

## MODIFICATION BULLETIN NO. Barbara-001

ISSUED ON 16th November, 1992

<b>Model</b>	<b>Barbara 1,2, and 3</b>	<b>Date of Modification</b>
<b>Modified Article</b>	ROM (PCB - FCE)	<b>Execution Date</b>
<b>Reason for Modification</b>	<input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards ( ) <input type="checkbox"/> To facilitate assembly <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input type="checkbox"/> To improve reliability <input type="checkbox"/> Other  Refer to the RTB No. Barbara -007 for a detailed explanation.	Refer to the RTB No. Barbara-007.

Old Part No.	New Part No.	Description	Q'ty Used Old - New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0927106	H0927106C	PROM: Barbara 1	1 - 1	X/O		--	--
H0947106	H0947106E	PROM: Barbara 2/3	1 -1	X/O		--	--

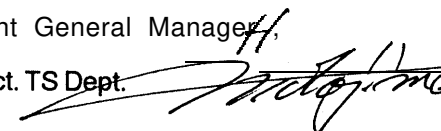
Reference No. for this MB

QECR	
ECN No.	

H. Motojima

Assistant General Manager

FTS Sect. TS Dept.



**MODIFICATION BULLETIN NO. Barbara-002**

ISSUED ON 26th, December, 1992

<b>Model</b>	<b>Barbara 1, 2, and 3</b>					<b>Date of Modification</b>	
<b>Modified Article</b>	ROM(PCB - FCE)					<b>Execution Date</b>	
<b>Reason for Modification</b>	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Parts catalog correction  <input type="checkbox"/> Vender change </div> <div> <input type="checkbox"/> To meet standards (    )  <input type="checkbox"/> Part standardization </div> <div> <input type="checkbox"/> To facilitate assembly  <input type="checkbox"/> To improve reliability  <input checked="" type="checkbox"/> Other </div> </div> <p>Refer to the RTB No. Barbara - 008 for a detailed explanation.</p>					Refer to the RTB No. Barbara-008.	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0927106C	H0927106F	PROM: Barbara 1	1 → 1	X / O		--	--
H0947106E	H0947106H	PROM: Barbara 2/3	1 → 1	X / O		--	--

Reference No. for this MB

QECR	
ECN No.	

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FTS Sect. TS Dept.

**MODIFICATION BULLETIN NO. Barbara-003**

ISSUED ON 20th September, 1993

Model		Barbara 1, 2 and 3					Date of Modification	
Modified Article		Programmed ROMs					Execution Date	
Reason for Modification		<div><div><input type="checkbox"/> Parts catalog correction</div><div><input type="checkbox"/> Vender change</div></div> <div><div><input type="checkbox"/> To meet standards ( )</div><div><input type="checkbox"/> Part standardization</div></div> <div><div><input type="checkbox"/> To facilitate assembly</div><div><input checked="" type="checkbox"/> To improve reliability</div><div><input type="checkbox"/> Other</div></div> <div>The software has been modified as follows;</div> <div><div>1. When the other end hangs up without DCN signal, the machine always sends DCN before disconnecting the line.</div><div>2. The following CNG detection parameters for TAM mode are changed; Cadence - ON for 360 - 840 ms; OFF for 2400 - 3420 ms CNG detection time to be variable Line monitoring time to be variable</div></div>					After the old parts have become out of stock.	
Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange-ability	Remarks	Parts Catalog		
						Index No.	Page	
H0927106F	H0927106G	Programmed ROM - Barbara 1	1 -> 1	X/O		--	--	
H0947106H	H0947106J	Programmed ROM - Barbara 2/3	1 -> 1	X/O		--	--	
<div>H.Motojima</div> <div>Assistant General Manager</div> <div>FTS Sect. TS Dept.</div>								

**MODIFICATION BULLETIN NO. Barbara-004**ISSUED ON 20th September, 1993

<b>Model</b>	<b>Barbara 1</b>					<b>Date of Modification</b>	
<b>Modified Article</b>	Programmed ROM					<b>Execution Date</b>	
<b>Reason for Modification</b>	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Parts catalog correction  <input type="checkbox"/> Vender change </div> <div> <input checked="" type="checkbox"/> To meet standards ( )  <input type="checkbox"/> Part standardization </div> <div> <input type="checkbox"/> To facilitate assembly  <input type="checkbox"/> To improve reliability  <input type="checkbox"/> Other </div> </div> <p>The software has been modified to meet the Portuguese PTT requirements.  In the AUTO mode, the time between loop closure and the start of voice message or ring-back tone is 2.5 s in Portugal. (The setting for other countries is 4.5 s.)</p>					From the first of Portugal version production.	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0927106G	H0927106H	Programmed ROM - Barbara 1	1 -> 1	X/O		--	--

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FTS Sect. TS Dept.

**MODIFICATION BULLETIN NO. Barbara-005**

ISSUED ON 20th September, 1993

<b>Model</b>		<b>Barbara 2 and 3</b>				Date of Modification	
<b>Modified Article</b>		Programmed ROM				<b>Execution Date</b>	
<b>Reason for Modification</b>		<input type="checkbox"/> Parts catalog correction <input checked="" type="checkbox"/> To meet standards (      ) <input type="checkbox"/> To facilitate assembly <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input checked="" type="checkbox"/> To improve reliability <input type="checkbox"/> Other				From the start of April, 1993 production.	
		The software has been modified as follows; 1. MMR coded data reception failure is countermeasured. 2. The time between loop closure and the start of voice message or ring-back tone is 2.5 s in Portugal. (PTT requirement).					
Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange-ability	Remarks	Parts Catalog	
						Index No.	Page
H0947106J	H0947106K	Programmed ROM - Barbara 2/3	1 -> 1	X/O		--	--
<div style="text-align: right;">           H.Motojima            Assistant General Manager            FTS Sect. TS Dept.         </div>							

**MODIFICATION BULLETIN NO. Barbara-006**ISSUED ON 20th September, 1993

<b>Model</b>	<b>Barbara 1, 2 and 3</b>						<b>Date of Modification</b>	
<b>Modified Article</b>	Programmed ROMs						<b>Execution Date</b>	
<b>Reason for Modification</b>	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Parts catalog correction  <input type="checkbox"/> Vender change </div> <div> <input checked="" type="checkbox"/> To meet standards ( )  <input type="checkbox"/> Part standardization </div> <div> <input type="checkbox"/> To facilitate assembly  <input checked="" type="checkbox"/> To improve reliability  <input type="checkbox"/> Other </div> </div> <p>The software has been modified as follows (# 4 and # 5 are only for Barbara 2/3);</p> <ol style="list-style-type: none"> <li>1. An error code is stored when the document length exceeds maximum scanning length (600 mm).</li> <li>2. Paper end sensor scanning timeing is changed to prevent mis-detection when the user closes the printer cover quickly.</li> <li>3. Machine always checks the setting of service switch before entering service mode (Turkish PTT requirement).</li> <li>4. Occasionally, if all the transmission results of one broadcasting operation were not OK, the number of broadcastable terminals might be decreased. However, this is countermeasured.</li> <li>5. If the power was reset or printer cover was opened while paper was jamming in the printer, the machine could not detect paper jam and returned to standby mode with previous software. However, this is countermeasured as well.</li> </ol>						After the old parts have become out of stock.	
<b>Old Part No.</b>	<b>New Part No.</b>	<b>Description</b>	<b>Q'ty Used Old → New</b>	<b>Interchange- ability</b>	<b>Remarks</b>	Parts Catalog		
						<b>Index No.</b>	<b>Page</b>	
H0927106H	H0927106J	Programmed ROM - Barbara 1	1 -> 1	X/O		--	--	
H0947106K	H0947106L	Programmed ROM - Barbara 2/3	1 -> 1	X/O		--	--	
H.Motojima Assistant General Manager FTS Sect. TS Dept.								

**MODIFICATION BULLETIN NO. Barbara-007**

ISSUED ON 20th September, 1993

<b>Model</b>		<b>Barbara 2 and 3</b>				Date of Modification	
<b>Modified Article</b>		Programmed ROM				<b>Execution Date</b>	
<b>Reason for Modification</b>		<div><div><input type="checkbox"/> Parts catalog correction <input type="checkbox"/> Vender change</div><div><input checked="" type="checkbox"/> To meet standards ( ) <input type="checkbox"/> Part standardization</div><div><input type="checkbox"/> To facilitate assembly <input checked="" type="checkbox"/> To improve reliability <input type="checkbox"/> Other</div></div> <p>The software has been modified as follows;</p> <p>1. If the memory capacity came to zero at the end of scanning a page, the scanned file was deleted without notification. However, the scanned file remains in the memory for transmission with new software.</p> <p>2. In the handset mode, when “ENTER SPEED CODE” was displayed, On-Hook key was activated. With the new software, this key is not activated in the same case.</p>				From the August, 1993 production.	
Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0947106L	H0947106M	Programmed ROM - Barbara 2/3	1 -> 1	X/O		--	--
(ver. 1.12)	(ver. 1.13)						
<div>H.Motojima Assistant General Manager FTS Sect. TS Dept.</div>							

**MODIFICATION BULLETIN NO. Barbara-008**

ISSUED ON Oct. 26, 1993

<b>Model</b>	<b>Barbara 1, 2 and 3</b>						<b>Date of Modification</b>	
<b>Modified Article</b>	PCB - FCE						<b>Execution Date</b>	
<b>Reason for Modification</b>	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Parts catalog correction  <input type="checkbox"/> Vender change         </div> <div> <input type="checkbox"/> To meet standards ( )  <input type="checkbox"/> Part standardization         </div> <div> <input type="checkbox"/> To facilitate assembly  <input checked="" type="checkbox"/> To improve reliability  <input type="checkbox"/> Other         </div> </div> <p>The modem capture range has been widened.          This modification is a countermeasure to reduce reception errors when communicating with remote terminal with incorrect signal ratio.</p>						From 1st production of January, 1993	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H092 8501	H092 8509	PCB - FCE 1 W/O ROM	1 → 1	X/O		127	...
H093 8501	H093 8509	PCB - FCE 2/3 W/O ROM	1 → 1	X/O		127	...
H094 7103	H061 7102	IC - RF5C72: DSP	(1 → 1)	X/O			

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**MODIFICATION BULLETIN NO. Barbara-009**

ISSUED ON Oct. 26, 1993

<b>Model</b>	<b>Barbara 3</b>					<b>Date of Modification</b>	
<b>Modified Article</b>	Deculer Bracket and Spring					<b>Execution Date</b>	
<b>Reason for Modification</b>	<div> <input type="checkbox"/> Parts catalog correction             <input type="checkbox"/> To meet standards (    )             <input type="checkbox"/> To facilitate assembly         </div> <div> <input type="checkbox"/> Vender change             <input type="checkbox"/> Part standardization             <input type="checkbox"/> To improve reliability         </div> <div> <input checked="" type="checkbox"/> Other         </div> <p>The decurler bracket and spring clutch have been changed to prevent the edge of the spring from scratching the thermal head surface.</p>					Already executed	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H094 7701	H094 2120	Spring Clutch - Decurler	1 → 1	X/O		114	...
H093 7709	H094 2121	Decurler Bracket	1 → 1	X/O		154	...

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**MODIFICATION BULLETIN NO. Barbara-010**

ISSUED ON Oct. 26, 1993

<b>Model</b>	<b>Barbara 3</b>					<b>Date of Modification</b>	
<b>Modified Article</b>	Cutter Unit					<b>Execution Date</b>	
<b>Reason for Modification</b>	<input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards (      ) <input type="checkbox"/> To facilitate assembly <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input type="checkbox"/> To improve reliability <input checked="" type="checkbox"/> Other						
<p>To supply the micro switch in the cutter unit, the followig part number has been set up.</p>							
Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H094 2200A	H094 2200B	Cutter Unit	1 → 1	O/O		124	...
	H502 2210	Micro Switch - Cutter	0 → 2				
<div style="text-align: right;"> <p>S.Hamano</p> <p>Assistant General Manager Second Technical Support Section International Marketing Group</p> </div>							

MODIFICATION BULLETIN NO. Barbara-011ISSUED ON June 14th,1994

<b>Model</b>	<b>Barbara</b>						<b>Date of Modification</b>	
<b>Modified Article</b>	PCB-SBU						<b>Execution Date</b>	
<b>Reason for Modification</b>	<input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards (      ) <input type="checkbox"/> To facilitate assembly <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input type="checkbox"/> To improve reliability <input checked="" type="checkbox"/> Other						From March '93 production	
<p>Since the harness which connects the FDU and the SBU has been fixed to the SBU, a new part number has been set up.</p>								
Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog		
						Index No.	Page	
H0938506		PCB-SBU	1 → 0			122	8-5	
H0938309		Harness - SBU-FDU	1 → 0			*	8-6	
	H0938512	PCB-SBU	0 → 1	O / O	as a set			
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**MODIFICATION BULLETIN NO. Barbara-012**ISSUED ON June 30, 1994

Model	<b>Barbara</b>	Date of Modification
Modified Article	PCB - FCE	<b>Execution Date</b>
Reason for Modification	<div> <input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards (    ) <input type="checkbox"/> To facilitate assembly </div> <div> <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input checked="" type="checkbox"/> To improve reliability </div> <div> <input type="checkbox"/> Other </div> <p>The machine may disconnect the line even if it is a little noisy during reception. To prevent this problem, the modem on the FCE has been changed.</p>	From 1st production of January, 1994

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0928509	H0928509A	PCB - FCE1 -w/o ROM	1 → 1	X / O		127	*
H0938509	H0938509A	PCB - FCE3 - w/o ROM	1 → 1	X / O		127	*
H0928511B	H0928511C	PCB - FCE1 Fr - w/ROM	1 → 1	X / O			
H0938511B	H0938511C	PCB - FCE3 Fr - w/ROM	1 → 1	X / O			
						127	*
H0617102	H5047154	lc - DSP: RF5C72	(1 → 1)			127	*

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**MODIFICATION BULLETIN NO. Barbara-013**ISSUED ON June 30, 1994

Model	<b>Barbara</b>						Date of Modification	
Modified Article	Thermal Head						<b>Execution Date</b>	
Reason for Modification	<input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards (      ) <input type="checkbox"/> To facilitate assembly <input checked="" type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input type="checkbox"/> To improve reliability <input type="checkbox"/> Other						Effective after the old parts have become out of stock.	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0945203	H0965200	Thermal Head	1 → 1	O / O	as a set	17	*
H0937706	H0962001	Bracket - Thermal Head	1 → 1	O / O	as a set	16	*

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MODIFICATION BULLETIN NO. Barbara-014ISSUED ON Sep. 14, 1994

<b>Model</b>	<b>Barbara 1 (Except French Version)</b>					Date of Modification	
<b>Modified Article</b>	Software					<b>Execution Date</b>	
<b>Reason for Modification</b>	<input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards (      ) <input type="checkbox"/> To facilitate assembly <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input checked="" type="checkbox"/> To improve reliability <input type="checkbox"/> Other  See next page.					From April production in 1994.	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
H0927106J	H0927106K	ROM - PF01	1 → 1	X / O	for the claimed machine		

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**DETAILS OF MODIFICATION****Reason of the modification (MB#Barbara-014)**

1. Countermeasure for the following problems,
  - 1) Horizontal black line at the end of image when the over length document is copied.
  - 2) Sender's RTI is not printed rightly on the TCR of the receiver if the Japanese Katakana is programmed in the RTI of the receiver.
  - 3) Resolution LED "SSF" is lit even if the message is being sent with detail mode.  
Condition: Operator selects DTL for first page and SSF for second page, and sends them to the receiver which does not have SSF mode.
  - 4) Communication problem with PC-FAX. (Reported from Switzerland.)
2. Parameter change for the ringing detection. UK only.  
ringdat5 (ri env off time / 40msec) 03 to 10
3. Parameter change for the CNG detection. Requested by REBV.  
cng bys (Address D0h) 02h to 10h

**MODIFICATION BULLETIN NO. Barbara-015**

ISSUED ON Sep. 14, 1994

[illegible]

**DETAILS OF MODIFICATION**

**Reason of the modification (MB#Barbara-015)**

1. Countermeasure for the following problems,
  - 1) Horizontal black line at the end of image when the over length document is copied.
  - 2) Sender's RTI is not printed rightly on the TCR of the receiver if the Japanese Katakana is programmed in the RTI of the receiver.
  - 3) Resolution LED "SSF" is lit even if the message is being sent with detail mode.  
Condition: Operator selects DTL for first page and SSF for second page, and sends them to the receiver which does not have SSF mode.
  - 4) Communication problem with PC-FAX. (Reported from Switzerland.)

MODIFICATION BULLETIN NO. Barbara-016ISSUED ON Sep. 14, 1994

<b>Model</b>	<b>Barbara 2, 3</b>					<b>Date of Modification</b>	
<b>Modified Article</b>	Software					<b>Execution Date</b>	
<b>Reason for Modification</b>	<input type="checkbox"/> Parts catalog correction <input type="checkbox"/> To meet standards (      ) <input type="checkbox"/> To facilitate assembly <input type="checkbox"/> Vender change <input type="checkbox"/> Part standardization <input checked="" type="checkbox"/> To improve reliability <input type="checkbox"/> Other  See the attached page.					French version: from May production in 1994. Other versions: from April production in 1994.	

Old Part No.	New Part No.	Description	Q'ty Used Old → New	Interchange- ability	Remarks	Parts Catalog	
						Index No.	Page
		(For French version)					
H0947107B	H0947107C	ROM - RF02/240 - FRA	1 → 1	X / O	for the claimed machine		
		(For the other version)					
H0947106M	H0947106N	ROM - RF02/240	1 → 1	X / O	for the claimed machine		

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**DETAILS OF MODIFICATION****Reason of the modification (MB#Barbara-016)**

1. Countermeasure for the following problems,
  - 1) Horizontal black line at the end of image when the over length document is copied.
  - 2) Horizontal black line may appear at the end of image when the image is sent with DTL, 9600bps and ECM mode.
  - 3) TCR data may be broken after the recording paper jammed during reception.
  - 4) "M.RECV" is not printed but "REC" on the TCR if the memory overflow happens during substitute reception.
  - 5) Sender's RTI is not printed rightly on the TCR of the receiver if the Japanese Katakana is programmed in the RTI of the receiver.
  - 6) Resolution LED "SSF" is lit even if the message is being sent with detail mode.  
Condition: Operator selects DTL for the first page and SSF for the second page, and sends them to the receiver which does not have SSF mode.
  - 7) Non-memory machine may show the error code 0-24 (Non. memory Rx was done due to no RTI/CSI from the other end).
  - 8) Data at BIT7 of BITSW0 may change.
  - 9) Wording correction in French. Requested by RIF.
  - 10) Communication problem with PC-FAX. (Reported from Switzerland.)
2. Parameter change for the ringing detection. UK only.  
ringdat5 (ri env off time / 40 msec) 03 to 10
3. Parameter change for the CNG detection. Requested by REBV.  
cng bys (Address D0h) 02h to 10h