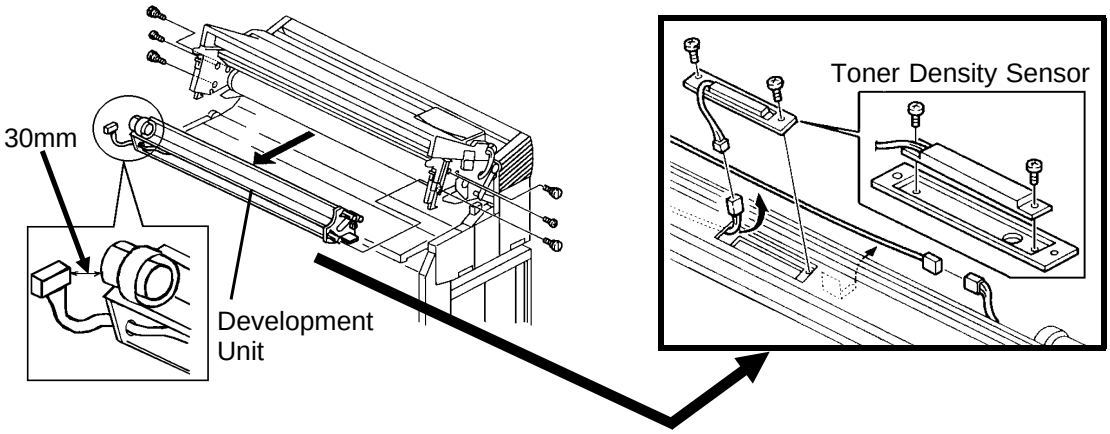
RICOH	Technical Bulletin	No. RTB-001
SUBJECT: Service Code E11		DATE:Dec. 15, '94 PAGE: 1 of 1
PREPARED BY: S. Hizen CHECKED BY: S. Hamano	FROM: 2nd Technical Support Section	
CLASSIFICATION: ■ Action Required ■ Troubleshooting ☐ Retrofit Information	☐ Revision of service manual ☐ Information only ☐ Other	MODEL: J2SS

[Phenomenon]
Service Code E11 is displayed on the operation panel when the machine is initialized either at installation or after developer replacement.

[Cause]
The transistor TR2 in the toner density sensor is broken by static electricity applied through the pins of the development unit connector when the connector is disconnected.

[Action Required]
The following preventive actions are required when the development connector is disconnected to protect the sensor from static electricity.



Preventive Actions:

1: Keep the connector at least 30mm away from the development unit when the unit is cleaned using a vacuum cleaner.

2: Do not touch the pins of the connector when the development unit is carried away from the main frame or cleaned.

Once Code E11 is displayed, the toner density sensor must be replaced with a new one.

Toner Density Sensor Replacement Procedure :

Please refer to sections 3.1 DEVELOPMENT UNIT REMOVAL and 3.3 TONER DENSITY SENSOR REPLACEMENT in Service Manual for the procedure.
Please handle the connector carefully to prevent static electricity damage after the sensor is replaced.

RICOH

Technical Bulletin No. RTB-002

SUBJECT: Service Manual Correction	DATE: Dec. 15, '94 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: J2 SS

Please correct your service manual as follows:

Page	Line	Incorrect	Correct
2-18	12	decreases and the voltage applied to **CN104-B20**	decreases and the voltage applied to **CN104-A10**
2-18	14	carrier on the sensor coils increases and the voltage at **CN104-B20**	carrier on the sensor coils increases and the voltage at **CN104-A10**
2-29	7	power drives **PT201** and RA201	power drives **PTC201** and RA201
2-29	9	activates the photocoupler **(PT201)** which in turn energizes	activates the photocoupler **(PTC201)** which in turn energizes
3 in Roll Feeder section	22	Humidity sensor' function: if the humidity is **lower** than 45%	if the humidity is **higher** than 45%

RICOH

Technical Bulletin No. RTB-003

SUBJECT: Energy Star	DATE:October 31, '95 PAGE: 1 of 4
PREPARED BY: S. Hizen CHECKED BY: M. Iwasa	FROM: 2nd Technical Support Section

CLASSIFICATION:

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

MODEL:
J2SS
-12, -17 only

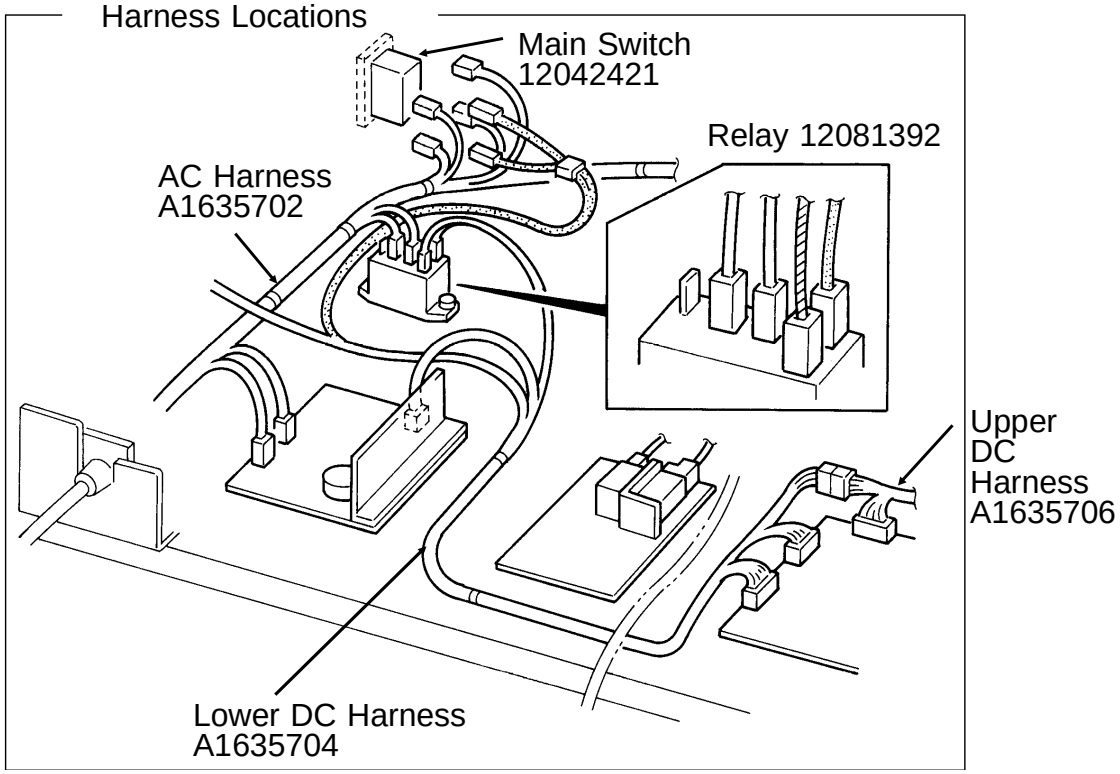
This RTB explains the modifications made to meet the Energy Star requirements.

(With this modification, to conserve energy, 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 2, 3, and 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. The connector layout is shown below.



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

SUBJECT: Energy Star

DATE:October 31, '95
PAGE: 2 of 4

SP Mode

The following two modes have been newly provided (ROM : A163-5208). *

Mode No.	Function	Settings
15	Auto off time can be selected	1 ~ 120 minute (1 minute per step) Default : 30 minutes

The auto off time can also be selected by the customer.
Please refer to pages 3 and 4 of this RTB for the procedure.

The Auto off mode is prohibited in the following conditions.
* The roll feeder is operating.
* A sheet of paper is set on the feed table.
* A Jam or SC indicator in on.
* Toner end indicator is on or Used Toner bottle is full.

Instruction Sheet

An additional explanation sheet has been added to the operating instructions booklet. Please refer to pages 3 and 4 of this RTB for the contents of this 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.

*

Note: 1. When you use the new main board (main board modified for Energy Star) in a non-Energy Star machine, please replace the ROM with the ROM (A163-9506).

2. When you replace the RAM board, please clear all memories with SP mode -1 -21 and input the factory data refering to the service manual. (Memory clear mode section)

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

SUBJECT: Energy Star (J2SS O/I)

DATE:October 31, '95
PAGE: 3 of 4

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 features 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 0.3347 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/Stand by key.
2. Hold down the Clear/Stop key for more than 3 seconds until the and indicators blink.
3. Select "15" using the plus (+) and minus (-) keys. The selected program number is displayed in the Lead Margin indicator.
4. Press the Function Select key to select the Paper Length indicator. "30" is displayed in the Paper Length indicator.
5. Select the required setting using the plus (+) and minus (-) keys. You can select from 1 to 120 minutes.

(continued)

6. Press the RF Select key to store the required setting.
7. To return to the Ready condition, press the Clear Modes/Stand by key three times, or turn off and on the main switch.

Energy Saving

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/Stand by key for more than three seconds.

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

Press the Clear Modes/Stand by key to return to the ready condition.

Recycled Paper

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

RICOH	Technical Bulletin	No. RTB-004
SUBJECT: Service Manual Correction		DATE:October 31, '95 PAGE: 1 of 1
PREPARED BY: S. Hizen CHECKED BY: M. Iwasa	FROM: 2nd Technical Support Section	
CLASSIFICATION: ☐ Action Required ■ Revision of service manual ☐ Troubleshooting ☐ Information only ☐ Retrofit Information ☐ Other		MODEL: J2SS

Please correct your service manual as follows.

Page 5 - 19 (4.7 Grid Voltage Adjustment)

Incorrect: Adjustment Standard : dc -2 ± 10V

↓

Correct: Adjustment Standard : dc -940 ± 10V

RICOH

Technical Bulletin No. RTB-005

SUBJECT: Proper Fusing Temperature Setting for Paper

DATE: June 30, '96
PAGE: 1 of 2

PREPARED BY: A. Sasaki
CHECKED BY: T. Inoue

FROM: 1st Field Information Dept. QAC

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

MODEL: J2-SS

To get better copy quality, the fusing temperature should be adjusted for paper type, paper brand, and environmental condition.

A) For some particular paper types, paper brands, and environmental conditions

Environmental conditions: L/L ------ 15°C, 20%RH
M/M ---- 23°C, 65%RH
H/H ----- 30°C, 80%RH

1. Plain Paper

Paper	T6200/T6000			Azon Bond			Azon Recyled Bond			Regma 61gr			Regma 75-80gr		
Environ	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H
Mode 8															
Mode 7															
Mode 6															
Mode 5															
Mode 4															
Mode 3	O			O	O					O			O		
Mode 2		O				O	O				O			O	O
Mode 1			O					O	O			O			

Paper	Regma 90gr			Regma 110gr			Ozalid EF-Weiss								
Environ	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H						
Mode 8															
Mode 7				O	O	O									
Mode 6	O	O													
Mode 5			O												
Mode 4															
Mode 3							O								
Mode 2								O							
Mode 1									O						

2. Vellum

Paper	TA-70			Azon Vellum			Erazable Vellum			Regma 91gr					
Environ	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H			
Mode 8							O	O	O						
Mode 7										O					
Mode 6	O			O	O	O					O	O			
Mode 5		O	O												
Mode 4															
Mode 3															
Mode 2															
Mode 1															

3. Film

Paper	Azon Film 3mil			Azon Film 4mil			Regma Film 3mil			Regma Film 4mil			Hoechst Film 4mil		
Environ	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H	L/L	M/M	H/H
Mode 8															
Mode 7															
Mode 6															
Mode 5															
Mode 4				O	O	O				O	O	O	O	O	O
Mode 3	O	O	O				O	O	O						
Mode 2															
Mode 1															

B) For non-listed papers
The following is the procedure to find out the best Fusing Temperature Setting for each paper.
The best setting is at the highest position before creasing begins to appear.

1. Set the Fusing Temperature Setting to the maximum mode for the type of paper, such as Plain Paper, Vellum, or Film using SP #1, SP #2 or SP #3.

   Plain Paper: Mode 7 (SP #1)
   Vellum: Mode 8 (SP #2)
   Film: Mode 5 (SP #3)

2. Make 3 white copies with the largest size of the paper available in the vertical grain direction. (White copy is the worst case for creasing.)
3. Check whether creasing appears on any of the copies.
4. If creasing appears, lower the Fusing Temperature Setting by 1 and repeat Steps # 2~4.

RICOH	**Technical Bulletin**	**No. RTB-006**
SUBJECT: Method for Judging Whether the Pressure Roller is Still Usable or Not		DATE: June 30, '96 PAGE: 1 of 1
PREPARED BY: A. Sasaki CHECKED BY: T. Inoue	FROM: 1st Field Information Dept. QAC	
CLASSIFICATION: ☐ Action Required ■ Troubleshooting ☐ Retrofit Information ☐ Revision of service manual ☐ Information only ☐ Other		MODEL: J2-SS

The following is the procedure for judging whether the pressure roller is still usable or not, by making a black copy.

1. Access SP mode with the steps below.
   Press the **Clear Modes (C)** key, **Plus (+)** key, **Minus (-)** key, **Clear/Stop** key, and **Clear/Stop** key (hold down for longer than 3 seconds) in order.

2. Select Lamp Off Mode, using the following steps.
   a) Confirm that the "Lead Margin" indicator lights to allow an SP number to be input. (If the "Lead Margin" indicator does not light, pressthe **Function Select** key until it lights.)
   b) Select "-51" by pressing the **Minus** key. ("-51" is the number to select Lamp Off Mode.)
   c) Press the **Function Select** key until the "Paper Length" indicator lights.
   d) Select "1" by pressing the **Plus** key. ("1" is the number to set Lamp Off Mode.)
   e) Press the **RF Select** key to confirm Lamp Off Mode.

3. To prevent paper misfeed, make some white area at the leading edge, using the steps below.
   a) Press the **Function Select** key until the "Lead Margin" indicator lights.
   b) Continue to press the Plus key until "99 mm" or "4.0 inches" (max. value) is indicated.

4. Make a copy using a less fusible kind of paper, like film, translucent paper or thicker plain paper with the vertical grain direction.

   Note: Before making a copy, set the fusing temperature setting to the mode which is one step lower than the proper setting for the particular kind of paper (ex. If the proper setting is Mode 3, select Mode 2 for this test). (Refer to RTB No. 005 about the proper settings for some particular types of paper and the adjustment procedure for non-listed papers.)

5. Scrape some black areas on the copy using a cotton cloth 5 times.

6. Check whether the toner is peeled off on the areas that correspond to the scratched parts of the pressure roller, and check if white lines or bands appear. If so, the pressure roller should be replaced.

7. Before turning the main switch off to reset the SP mode, reset "Lamp Off Mode", "Lead Margin" and "Fusing Temperature Setting" back to the original settings.