 2 3 4 5 6 7 7 8 9 10 11 11 11 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Import Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Dc Iter 1 2 3 3 4 5 6 6 7 7 8 9 9 1(1 11 11 11 11 11 11 11 11 11 11 11 11	Import Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Dec Iter 1 1 2 3 3 4 4 5 6 6 7 7 8 9 9 10 11 11 12 13 14 15 16	No. PE Date 1 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 5 6	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do lter 1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15 14 15 16 16 16 16 16 16 16 16 16 16	No. PE Date 1 2 3 4 5 6 0 1 2 3 4 5 6 6 7	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do lter 1 2 3 4 5 6 7 7 8 9 9 10 11 12 14 15 14 15 14 15 16 17 16 17 17 18 18 18 18 18 18 18 18 18 18	No. PC m Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do lter 1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 16 17 17 18 16 16 16 16 16 16 16 16 16 16	No. PC m Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do lter 1 2 3 4 5 6 7 7 8 9 9 10 11 12 14 15 14 15 14 15 16 17 18 19 10 11 11 12 10 10 10 10 10 10 10 10 10 10	No. PC m Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)		Doc. No. Rev.	: PD-F-12 : A	
Do Ited 1 1 1 2 3 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18 9 10 11 12 11 12 12 13 14 15 16 16 17 16 16 16 16 16 16 16 16 16 16	No. PE im Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Abnormality/ Defect Found Abnormality/ Defect Found Image: Constraint of the stress o	Problem solving	Doc. No. Rev. Checked by 	: PD-F-12 : A	
Do lter 1 2 3 4 5 6 7 7 8 9 9 10 11 12 14 15 14 15 14 15 16 17 16 17 17 18 18 18 18 18 18 18 18 18 18	No. PE im Date 1	D-F-12 ((Cleani	ng & Ins	spection Ab	normality F	Report)	Problem solving	Doc. No. Rev.	: PD-F-12 : A	

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4.12 Packing operation

- 4.12.1 Before packing, to prepare cartons of computer, accessories and re-check for quantity of accessories.
- 4.12.2 Put the computer into the plastic bag. Fold the bag nicely and tape it with scotch tape.
- 4.12.3 Insert the end cap to the computer and put the computer into the system box.
- 4.12.4 Put accessories such as keyboard, power cord, mouse, warranty card, and a set plastic bag of " telephone cord, mouse pad , manual, windows manual and SLCD " into the system box as work order states.
- 4.12.5 Seal the carton using auto taping machine.
- 4.12.6 Adhere Product Serial Number label on both sides of carton and also stick the CPU label such as Pentium III/Celeron label on carton refers to CPU type states in work order.

4.13 Finished goods

4.13.1 When completed packing to take finished goods to put on pallet then deliver finished goods to put at finished goods area.

4.14 Finished goods record

4.14.1 When completed w/o, QC staff to record details such as work order number, part number, product description, work order quantity, done quantity, complete date & checked by into finished goods report (see attached Doc. No. PD-F-13).
4.14.2 Bring the finished goods report to request for signature from production, warehouse and logistics for their acknowledgement.
4.14.3 After complete signature on finished goods report then give original copy to warehouse staff, duplicate copy to logistics staff and triplicate to production staff.

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Doc. 1	No. PD-F-'	13 (Finished G	oods Report)	Fin	ished Go	oods Repor	t No		
W/	0	Part	Product Description		//O Qty	Done Qty	Comple		Checked By
Num	ber	Number							
lssued	by :		Received by :	Maint	ained by	· :		. Date :	
		uction	Warehouse				Logistic		
	(Tripl	icate)	(Original)				(Duplica	te)	
Approved b	у			Prepareo	d by	Jo	hn P.		

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4.15 Work order close (MFG-Pro Maintain 16.11)

4.15.1 Assistant Production Manager to perform MFG-PRO.

4.15.2 Put the user ID & Password then enter.

4.15.3 MFG-Pro system shows the main Mann as below.

	Main Menu	12/04/00
DISTRIBUTION	MANUFACTURING	FINANCIAL
1. Items/Sites	13. Product Structur	es 25. General Ledger
2. Addresses/Taxes	14	26. Multiple Currency
3. Inventory Control	15	27. Accounts Receivable
4. Physical Inventory	16. Work Orders	28. Accounts Payable
5. Purchasing	17	29
6	18	30
7. Sales Orders/Invoice	19	31
8. Configured Products	20	32
9. Sales Analysis	21. New Sales Forec	ast 33
10	22	34
11	23	35
12	24. Key Component	36. Manager Functions
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4 Put	: 16.11 (MFG-Pro Ma	intain for work order close) then er	iter.	
	woworc.p g	16.11 Work Order Receipt	12/15/00	
	Work Order:	ID: Status:		
	Remarks:			
	Item Number:	L/S: UM:		
	Description:	Auto Lot Numbers:		
	Open Qty:			
	Quantity:	Site:		
	UM:	Location:		
	Conversion:	Lot/Serial:		
	Reject Qty:	Ref:		
	UM:	Multi Entry:		
	Conversion:	Total Units:		
	Ticket#:			
	Effective:			
	Close:			

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15.5 Put	work order number (exam	ple : 30001758) then enter		
		1 Work Order Receipt		(15/00
	Work Order: 30001758		itatus: R	
	Remarks: FOR FULFIL			
		020LE L/S:		
		700,64M,20G, Auto Lo	it numbers: no	
	Open Qty: 32.0			
	Quantity: 0.0	Site: 1000		
	UM: PC	Location: 1120		
	Conversion: 1.0000	Lot/Serial:		
	Reject Qty: 0.0	Ref:		
	UM: PC	Multi Entry: no		
	Conversion: 1.0000	Total Units:		
	Ticket#:			
	Effective:			
	Close:			

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4.15.8 Afte	r finished the work orde	er close (MFG- Pro Maintain 16	.11). To make sure th	nat the work order		
is complete	ely closed by checking	at 16.1 work order maintenand	e.			
			10/15	100		
		16.1 Work Order Maintenance	12/15	/00		
	Work Order: Item Number:	ID:				
	Туре:					
	Site:					
	One.					
	Qty Ordered:	Order Date:				
	Qty Completed:	Release Date:				
	Qty Reject:	Due Date:				
	Status:	Site:				
	Sales/Job:	Routing Code:				
	Supplier:	Bill of Material:				
	Yield:	bill of Watorial.				
	Remarks:					
	Comments:	Post variances at SFC	:			

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4.15.9 Put	t work order	number (example :	: 30001713) the	n enter.				
	wowomt.p	i 16.1 Wo	ork Order Mainte	enance		12/15/00	7	
	We	ork Order: <mark>3000171</mark>	3 ID: 40	038119				
	lter	m Number: AT.39J(01.021LE Po	wer Sx PIII8	00,64M,200	3		
		Туре:	52X,56K(Aske	y)				
		Site: 1000						
		/ Ordered: 20.0	Order Date					
		Completed: 20.0		ate: 12/07/0	0			
	Qt	y Reject: 0.0	Due Date: 1	2/10/00				
		Status: C	Site: 1000					
		ales/Job: BTS	Routing Cod	e:				
	S	Supplier: Bill	of Material:					
		Yield: 100.00%						
	F	Remarks:						
		Comments: yes	Post vari	ances at SI	-C: yes			
							-	
4.15.10 To	o check and	make sure that qua	antity ordered =	quantity co	ompleted ar	nd Status :	C (closed).	
4.15.11 A	sk warehous	e staff to deliver fin	ished goods to	store in wa	rehouse.			
Approve	d by			Prepared	by	John P.		

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4.16 Rep	pair Station													
4.16.1	When re	ceive f	ailec	d com	puter f	rom pro	e run-	in or	final tes [.]	t opera	tion. reco	ord the	failure	
	mode with details such as date, w/o, qty, model, p/n in the form of production mini-repair												nini-repair	
	station re	eport (s	see a	attach	ed Do	c. No. I	PD-F-	14).						
4.16.2	Diagnos	es at b	oarc	d/ com	iponer	nt level	is pei	form	ed first, :	swappi	ng is dor	ne to tro	oubleshoot	
	the problem. The failed component will be claimed to vendor via repair center department.													
4.16.3	lf compu	If computer can not be troubleshot the problem as board/ component level, it will be sent											ill be sent	
	to repair center department for further failure analysis.													
4.16.4	After cor	mputer	is al	Iready	troub	leshot t	the pr	obler	n, recore	d cause	e/sympto	m and	problem	
	solving into the form of production mini-repair station report (see attached Doc. No. PD-F-14).													
4.16.5	Send computer back to re-start testing again since pre run-in, through final test													
	respecti	respectively.												
	Doc. No	. PD-F	-14 ((Produ	iction	Mini- R	epair	Stati	on Repo	ort)	Issued c	late: 10/10/00		
											Doc. No. Rev.	: PDF-14 : A		
			-	ionNhiRepair Qy Nuti		Seidrunke	s npto m	Case	Talkshuting	CorporetP/V	ComposetS/4 Check	by Renark]	
		2											-	
		3											-	
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Approve	ed bv							Pr	epared	bv	Joh	n P.		
Approve	ed by							Pr	epared	by	Joh	ın P.		