RICOH	Technical Bulletin	No. RTB-001

SUBJECT: Software Modification	DATE: Nov. 30, '94 PAGE: 1 of 1
PREPARED BY: S. Hizen CHECKED BY: S. Hamano	FROM: 2nd Technical Support Section

CLASSIFICATION:		MODEL:
■ Action Required ☐ Troubleshooting ☐ Retrofit Information	☐ Revision of service manual ☐ Information only ☐ Other	IBIS (A128)

Because of software changes, the ROM has been changed from A1285106**A** to A1285106**C**.

NOTE: P/N A1285107**B** has not been installed on the production machines.

The details of software changes are as follows:

1. SP43 (Vertical Magnification Adjustment)

Old
a) The adjustable data of SP43 is from 1 to 15. (0.2% / step).
b) The default value is " 8 ".

New
a) The adjustable data of SP43 is from 0 to 23 (0.2% /step).
b) The default value is " 12 ".

2. SP61 (VL Correction Interval)

The default value for SP61 has been changed from " 0 " (+1 / 70H) to " 3 " (+1 / 140H).

The cut-in serial numbers of the new ROM (P/N A1285106C) are as follows:

Japan Production		RIF Production	
Machine Code	Cut-in Serial Number	Machine Code	Cut-in Serial Number
A128 - 10	2644090001		
A128 - 15	1A14090001		
A128 - 17	A359410281		
A128 - 19	A3594092249		
A128 - 22	2634090001	A128 - 22	2634690001
A128 - 26	3F11040001	A128 - 26	3F17040001
A128 - 27	A3594101399	A128 - 27	A3594690001
A128 - 28	A359411XXXX		
A128 - 29	A3594100881		
A128 - 39	265411XXXX		
A128 - 99	006411XXXX		

RICOH Technical Bulletin No. RTB-002

SUBJECT: Service Manual Correction	DATE: Jan. 15, '95 PAGE: 1 of 1
PREPARED BY: S. Hizen CHECKED BY: S. Hamano	FROM: 2nd Technical Support Section

CLASSIFICATION:

- ☐ Action Required
- ☐ Troubleshooting
- ☐ Retrofit Information
- ■ Revision of service manual
- ☐ Information only
- ☐ Other

MODEL: IBIS

The procedure #4 in the service manual page 5-69 (6. 10:Corona Current Adjustment) is not necessary for the Ibis.
Delete procedure #4 "Disconnect CN123 on the main board" from Ibis service manual.

Reason:

The Ibis service manual was made based on the N220 series service manual.
The procedure is necessary for the N220 series because the N220 has a development unit set sensor (CN 123) and it is neccessary to disconnect this sensor when the corona current is adjusted.
The Ibis does not have a development set sensor and the procedure #4 is not necessary for these models.

REVISED ON DECEMBER 31, '95

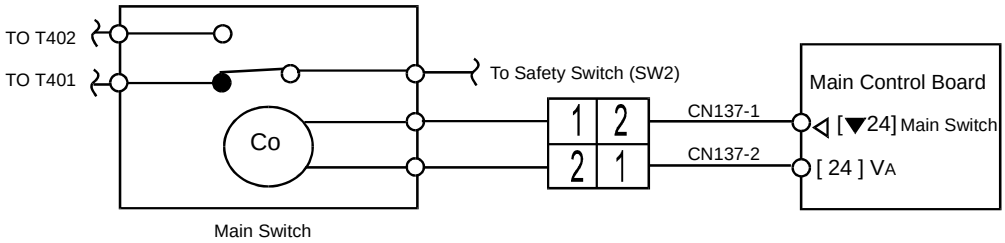
RICOH	**Technical Bulletin**	**No. RTB-003**
SUBJECT: Energy Star		DATE:September 30, '95 PAGE:1 of 6
PREPARED BY: N. Kaiya CHECKED BY: M. Iwasa	FROM: 2nd Technical Support Section	
CLASSIFICATION: ☐ Action Required ☐ Troubleshooting ☐ Retrofit Information ■ Revision of service manual ☐ Information only ☐ Other		MODEL: Ibis -10, -15, -17 only

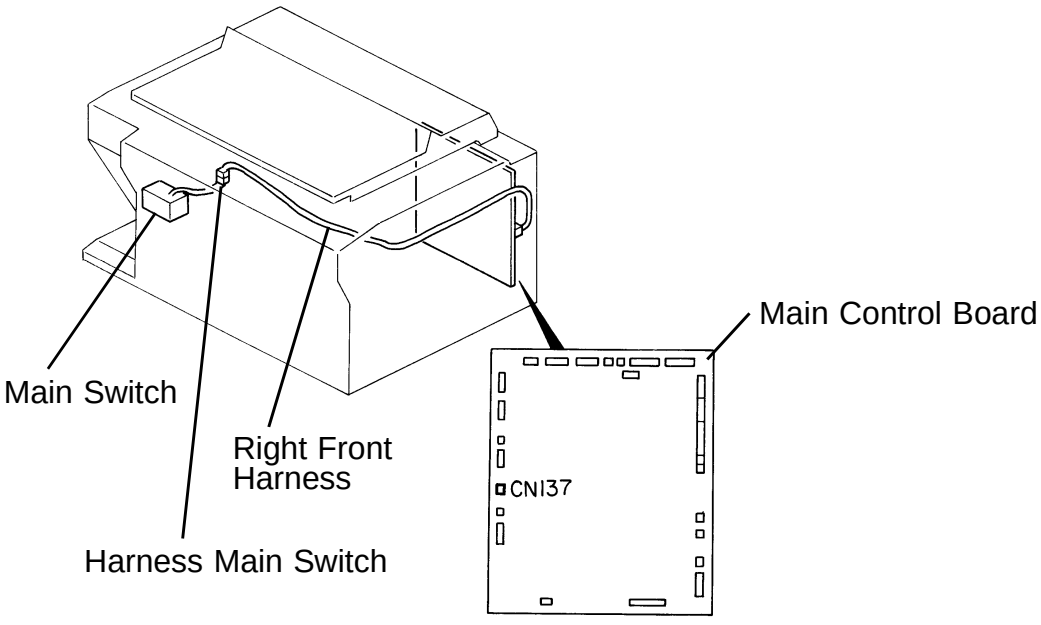
This RTB explains the modifications made to meet the Energy Star specifications. With this modification, to save energy consumption, the copier automatically turns off 30 minutes after the last copying job has been completed.

The details of the machine operation can be found on pages 3 to 4 of this RTB.

Auto Off Mode

To automatically turn off the copier, a new type of main switch with an incorporated coil is used. When the CPU drops CN137-1 from +24V to 0, the main switch contact is opened. The P to P wiring diagram and connector layout are shown below.





SP Mode

The following two modes have been newly provided.

Mode No.	Function	Settings
SP118	Auto off time can be selected	0 : 30 minutes (default) 1 : 15 minutes 2 : 1 hour 3 : 1.5 hour 4 : 2 hours
SP9-7	Output check for the main switch (the machine will turn off)	

The auto off time can also be selected by the customer. Please refer to page 4 of this RTB for the procedure.

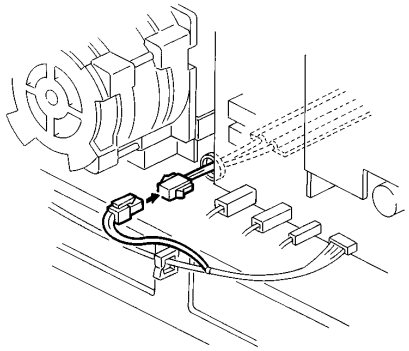
Instruction Sheet

An additional explanation sheet has been added to the operating instructions booklet. Please refer to pages 5 and 6 of this RTB for the contents of the sheet. The Energy Saver Mode described on the second page of this instruction sheet is the Auto Energy Saver Mode originally available with this copier.

Anti - Condensation Heater

To meet a very strict specification for power comsumption in auto off mode, drum anti-condensation heater connector is kept disconnected at the factory. So, at the installation, please check the humidity conditions at the customer site and set the heater connector if necessary.

The anticondensation heater connector can be found at the rear of the machine, next to the main drive motor. Remove the rear cover and locate the unplugged red connectors. Caution: Unplug the copier power cord before starting this procedure.



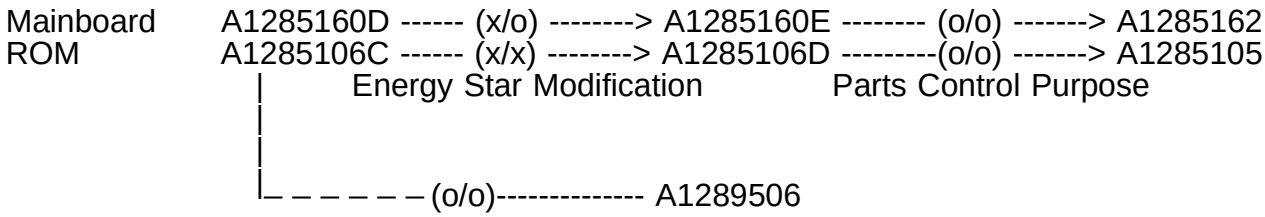
RICOH **Technical Bulletin** **No. RTB-003**

SUBJECT: Energy Star

DATE:September 30, '95
PAGE: 3 of 6

Parts Number

The Energy Star modification has been made with only suffix changes, and later the part number has been changed for easier parts control. When changing the main board or the ROM in the field, please be careful of the following points .



Main board: The new main board (P/N A1285162) can be used for all machines.

ROM: The new ROM (P/NA1285105) can be used only in the Energy Star machines. The Energy Star machines are machines which have ROM P/N A1285105 or P/N A1285106D. For machines before Energy Star modification, please use ROM P/N A1289506 which is equal to A1285106C.

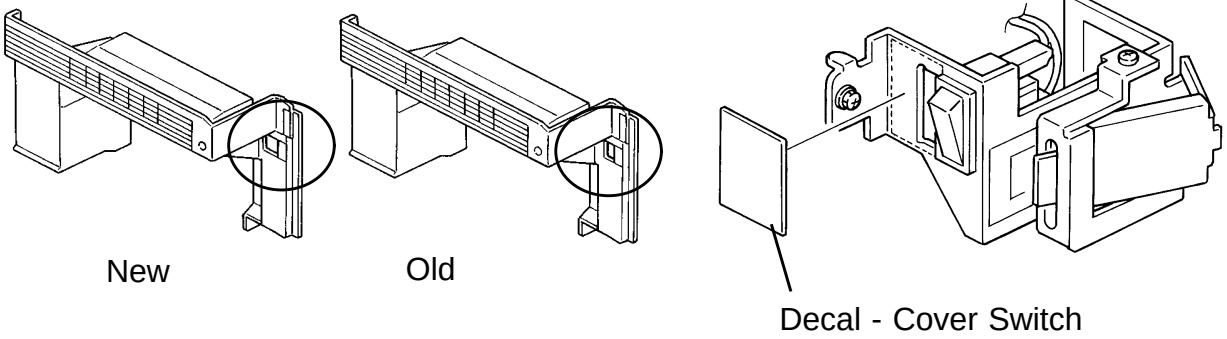
RICOH **Technical Bulletin** **No. RTB-003**

SUBJECT: Energy Star

DATE:September 30, '95
PAGE: 4 of 6

Left Lower Cover

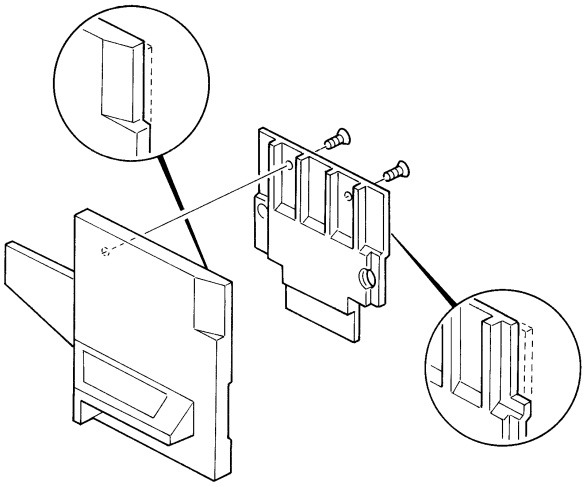
The opening on the left lower cover for the main switch has been extended. It is necessary to use the new cover for the Energy Star copiers. When using a new cover on a old machine, it is necessary to attach the cover switch decal to the switch bracket next to the main switch in order to cover the opening of the new left lower cover.



Sorter

The new main switch is larger than the old switch. When a sorter is installed on the copier, the main switch may interfere with the top right corner of the sorter cover. To prevent this, the sorter cover and sorter support cover have been modified from the following serial numbers. The old sorter can be used for other models or Ibis copiers before Energy Star modification.

S/N	A490 - 17:	2605040001 ~
	A490 - 25:	1965040001 ~
	A490 - 26:	3F00450001 ~



RICOH **Technical Bulletin** **No. RTB-003**

SUBJECT: Energy Star

DATE:September 30, '95
PAGE: 5 of 6

ENERGY SAVING INFORMATION

As an Energy Star Partner, we have determined that this copier model meets Energy Star Guidelines for energy efficiency.

This product was designed to reduce the environmental impact associated with copying equipment by means of energy saving feature such as AUTO OFF and ENERGY SAVER MODES.

About The Energy Saving Features of this Copier

Auto Off Mode

To conserve energy, this copier model automatically turns off 30 minutes after the last copying job has been completed. Power consumption is reduced from 0.18 kW (standby) to 0 kW.

To exit the Auto Off Mode, turn on the main switch. The main switch for this copier has three positions, press it all the way and hold for 1 - 2 seconds.

Changing the Auto Off Timer

You can change the default time of 30 minutes using the procedure below.

1. Press the Clear Modes/Energy Saver key.
2. Press the Clear/Stop key.
3. Press the Recall/Enter key. "5" will blink on the copy counter.
4. Enter "118" using the Number keys.
5. Press the Recall/Enter key.
6. The present setting is displayed on the Magnification Ratio indicator. Enter the desired setting using the Number keys referring to the following table.

Setting	Definition
0	30 minutes (default)
1	1 hour
2	1.5 hours
3	2 hours

8. Press the Recall/Enter key.
9. Press the Clear Modes/Energy Saver key to return to the Standby condition.

RICOH **Technical Bulletin** **No. RTB-003**

SUBJECT: Energy Star

DATE:September 30, '95
PAGE: 6 of 6

Energy Saver Mode

The copier will automatically enter a low power condition after the last copy is made or when the operator manually activates this feature by pressing the *Clear Modes/Energy Saver* key for more than one second.

Substantial energy savings can be achieved by reducing the copier fusing unit temperature and slightly increasing the time required for the machine to return to a ready condition. It is selectable depending upon your office requirements.

The factory default setting is no savings / no wait time. Upon your request, your service representative can change this setting to one of the four ratios. The greater the saving ratio, the more time the copier will need to return to the ready condition.

Additionally, your service representative can change how long the copier waits before automatically entering the Energy Saver Mode. The factory default is 1 minute and may be changed to 3 minutes.

How to Exit Energy Saver Mode

Any one of the following will cause the copier to return to the ready condition:
* Pressing any key with the exception of the Start key.
* Setting the originals in the optional document feeder.
* Opening or closing the bypass table.

Recycled Paper

Please contact your sales or service representative for recommended recycled paper types that may be used in this copier.