RICOH Technical Bulletin No. Aficio 400-001

SUBJECT: Software change on the SCU Board	DATE: 30,Jun. 1996
PREPARED BY:E.FUKU CHECKED BY:S.Fujii	FROM: 2nd Field Information Dept. QAC

CLASSIFICATION:		MODEL:
☐ Action Required	☐ Revision of service manual	Aficio 400
☐ Troubleshooting	■ Information only	
☐ Retrofit Information	☐ Other	

The Aficio 400 has been modified to resolve the following problems.

Problem :

1) SP 4907

Because of a problem with soft ware, auto letter/photo separation only works when SP4907 is set to NO. This should be the other way around.

2) SP 4909

All of the settings in SP mode 4909 are "0", which produces improper images. They should be reset in the following manner.

Mode number	Setting
AP 4909 - 1	32
- 2	48
- 3	208
- 4	60
- 5	192
- 6	0
- 7	16
- 8	128

Countermeasures:

Starting from the June Production run, the software has been modified.
When in SP mode 4907, auto letter/photo separation will work when the setting is YES.
Also, as a result of this modification, the default values for SP4909 1to 8 have been corrected.

For the machines manufactured before June, please take the following temporary countermeasures:
Please set SP 4907 to NO to use auto letter/photo separatione and vice veras.
Also , please set the default values for SP4909 as indicated above.

When you install new ROMs, the SP Mode settings are reset to the default values.
The SP Mode settings should be reset back to what they were before the ROM was replaced.

RICOH Technical Bulletin No. RTB-002

SUBJECT: Manual correction	DATE: July 15, '96 PAGE: 1 of 3
PREPARED BY: E. Fukuyama CHECKED BY: S. Fujii For	FROM: 2nd Field Information Dept. QAC

CLASSIFICATION:

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

MODEL: AD3

We found the following incorrect information in the service manual for the AD3. Please correct your service manual.

1. SP Mode

SP number	Wrong	Correct
SP 4907 (GA4 Setting: Auto letter/photo separation)	Disabled **Enabled**	No **Yes**
SP7004 (Total Copy Counter Reset)	Resets or changes the initial electrical counter	**Japanese version only.** **Do not change the value.**
SP2902-6 Test Pattern Printing: Image memory)	Prints the test pattern for the memory unit. 0: Not used 1: Horizontal Stripes	**Not Used.** **Do not change the value.**

2. Special parts, on page 4-47

Wrong part number	Correct part number	Description
A1349011	A1309011	Charge Corona Unit with Cleaner

3. SC Codes

The following SC codes have been added.

SC303: Time out error for printer

NOTE: This SC303 has already been assigned as "Charge wire cleaner error". However, this SC code has been assigned again by mistake. Now, two SC303s exist. If an optional charge corona wire cleaner has been installed, to determine which SC303 has occurred, turn the main switch off. After switching it on again, if SC303 still exists, it is the "charge wire cleaner error."

- Definition -

The BCU cannot receive the printer ready signal from the EX-IPU

- Possible cause03. i TD 3Tj T3ble cause8BlG "2p 4ready signal from the EX-IPU

RICOH

Technical Bulletin No. RTB-004

SUBJECT: EX-IPU Board Modification	DATE: Nov. 30, '96 PAGE: 1 of 2
PREPARED BY: E. Fukuyama CHECKED BY: S. Fujii for	FROM: 1st Field Information Dept. QAC

CLASSIFICATION:

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

MODEL: AD3

Problem

1. Abnormal images, such as partially blank copies, dirty background, etc. appear.
2. One of these service codes is displayed: SC320, SC321 or SC322.

Cause

IC55 (RF5VG094) on the IPU board breaks down. There are defective lots of IC55 for the EX-IPU board on the Aficio 400. Those defective IC55s have been incorporated into the production of the Aficio 400 for the months between June and August. Those lot numbers are 6DH4P, 6EH4Q and 6FH4R on the IC55 for the EX-IPU board.

Countermeasure

Replace the IPU Boards in the machines that contain the ICs from the defective lots.

Field Measure

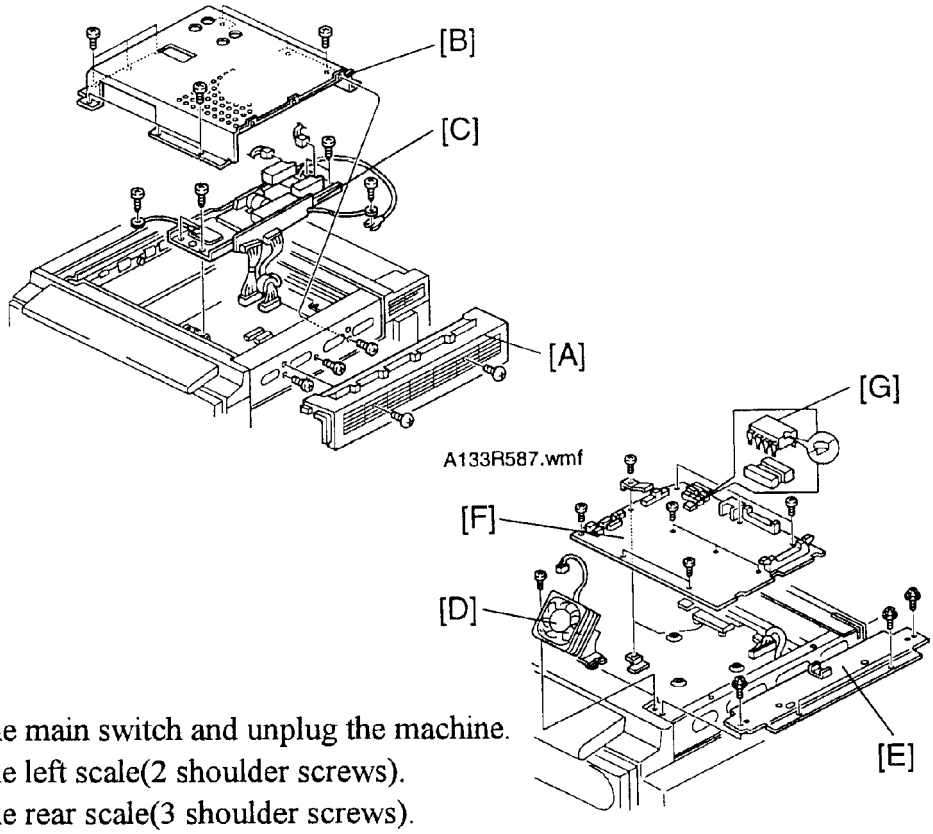
We will send the amount of EX-IPU Boards necessary to cover the targeted machines. We have already replaced the IC55s in a portion of the machines overseas. The machines in which the IC55s have already been replaced have been circled on the attached lists. The machines with the serial numbers that are not circled should have their EX-IPU Boards replaced during the next visit to the user's location.

We plan to re-use the EX-IPU Boards so please be sure to return them to us.

Targeted Machines

Model Number	June	July	August	Quantity
A133-10			9326080001~0122	122
-15	3A76060001~0025	3A76070001~0062	3A76080001~0103	190
-17	A3916060001~0100	A3916070001~0050	A3916080001~0200	350
-22	9316060001~0135	9316070001~0160	9316080001~0285	580
-26	3H90660001~040	3H90760001~0030	3H90860001~0030	100
-27	A3916060101~0355	A3916070051~0385	A3916080201~0580	970
			Total	2,312

IPU BOARD REPLACEMENT PRPCEDURE



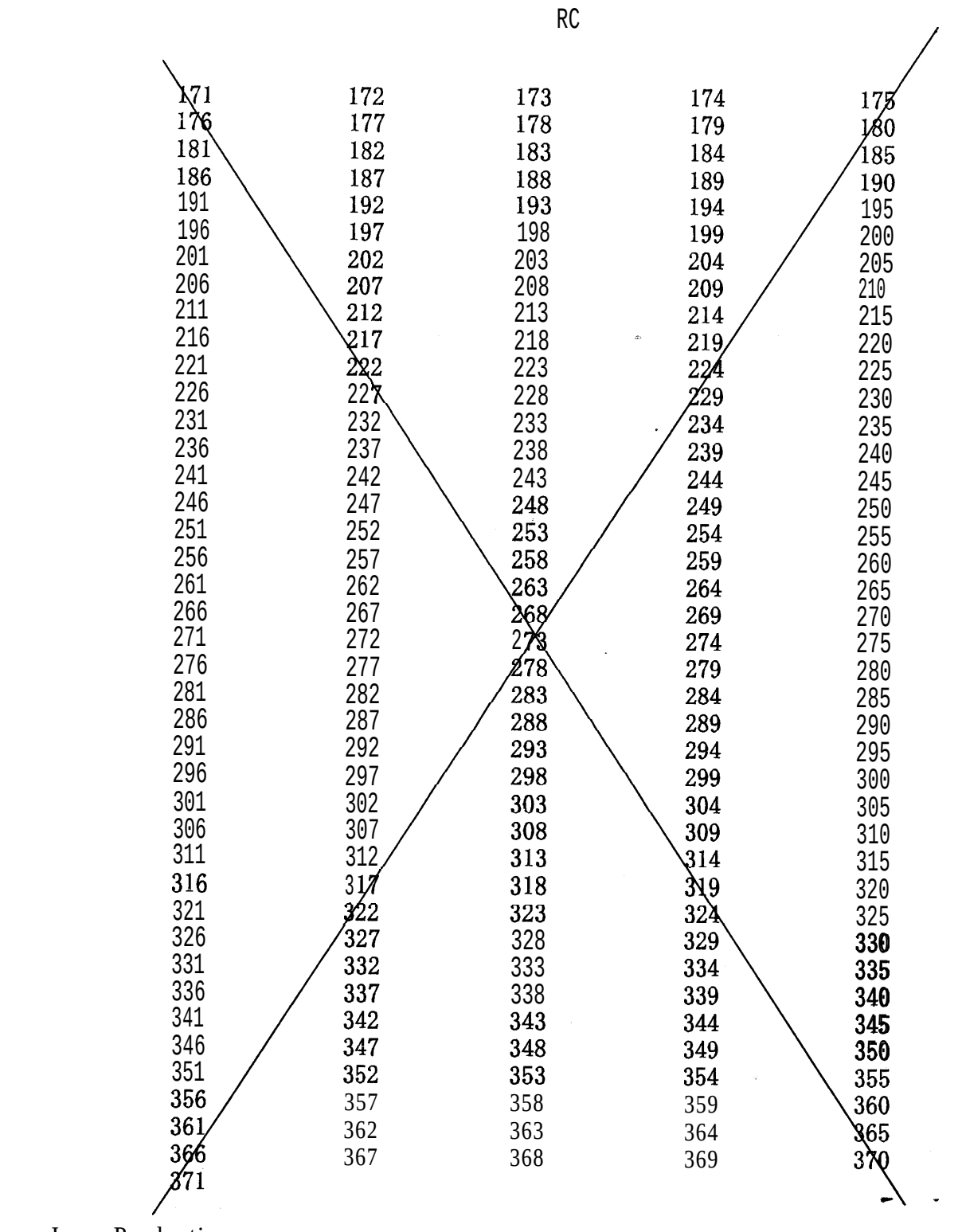
1. Turn off the main switch and unplug the machine.
2. Remove the left scale(2 shoulder screws).
3. Remove the rear scale(3 shoulder screws).
4. Remove the exposure glass(do not touch the exposure glass with dirty bare hands).
5. Remove the right upper cover [A] (2 screws).
6. Remove the SBU (optical) cover [B] (11 screws).
7. Remove the lens block/SBU assembly [C] (6 screws, 4 connectors).
8. Remove the IPU fan motor [D] (1 screw).
9. Remove the upper right stay [E] (4 screws).
10. Remove the EX-IPU [F] (all connectors, 9 screws, one grounding plate).

11a. For new machines:

The E ^{2} PROM (IC52) [G] from the old EX-IPU does not have to be installed on the new board when changing this board on new machines since the hard disk will not have bad sectors.

11b. For the used machines:

Remove the E ^{2} PROM (IC52) [G] from the old EX-IPU and install it on the new board. Since bad sector data is stored in it, and could be in effect in this case.



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361	362	363	364	365
366	367	368	369	370
371				

June Production

A3916060001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
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041	042	043	044	045
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051	052	053	054	055
056	057	058	059	060

061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100

July Production

A3916070001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050

August Production

A3916080001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
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086	087	088	089	090
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186	187	188	189	190
191	192	193	194	195
196	197	198	199	200

September Production

A3616090001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
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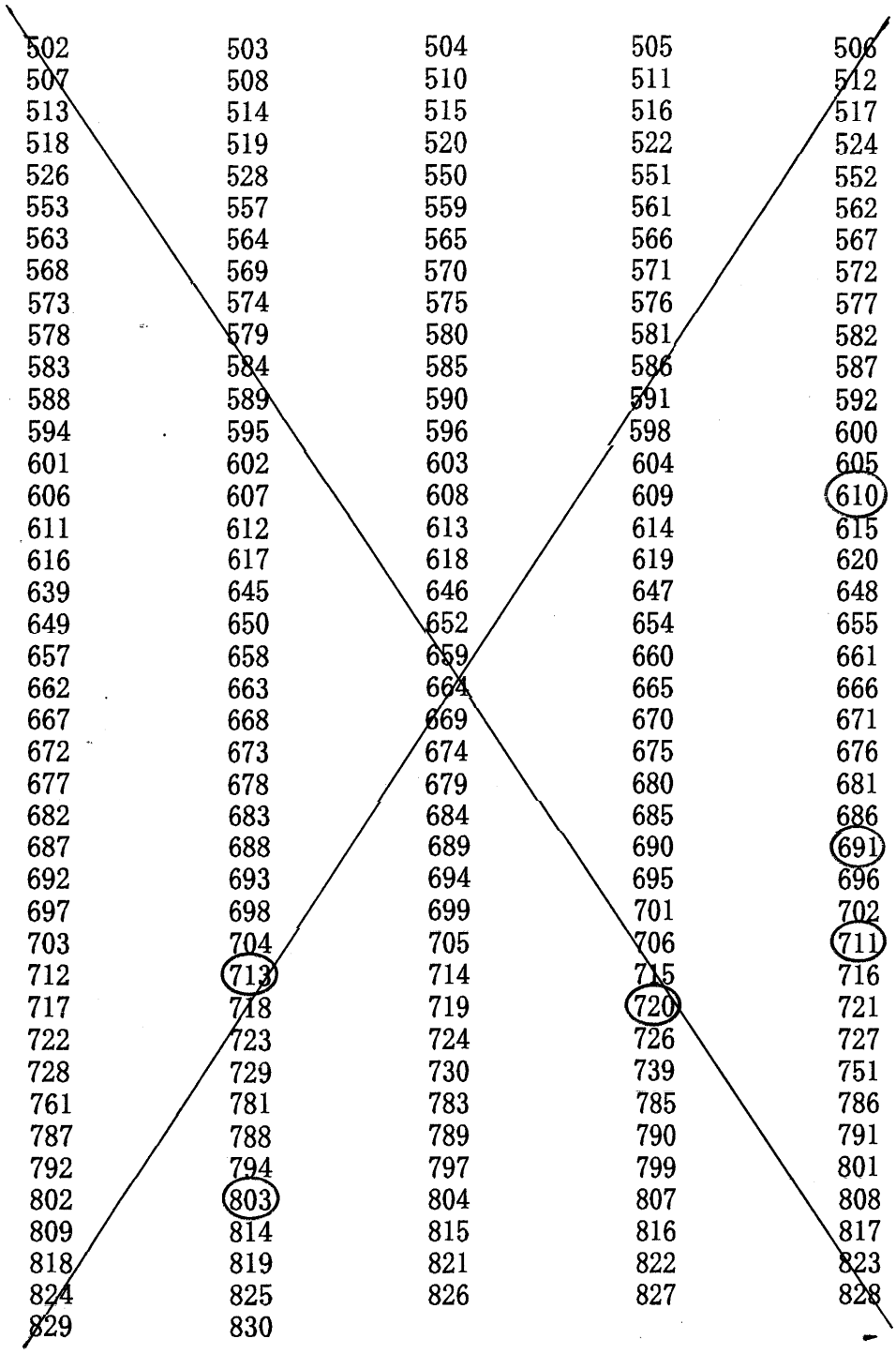

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809	814	815	816	817
818	819	821	822	823
824	825	826	827	828
829	830			

June Production

A3916060 101	102	103	104	106
107	108	110	113	115
142	144	146	147	149
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July Production

A3916070051	052	054	055	061
062	063	064	065	067
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342	343	344	345	346
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371	372	373	374	375
379	380	381	382	383
384	385			

August Production

A3916080202	203	204	205	206
207	208	209	210	211
212	213	214	215	216
217	218	219	220	221
222	223	224	225	226
227	228	229	230	231
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391	392	393	395	397
398	399	400	402	404
405	406	407	408	409
411	413	414	415	416
417	418	419	420	421
422	424	425	489	495
496	497	499	500	509
577	578			

~~September Production~~

~~A3916090178~~	~~219~~	~~239~~	~~242~~	~~246~~
~~248~~	~~275~~	277	~~278~~	~~279~~

GES USA

August Production

932608001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
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106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122			

RFR

April Production

A3916040080	081	084	086	088
089	090	095	097	098
099	104	117	119	121
122	123	125	127	128
130	133	135	142	146
147	148	152	154	155
156	157	158	163	164
165	166	167	174	175
176	177	181	183	189
190	191	193	198	199
212	213	229		

May Production

A3916050464	466	467	656	700
707	708	709	710	725
731	732	733	734	735
736	737	738	740	741
742	743	744	745	746
747	748	749	750	752
753	754	755	756	757
758	759	760	762	763
764	765	766	767	768
769	770	771	772	773
774	775	776	777	778
779	780	782	784	793
795	796	798	800	810
812	813			

June Production

A3916060145	148	150	151	152
153	161	162	174	175
176	177	181	183	184
185	195	196	208	209
220	223	224	225	229
230	231	232	297	354

July Production

A3916070053	056	057	058	059
060	066	069	071	072
073	074	076	078	079
081	082	089	090	091
094	095	097	100	107
130	131	132	133	134
135	138	150	151	152
153	154	155	156	157
158	159	160	162	166
171	172	173	174	175
176	177	182	183	184
185	186	188	273	297
298	299	301	306	309
313	315	316	320	321

August Production

A3916080269	271	326	353	394
396	423	427	429	430
431	432	433	434	436
438	439	440	441	444
447	455	456	460	461
462	463	464	465	466
467	468	470	475	476
477	482	483	484	485
486	487	488	490	491
492	493	494	514	524
526	527	531	532	533
534	535	536	537	538

September Production

A3916090218	220	230	231	232
233	254	255	256	257
259	260	261	262	335
336	337	338	341	344
345	346	347	349	350
351	352	360	361	364
365	369	371	374	375
376	377	379	381	382

October Production

A3916100350	351	353	357	379
382	383	384	385	386
387	389	390	391	392
393	394	395	396	397
398	399	400	401	402
403	404	405	406	407
408	409	410	411	412
413	414	415	416	417
419	420	423	425	446
448	449	452	453	454

RDG

April Production

A3916040094	096	218	219	222
223	224	228	232	233
234	235			

May Production

A3916050458	509	521	523	525
536	537	538	539	540
541	542	542	544	545
546	547	548	549	554
555	556	558	560	811

June Production

A3916060212	215	216	227	238
254	281	283	284	285
287	288	290	291	292
293	294	295	296	298
299	300	301	339	341
342	355			

July Production

A3916070305	308	312	333	340
341	347	348	350	351
353	362	363	364	365
366	367	368	369	370
376	377	378		

August Production

A3916080265	277	327	337	339
341	347	350	351	354
355	359	360	361	366
367	368	369	370	371
372	373	374	375	376
377	378	379	380	401
403	435	437	442	443
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459	469	472	473	474
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530	542	543	544	545
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551	552	553	554	555
556	557	558	559	560
561	562	563	564	565
566	567	568	569	570
571	572	573	574	575
576	579	580		

September Production

A1391609016	18	183	184	185
186	187	188	189	190

NRGI

April Production

9316040006	007	016	018	021

May Production

9316050038	041	048	050	062
063	064	065	070	071
072	073	079	080	082

June Production

9316060030	040	042	043	045
048	051	053	055	056

July Production

9316070006	007	008	009	011
013	061	082	083	085
086	160			

August Production

9316080006	008	118	121	123
125	148	150	161	163

September Production

9316090006	076	089	090	091
092	106	108	109	111
118	120	121	123	128
129	131	231	263	264
265	117	119		

NRGI

July Production

9316070038	121	123	143	145
146	147	152	153	154
155	156	157		

August Production

9316080120	122	124	144	146
156	158	199	284	285

SAVI US

April Production

3A76040001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025

May Production

3A76050001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
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101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125

June Production

3A76060001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025

July Production

3A796070001	003	005	006	008
010	011	012	013	014
015	016	017	018	019
020	021	022	023	024
025	026	027	028	029
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050	051	052	053	054
055	056	057	060	061

062	002	004	007	009
058	059			

August Production

3A7608001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	026
027	028	029	030	031
032	033	034	035	036
037	038	039	040	041
042	043	044	045	046
047	048	049	050	051
052	053	054	055	056
057	058	059	060	061
062	063	064	065	066
067	068	069	070	071
073	074	075	076	077
078	079	080	081	082
083	084	085	086	087
090	091	092	093	094
095 “	096	097	098	099
100	101			

September Production

3A76090001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	116
117	118	119	120	121
122	123	124	125	126
127	128	129	130	131
132	133	134	135	136
137	138	139	144	145
146	147	148	149	150

April Production

9316040001	002	003	004	005
008	009	010	011	012
013	014	015	017	019
020	022	023	024	025

May Production

9316050001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	039	040	042
043	044	045	046	047
049	051	052	053	054
055	056	057	058	059
060	061	066	067	068
069	074	075	076	077
078	081	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135

June Production

9316060001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	031
032	033	034	035	036
037	038	039	041	044
046	047	049	050	052
054	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110

111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135

July Production

9316070001	002	003	004	005
010	012	014	015	016
017	018	019	020	021
022	023	024	025	026
027	028	029	030	031
032	033	034	035	036
037	039	040	041	042
043	044	045	046	047
048	049	050	051	052
053	054	055	056	057
058	059	060	062	063
064	065	066	067	068
069	070	071	072	073
074	075	076	077	078
079	080	081	084	087
088 “	089	090	091	092
093	094	095	096	097
098	099	100	101	102
103	104	105	106	107
108	109	110	111	112
113	114	115	116	117
118	119	120	122	124
125	126	127	128	129
130	131	132	133	134
135	136	137	138	139
140	141	142	144	148
149	150	151	158	159

August Production

9316080001	002	003	004	005
007	009	010	011	012
013	014	015	016	017
018	019	020	021	022
023	024	025	026	027
028	029	030	031	032
033	034	035	036	037
038	039	040	041	042
043	044	045	046	047
048	049	050	051	052
053	054	055	056	057
058	059	060	061	062
063	064	065	066	067
068	069	070	071	072
073	074	075	076	077
078	079	080	081	082
083	084	085	086	087
088	089	090	091	092
093	094	095	096	097

098	099	100	101	102
103	104	105	106	107
108	109	110	111	112
113	114	115	116	117
119	126	127	128	129
130	131	132	133	134
135	136	137	138	139
140	141	142	143	145
147	149	151	152	153
154	155	157	159	160
162	164	165	166	167
168	169	170	171	172
173	174	175	176	177
178	179	180	181	182
183	184	185	186	187
188	189	190	191	192
193	194	195	196	197
198	200	201	202	203
204	205	206	207	208
209	210	211	212	213
214	215	216	217	218
219	220	221	222	223
224	225	226	227	228
229	230	231	232	233
234	235	236	237	238
239	240	241	242	243
244	245	246	247	248
249	250	251	252	253
254	255	256	257	258
259	260	261	262	263
264	265	266	267	268
269	270	271	272	273
274	275	276	277	278
279	280	281	282	283

Septemberr Production

9316090001	002	003	004	005
007	008	009	010	011
012	013	014	015	016
017	018	019	020	021
022	023	024	025	026
027	028	029	030	031
032	033	034	035	036
037	038	039	040	043
044	045	046	047	049
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
081	082	083	084	085
086	087	088	093	094
095	096	097	098	099
100	101	102	103	104
105	107	110	112	113

INFOTEC

April Production

3H90460001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020

May Production

3H90560001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060

June Production

3H90660001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040

July Production

3H90760001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030

August Production

3H9086003	006	008	011	013
019	020	021	022	023
024	028	027	029	030
001	002	004	005	007
009	010	012	014	015
016	017	018	025	026

September Production

3H90960001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030

RICOH	Technical Bulletin	No. RTB-005
SUBJECT: BCU Board Modification		DATE: Nov. 30, '96 PAGE: 1 of 3
PREPARED BY: E. Fukuyama CHECKED BY: S. Fujii for	FROM: 1st Field Information Dept. QAC	
CLASSIFICATION: ■ Action Required ☐ Troubleshooting ☐ Retrofit Information ☐ Revision of service manual ☐ Information only ☐ Other	MODEL: AD3	

Problem

Ozone fan motor lock/Exhaust fan motor lock (SC490)

Cause

In stand-by mode, the Fan Motor runs on a 5Hz duty cycle and the charge current for the capacitor of the Fan Motor flows through IC224. This over-current damages IC224, leading to gradual deterioration and eventual breakdown.

Countermeasures

1. The capacitors for the Fan Motor, C307 and C308, have been changed from 4.7µF to 0.47µF to prevent damage to IC224 by the charge current. This modification was implemented starting from the machines with the serial numbers listed below.

A133-10:	November production	932611001~
A133-15:	October production	3A76100001~
A133-17:	October production	A3916100001~
A133-22:	October production	9316100001~
A133-27:	October production	A3916100471~

2. Software Modification
   The duty cycle of the fan motor has been changed from 5Hz to 1Hz to reduce the charge cycles for capacitors C307 and C308 to prevent damage to IC224. The implementation of this software modification is scheduled to begin with the December production machines.

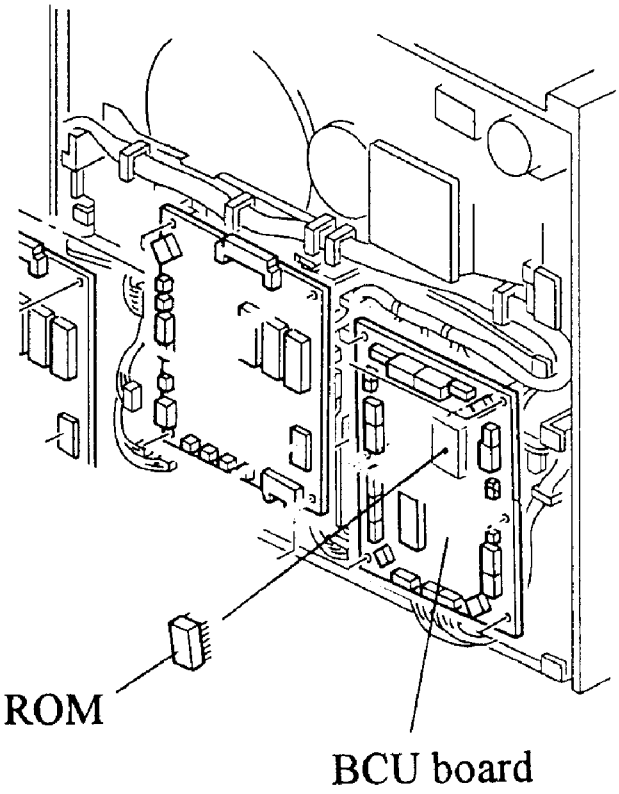
Field Measures

We will supply the amount of ROMs necessary to cover the targeted machines. We have already replaced the capacitors and ROMs in a portion of the machines overseas. Please note that if the ROM is replaced, replacement of the capacitor is no longer necessary. The serial numbers of the machines that are circled on the attached lists have already had the capacitor replaced. The serial numbers of the machines that are crossed out have already had the ROM replaced. The serial numbers on the lists that have not been circled or crossed out should have their ROMs changed during the next visit to the user's location.

Targeted Machines (Serial Numbers)

Month	A133-10	A133-15	A133-17	A133-22	A133-26	A133-27
April		3A76040001 ~0025	A3916040001 ~0079	9316040001 ~0025	3H90460001 ~0020	A3916040080 ~0238
May		3A76050001 ~0125	A3916050001 ~0371	9316050001 ~0135	3H90560001 ~0060	A3916050372 ~0830
June		3A76060001 ~0025	A3916060001 ~0100	9316060001 ~0135	3H90660001 ~0040	A3916060101 ~0355
July		3A76070001 ~0162	A3916070001 ~0050	9316070001 ~0160	3H90760001 ~0030	A3916070051 ~0385
August	9326080001 ~0122	3A76080001 ~0103	A3916080001 ~0200	9316080001 ~0285	3H90860001 ~0030	A3916080201 ~0580
September		3A76090001 ~0225	A3916090001 ~0165	9316090001 ~0283	3H90960001 ~0060	A3916090166 ~0550
October						A3916100191 ~0470

ROM REPLACEMENT PROCEDURE



1. Turn off the main switch and unplug the machine.
2. Remove the rear cover (6 screws).
3. Replace the ROM on the BCU board.

RUK

April Production

A3916040082	085	111	103	105
106	109	114	151	153
172	184	187	192	197
200	201	204	205	206
238				

May Production

A3916050527	529	530	531	532
533	534	535	593	597
599	621	622	623	624
625	626	627	628	629
630	631	632	633	634
635	636	637	638	640
641	642	643	644	651
653	806	820		

August Production

A3916080201	239	241	243	245
250	253	257	261	263
264	266	268	270	272
274	324	325	328	330
343	348	362	363	364
365	388	410	412	426
428	451	471	498	501
502	503	504	505	506
507	510	511	512	513
515	525	539	540	541

September Production

A3916090167	168	169	170	171
172	173	174	175	176
177	179	180	182	198
199	200	201	216	217
264	266	267	269	284
286	293	298	300	302
324	327	328	329	342

R C

April Production

A3916040001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	

May Production

A3916050001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	099	100	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135
136	137	138	139	140
141	142	143	144	145
146	147	148	149	150
151	152	153	154	155
156	157	158	159	160
161	162	163	164	165
166	167	168	169	170

171	172	173	174	175
176	177	178	179	180
181	182	183	184	185
186	187	188	189	190
191	192	193	194	195
196	197	198	199	200
201	202	203	204	205
206	207	208	209	210
211	212	213	214	215
216	217	218	219	220
221	222	223	224	225
226	227	228	229	230
231	232	233	234	235
236	237	238	239	240
241	242	243	244	245
246	247	248	249	250
251	252	253	254	255
256	257	258	259	260
261	262	263	264	265
266	267	268	269	270
271	272	273	274	275
276	277	278	279	280
281	282	283	284	285
286	287	288	289	290
291	292	293	294	295
296	297	298	299	300
301	302	303	304	305
306	307	308	309	310
311	312	313	314	315
316	317	318	319	320
321	322	323	324	325
326	327	328	329	330
331	332	333	334	335
336	337	338	339	340
341	342	343	344	345
346	347	348	349	350
351	352	353	354	355
356	357	358	359	360
361	362	363	364	365
366	367	368	369	370
371				

June Production

A3916060001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060

061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100

July Production

A3916070001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050

August Production

A3916080001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135
136	137	138	139	140
141	142	143	144	145
146	147	148	149	150
151	152	153	154	155
156	157	158	159	160
161	162	163	164	165

166	167	168	169	170
171	172	173	174	175
176	177	178	179	180
181	182	183	184	185
186	187	188	189	190
191	192	193	194	195
196	197	198	199	200

September Production

A3616090001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135
136	137	138	139	140
141	142	143	144	145
146	147	148	149	150
151	152	153	154	155
156	157	158	159	160
161	162	163	164	165

R E B V

April Production

A3916040083	087	091	092	093
100	101	102	107	108
110	112	113	115	116
118	120	124	126	129
131	132	134	136	137
138	139	140	141	143
144	145	149	150	159
160	161	162	168	169
170	171	173	178	179
180	182	185	186	188
194	195	196	202	203
207	208	209	210	211
214	215	217	220	221
225	226	227	230	231
236	237			

May Production

A3916050105	109	111	112	114
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135
136	137	138	139	140
141	143	205	207	325
327	328	329	330	331
332	333	345	346	349
350	351	352	353	372
373	374	375	376	377
378	379	380	381	382
383	384	385	386	387
388	389	390	391	392
393	394	395	396	397
398	399	400	401	402
403	404	405	406	407
408	409	410	411	412
413	414	415	416	417
418	419	420	421	422
423	424	425	426	427
428	429	430	431	432
433	434	435	436	437
438	439	440	441	442
443	444	445	446	447
448	449	450	451	452
453	454	455	456	457
459	460	461	462	463
465	468	469	470	471
472	473	474	475	476
477	478	479	480	481
482	483	484	485	486
487	488	489	490	491
492	493	494	495	496
497	498	499	500	501

502	503	504	505	506
507	508	510	511	512
513	514	515	516	517
518	519	520	522	524
526	528	550	551	552
553	557	559	561	562
563	564	565	566	567
568	569	570	571	572
573	574	575	576	577
578	579	580	581	582
583	584	585	586	587
588	589	590	591	592
594	595	596	598	600
601	602	603	604	605
606	607	608	609	610
611	612	613	614	615
616	617	618	619	620
639	645	646	647	648
649	650	652	654	655
657	658	659	660	661
662	663	664	665	666
667	668	669	670	671
672	673	674	675	676
677	678	679	680	681
682	683	684	685	686
687	688	689	690	691
692	693	694	695	696
697	698	699	701	702
703	704	705	706	711
712	713	714	715	716
717	718	719	720	721
722	723	724	726	727
728	729	730	739	751
761	781	783	785	786
787	788	789	790	791
792	794	797	799	801
802	803	804	807	808
809	814	815	816	817
818	819	821	822	823
824	825	826	827	828
829	830			

June Production

A3916060101	102	103	104	106
107	108	110	113	115
142	144	146	147	149
154	155	156	157	158
159	160	163	164	165
166	167	168	169	170
171	172	173	178	179
180	182	186	187	188
189	190	191	192	193
194	197	198	199	200
201	202	203	204	206
210	211	213	214	217

218	219	221	222	226
228	233	234	235	236
237	239	240	241	242
243	244	245	246	247
248	249	250	251	252
253	255	256	257	258
259	260	261	262	263
264	265	266	267	268
269	270	271	272	273
274	275	276	277	278
279	280	282	286	289
302	303	304	305	306
307	308	309	310	311
312	313	314	315	316
317	318	319	320	321
322	323	324	326	334
335	336	337	338	340
343	344	347	348	349
350	351	352	353	

July Production

A3916070

051	052	054	055	061
062	063	064	065	067
068	070	075	077	080
083	084	085	086	087
088	092	093	096	098
099	101	102	103	104
105	106	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	136
137	139	140	141	142
143	144	145	146	147
148	149	161	163	164
165	167	168	169	170
178	179	180	181	187
189	190	191	192	193
194	195	196	197	198
199	200	201	202	203
204	205	206	207	208
209	210	211	212	213
214	215	216	217	218
219	220	221	222	223
224	225	226	227	228
229	230	231	232	233
234	235	236	237	238
239	240	241	242	243
244	245	246	247	248
249	250	251	252	253
254	255	256	257	258
259	260	261	262	263
264	265	266	267	268
269	270	271	272	274
275	276	277	278	279

280	281	282	283	284
285	286	287	288	289
290	291	292	293	294
295	296	300	302	303
304	307	310	311	314
317	318	319	322	323
324	325	326	327	328
329	330	331	332	334
335	336	337	338	339
342	343	344	345	346
349	352	354	355	356
357	358	359	360	361
371	372	373	374	375
379	380	381	382	383
384	385			

August Production

A3916080202	203	204	205	206
207	208	209	210	211
212	213	214	215	216
217	218	219	220	221
222	223	224	225	226
227	228	229	230	231
232	233	234	235	236
237	238	240	242	244
246	247	248	249	251
252	254	255	256	258
259	260	262	267	273
275	276	278	279	280
281	282	283	284	285
286	287	288	289	290
291	292	293	294	295
296	297	298	299	300
301	302	303	304	305
306	307	308	309	310
311	312	313	314	315
316	317	318	319	320
321	322	323	329	331
332	333	334	335	336
338	340	342	344	345
346	349	352	356	357
358	381	382	383	384
385	386	387	389	390
391	392	393	395	397
398	399	400	402	404
405	406	407	408	409
411	413	414	415	416
417	418	419	420	421
422	424	425	489	495
496	497	499	500	509
577	578			

September Production

A3916090~~178~~	~~219~~	~~239~~	~~242~~	~~246~~
~~248~~	~~275~~	277	~~278~~	~~279~~

280	281	282	283	285
291	292	294	295	296
297	304	305	307	308
348	390	406	407	408
409	418	419	420	421
424	425	430	431	432
433	434	435	440	441
392	393	398	400	414
415	416	417	422	423
469	540	541	542	543
544	545	546		

GES USA

August Production

93260801	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122			

RFR

April Production

A3916040080	081	084	086	088
089	090	095	097	098
099	104	117	119	121
122	123	125	127	128
130	133	135	142	146
147	148	152	154	155
156	157	158	163	164
165	166	167	174	175
176	177	181	183	189
190	191	193	198	199
212	213	229		

May Production

A3916050464	466	467	656	700
707	708	709	710	725
731	732	733	734	735
736	737	738	740	741
742	743	744	745	746
747	748	749	750	752
753	754	755	756	757
758	759	760	762	763
764	765	766	767	768
769	770	771	772	773
774	775	776	777	778
779	780	782	784	793
795	796	798	800	810
812	813			

June Production

A3916060145	148	150	151	152
153	161	162	174	175
176	177	181	183	184
185	195	196	208	209
220	223	224	225	229
230	231	232	297	354

July Production

A3916070053	056	057	058	059
060	066	069	071	072
073	074	076	078	079
081	082	089	090	091
094	095	097	100	107
130	131	132	133	134
135	138	150	151	152
153	154	155	156	157
158	159	160	162	166
171	172	173	174	175
176	177	182	183	184
185	186	188	273	297
298	299	301	306	309
313	315	316	320	321

August Production

A3916080269	271	326	353	394
396	423	427	429	430
431	432	433	434	436
438	439	440	441	444
447	455	456	460	461
462	463	464	465	466
467	468	470	475	476
477	482	483	484	485
486	487	488	490	491
492	493	494	514	524
526	527	531	532	533
534	535	536	537	538

September Production

A3916090218	220	230	231	232
233	254	255	256	257
259	260	261	262	335
336	337	338	341	344
345	346	347	349	350
351	352	360	361	364
365	369	371	374	375
376	377	379	381	382

October Production

A3916100350	351	353	357	379
382	383	384	385	386
387	389	390	391	392
393	394	395	396	397
398	399	400	401	402
403	404	405	406	407
408	409	410	411	412
413	414	415	416	417
419	420	423	425	446
448	449	452	453	454

R D G

April Production

A3916040094	096	218	219	222
223	224	228	232	233
234	235			

May Production

A3916050458	509	521	523	525
536	537	538	539	540
541	542	542	544	545
546	547	548	549	554
555	556	558	560	811

June Production

A3916060212	215	216	227	238
254	281	283	284	285
287	288	290	291	292
293	294	295	296	298
299	300	301	339	341
342	355			

July Production

A3916070305	308	312	333	340
341	347	348	350	351
353	362	363	364	365
366	367	368	369	370
376	377	378		

August Production

A3916080265	277	327	337	339
341	347	350	351	354
355	359	360	361	366
367	368	369	370	371
372	373	374	375	376
377	378	379	380	401
403	435	437	442	443
445	446	448	449	450
452	453	454	457	458
459	469	472	473	474
478	479	480	481	508
516	517	518	519	520
521	522	523	528	529
530	542	543	544	545
546	547	548	549	550
551	552	553	554	555
556	557	558	559	560
561	562	563	564	565
566	567	568	569	570
571	572	573	574	575
576	579	580		

September Production

A13916090166	181	183	184	185
186	187	188	189	190

191	192	193	~~194~~	195
196	197	202	203	204
205	206	207	208	209
210	~~211~~	212	213	214
~~215~~	221	222	223	224
225	~~226~~	227	~~228~~	~~229~~
238	240	~~241~~	~~245~~	~~250~~
251	252	253	258	~~263~~
265	268	270	271	272
273	274	276	287	288
289	290	299	301	303
306	309	310	311	312
313	314	315	316	~~317~~
~~318~~	319	320	~~321~~	~~322~~
323	~~325~~	~~330~~	~~331~~	~~332~~
333	~~334~~	339	340	343
353	~~354~~	355	~~356~~	357
358	359	362	363	366
367	368	~~370~~	373	~~378~~
380	~~383~~	~~384~~	~~386~~	~~391~~
394	~~396~~	~~397~~	~~402~~	~~403~~
404	426	~~427~~	428	~~429~~
~~436~~	~~437~~	438	439	~~442~~
~~443~~	~~444~~	~~445~~	~~446~~	~~447~~
~~448~~	~~449~~	~~450~~	~~451~~	~~452~~
~~453~~	454	~~455~~	~~456~~	~~457~~
~~458~~	459	~~460~~	~~461~~	~~462~~
~~463~~	~~464~~	~~465~~	~~466~~	~~467~~
~~468~~	~~470~~	471	~~472~~	~~473~~
~~474~~	475	~~476~~	~~477~~	~~478~~
~~479~~	~~480~~	~~481~~	~~482~~	~~483~~
~~484~~	~~485~~	~~486~~	~~487~~	~~488~~
~~489~~	~~490~~	~~491~~	~~492~~	~~493~~
494	~~495~~	496	~~497~~	~~498~~
~~499~~	~~500~~	~~501~~	502	503
504	~~505~~	506	507	~~508~~
509	~~510~~	511	~~512~~	~~513~~
~~514~~	515	~~516~~	~~517~~	~~518~~
~~519~~	520	521	~~522~~	~~523~~
524	~~525~~	~~526~~	~~527~~	~~528~~
~~529~~	~~530~~	~~531~~	~~532~~	~~533~~
~~534~~	~~535~~	~~536~~	~~537~~	~~538~~
~~539~~	~~547~~	~~548~~	~~549~~	~~550~~

October Production

A3916100224	228	236	237	335
346	~~356~~	~~358~~	~~365~~	~~366~~
~~373~~	~~374~~	~~375~~	~~376~~	377
378	380	381	388	~~418~~
~~421~~	422	~~424~~	~~426~~	~~427~~
~~428~~	~~429~~	~~430~~	~~431~~	~~432~~
~~433~~	~~434~~	~~435~~	~~436~~	~~437~~
~~438~~	~~439~~	~~440~~	~~441~~	~~442~~
~~443~~	~~441~~	~~445~~	447	~~450~~
~~451~~	455	~~456~~	457	~~458~~

RDG

~~459~~ ~~460~~ ~~461~~ ~~462~~ ~~463~~
~~464~~ ~~465~~ ~~466~~ ~~467~~ ~~468~~
~~469~~ ~~470~~

N R G I

April Production

9316040006	007	016		021

May Production

9316050038	041	048	050	062
063	064	065	070	071
072	073	079	080	082

June Production

9316060030	040	042	043	045
048	051	053	055	056

July Production

9316070006	007	008	009	011
013	061	082	083	085
086	160			

August Production

9316080006	008	118	121	123
125	148	150	161	163

September Production

9316090006	076	089	090	091
092	106	108	109	111
118	120	121	123	128
129	131	231	263	264
265	117	119		

NRGI

July Production

9316070038	121	123	143	145
146	147	152	153	154
155	156	157		

August Production

9316080120	122	124	144	146
156	158	199	284	285

SAVI US

April Production

3A76040001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025

May Production

3A76050001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125

June Production

3A76060001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025

July Production

3A796070001	003	005	006	008
010	011	012	013	014
015	016	017	018	019
020	021	022	023	024
025	026	027	028	029
030	031	032	033	034
035	036	037	038	039
040	041	042	043	044
045	046	047	048	049
050	051	052	053	054
055	056	057	060	061

062 002 004 007 009
058 059

August Production

3A76080001 002 003 004 005
006 007 008 009 010
011 012 013 014 015
016 017 018 019 020
021 022 023 024 026
027 028 029 030 031
032 033 034 035 036
037 038 039 040 041
042 043 044 045 046
047 048 049 050 051
052 053 054 055 056
057 058 059 060 061
062 063 064 065 066
067 068 069 070 071
073 074 075 076 077
078 079 080 081 082
083 084 085 086 087
090 091 092 093 094
095 096 097 098 099
100 101

September Production

3A76090001 002 003 004 005
006 007 008 009 010
011 012 013 014 015
016 017 018 019 020
021 022 023 024 025
026 027 028 029 030
031 032 033 034 035
036 037 038 039 040
041 042 043 044 045
046 047 048 049 050
051 052 053 054 055
056 057 058 059 060
061 062 063 064 065
066 067 068 069 070
071 072 073 074 075
076 077 078 079 080
081 082 083 084 085
086 087 088 089 090
091 092 093 094 095
096 097 098 099 100
101 102 103 104 105
106 107 108 109 110
111 112 113 114 116
117 118 119 120 121
122 123 124 125 126
127 128 129 130 131
132 133 134 135 136
137 138 139 144 145
146 147 148 149 150

SAVI US

151	152	153	154	155
156	157	158	159	160
161	162	163	164	165
166	167	168	170	173
180	185	186	187	188
190	191	192	193	194
195	196	197	198	198
199	200	201	202	203
204	205	206	207	208
209	210	211	212	213
214	215	216	219	220
221	222	223	224	225

N R G D

April Production

9316040001	002	003	004	005
008	009	010	011	012
013	014	015	017	019
020	022	023	024	025

May Production

9316050001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	039	040	042
043	044	045	046	047
049	051	052	053	054
055	056	057	058	059
060	061	066	067	068
069	074	075	076	077
078	081	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135

June Production

9316060001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	031
032	033	034	035	036
037	038	039	041	044
046	047	049	050	052
054	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
076	077	078	079	080
081	082	083	084	085
086	087	088	089	090
091	092	093	094	095
096	097	098	099	100
101	102	103	104	105
106	107	108	109	110

111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135

July Production

9316070001	002	003	004	005
010	012	014	015	016
017	018	019	020	021
022	023	024	025	026
027	028	029	030	031
032	033	034	035	036
037	039	040	041	042
043	044	045	046	047
048	049	050	051	052
053	054	055	056	057
058	059	060	062	063
064	065	066	067	068
069	070	071	072	073
074	075	076	077	078
079	080	081	084	087
088	089	090	091	092
093	094	095	096	097
098	099	100	101	102
103	104	105	106	107
108	109	110	111	112
113	114	115	116	117
118	119	120	122	124
125	126	127	128	129
130	131	132	133	134
135	136	137	138	139
140	141	142	144	148
149	150	151	158	159

August Production

9316080001	002	003	004	005
007	009	010	011	012
013	014	015	016	017
018	019	020	021	022
023	024	025	026	027
028	029	030	031	032
033	034	035	036	037
038	039	040	041	042
043	044	045	046	047
048	049	050	051	052
053	054	055	056	057
058	059	060	061	062
063	064	065	066	067
068	069	070	071	072
073	074	075	076	077
078	079	080	081	082
083	084	085	086	087
088	089	090	091	092
093	094	095	096	097

098	099	100	101	102
103	104	105	106	107
108	109	110	111	112
113	114	115	116	117
119	126	127	128	129
130	131	132	133	134
135	136	137	138	139
140	141	142	143	145
147	149	151	152	153
154	155	157	159	160
162	164	165	166	167
168	169	170	171	172
173	174	175	176	177
178	179	180	181	182
183	184	185	186	187
188	189	190	191	192
193	194	195	196	197
198	200	201	202	203
204	205	206	207	208
209	210	211	212	213
214	215	216	217	218
219	220	221	222	223
224	225	226	227	228
229	230	231	232	233
234	235	236	237	238
239	240	241	242	243
244	245	246	247	248
249	250	251	252	253
254	255	256	257	258
259	260	261	262	263
264	265	266	267	268
269	270	271	272	273
274	275	276	277	278
279	280	281	282	283

September Production

9316090001	002	003	004	005
007	008	009	010	011
012	013	014	015	016
017	018	019	020	021
022	023	024	025	026
027	028	029	030	031
032	033	034	035	036
037	038	039	040	043
044	045	046	047	049
051	052	053	054	055
056	057	058	059	060
061	062	063	064	065
066	067	068	069	070
071	072	073	074	075
081	082	083	084	085
086	087	088	093	094
095	096	097	098	099
100	101	102	103	104
105	107	110	112	113

114 115 116 122 124
125 126 127 130 132
133 134 135 136 137
138 139 140 141 142
143 144 145 146 147
148 149 150 151 152
153 154 155 156 157
158 159 160 161 162
163 164 165 166 167
168 169 170 171 172
173 174 175 176 177
178 179 180 181 182
183 184 185 186 187
188 189 190 191 192
193 194 195 196 197
198 199 200 201 202
203 204 205 206 207
208 209 210 211 212
213 214 215 216 217
220 221 222 223 224
225 226 227 228 229
230 232 233 234 235
236 237 238 239 240
241 242 243 244 245
246 247 248 249 250
251 252 253 254 255
256 257 258 259 260
261 262 266 267 268
269 270 271 272 273
274 275 276 277 278
279 280 281 282 283

I N F O T E C

April Production

3H90460001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020

May Production

3H90560001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060

June Production

3H90660001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040

July Production

3H90760001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030

August Production

3H9086003	006	008	011	013
019	020	021	022	023
024	028	027	029	030
001	002	004	005	007
009	010	012	014	015
016	017	018	025	026

September Production

3H90960001	002	003	004	005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030

031	032	033	034	035
036	037	038	039	040
041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060

R B M

April Production

A3916040216

NRG Australia

September Production

A133-22

9316090041	042	048	050	077
078	079	080	218	219

A133-27

A3916090234	235	236	237	243
244	247	249	326	372
385	387	388	389	395
399	401	405	412	413

RICOH	Technical Bulletin	No. RTB-006
SUBJECT: Exhaust Air Filter		DATE: January 31, '97 PAGE: 1 of 2
PREPARED BY: E. Fukuyama CHECKED BY: S. Fujii		FROM: 2nd Field Information Dept. QAC
CLASSIFICATION: ☐ Action Required ■ Troubleshooting ☐ Retrofit Information ☐ Revision of service manual ☐ Information only ☐ Other		MODEL: AD3

Problem

Exhaust air from the fusing unit becomes more perceptible when making a lot of continuous copy runs.

Cause

This problem is particularly noticeable in the conditions listed below.
1. When the machine is set up in a small room with poor ventilation.
2. Many continuous copy runs are made.
3. Continuous copies are made of originals with images containing a high percentage of black.

Countermeasure

Please try the measures listed below.

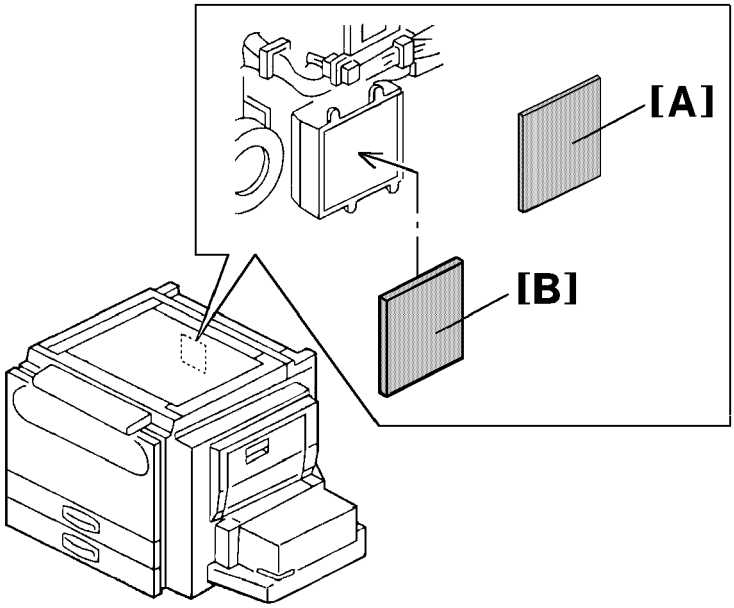
a. Install an exhaust air filter (A130-9014) which has been newly registered as a service part in accordance with the attached installation procedure.

b. Adjust the fusing temperature by using SP1105. Lowering the fusing temperature will decrease the amount of gas present and thus reduce the odor. If the paper used is 20 lbs. or less, please set the fusing temperature to 175. If the paper used is greater than 20 lbs., set the temperature to 175, make a copy and then check the fusing quality of the toner. If the fusing is poor, set the temperature to 180 and then recheck the fusing quality. If there is still a problem with the fusing quality, set the temperature to 185.

c. Use SP2201-1 to lower the Development Bias Voltage to decrease toner supply By lowering the development bias voltage, the toner amount is decreased, leading to a reduction in the odor. Set the voltage to 500V, 450V, and 400V while making copies at each adjustment. Show the copy samples to the user and have the user select the acceptable copy quality. Set the voltage to the level the machine was on when that copy was made. If the user does not find the copy quality of any of the samples to be acceptable, set the voltage to the default level of 550V.

d. If possible, move the machine to into a room with better ventilation.

Install an Exhaust Air Filter



1. Remove the rear cover.
2. Remove the fusing exhaust fan filter [A].
3. Put on the Exhaust Air Filter [B].
4. Put back the rear cover.

RICOH **T**echnical **B**ulletin

Model: Aficio 400	Date: 15-Mar-97	No: 007	1/1
Subject: Hard Disk Failure		Prepared by: E. Fukuyama	
From: QAC 2nd Field Information Dept.		Checked by: S. Fujii	

Classification:

☒ Troubleshooting	☐ Part information	☐ Action required
☐ Mechanical	☐ Electrical	☐ Service manual revision
☐ Paper path	☐ Transmit/receive	☐ Retrofit information
☐ Other ( )		

In the event of hard disk failure, please try the procedures listed below before replacing the part.

SYMPTOM

SC360, SC361 Indication

CAUSE

Hard disk drive broken

PROCEDURE

Please format the hard disk by using SP4911-2 in the Service Program Mode. The capacity of the hard disk has been changed from 1.0 GB to 1.7 GB. Please refer to Modification Bulletin #007 for the details concerning this modification.

The time necessary to format the **1.0 GB hard disk** is approximately **10 seconds** but for the **1.7 GB hard disk** it takes approximately **8 minutes.**

If a Service Code is displayed, and the Service Program Mode cannot be used even if the Main Switch is on, please follow the instructions listed below.

Caution: If the Main Switch is turned off during hard disk formatting, an SC360 error will occur when the Main Switch is turned on. DO NOT turn off the Main Switch while formatting the hard disk.

a. With the power off, turn on Dip Switch 4 on the BCU Board.
b. Turn the power on.
c. Perform the Hard Disc Drive Setting procedure in SP4922-2.
d. After the above step is completed, turn the power off and then switch Dip Switch 4 on the BCU Board back off. If the steps above cannot be completed, please replace the hard disk.

Note: When changing from a 1.0 GB hard disk to a 1.7 GB hard disk, please change the EX-IPU Board ROM to the A1337876 version.

Model: AD3	Date: 15-Jun-97	No: 8
Subject: Hard disk format	Prepared by: E. Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:	☒ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

SYMPTOM

The AD3 does not reset bad sectors when reformatting a 1.7GB hard disk.

CAUSE

This problem was caused by a software bug.

SOLUTION

The ROM on the EX-IPU board has been modified to eliminate formatting problems with the 1.7GB hard disk. The part number of the new ROM is A1337876B.

Please base your decision to reformat or replace the hard disk on the items listed below.

a. Perform the media test using SP4911-1.

b. Use SP4911-7 to check the number of bad sectors.

c. If the number of bad sectors is 51, replace the hard disk.

   If the number of bad sectors is 50 or less, use SP4911-2 to format the hard disk.

d. If you replace the hard disk, use SP4911-6 to reset the bad sector information.

Since the EX-IPU board can only detect up to 51 bad sectors on the hard disk, even if only 51 sectors are indicated, it is possible that the actual number exceeds this.

If there are no bad sectors on the disk, the reformatting process takes approximately 8 minutes. However, if bad sectors are found, the hard disk will transfer data to other sectors on the disk, thus increasing the time necessary for the format. For example, if there are 51 bad sectors the whole process will take about 30 minutes. If there are more than 51 bad sectors, the hard disk will first transfer the data for the first 51 bad sectors before the EX-IPU board attempts to locate the additional bad sectors after which the reformatting begins, adding more time to the overall process. In addition, if a large number of bad sectors were found, more time will be required to reformat as the processing speed will drop when accessing the reformat sectors. If the number of replacement sectors is great, SC361 may occur. Therefore, we suggest that the hard disk be replaced if the number of bad sectors found using SP4911-7 is more than 51.

Model: AD3	Date: 15-Jun-97	No: 9
Subject: ROM modification for the EX-IPU Board	Prepared by: E. Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:			
	☐ Troubleshooting	☒ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

We would like to inform of the modification of the ROM for the EX-IPU Board. The part number of the modified ROM is A1337876 and the suffix is B.

SYMPTOM

1. The 1.7 GB hard disk will not properly format.
2. SC190 displayed when there is a hard disk spindle control error.
3. When a four-sheet original is set in the duplex mode, the 4th original jams in the ADF and the data for the first 3 are erased.

CAUSE

Software bug

1. The hard disk does not read the bad sector information sent to it by the EX-IPU.
2. Incorrect error indication.
3. Software bug

SOLUTION

Modified ROM on the EX-IPU Board from A1337876A to A1337876B.

1. The hard disk will now be able to read bad sector information.
2. The error indication has been changed to SC360.
3. The software was modified.

The new ROM was implemented from the June 97 production run.

Model: AD3	Date: 15-Jun-97	No: 10
Subject: ROM modification for the BCU board	Prepared by: E. Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:

☐ Troubleshooting	☒ Part information	☐ Action required
☐ Mechanical	☐ Electrical	☐ Service manual revision
☐ Paper path	☐ Transmit/receive	☐ Retrofit information
☐ Other ( )		

We would like to inform the history of the ROM modifications for the BCU Board (P/N: A1335104) for your reference.

Suffix E of ROM was used from the January 1997 to the May 1997 production.

The problem arose after the modification from Suffix F to G for the ROM, but this was not installed in any machines.

Suffix H is used from the June 1997 production run.

Suffix D – E

Problem	Countermeasure
In the mixed copy mode, the original is fed from the ADF and copying begins but the machine stops even though “Copying” is displayed.	Paper size detection timing was modified.
After the paper is stacked in the duplex unit, the paper is fed from this unit but the machine stops even though “Copying” is displayed.	Paper end sensor timing was modified.
In the SADF mode, if the number of sheets exceeds the amount that can be stapled, the paper in the staple tray is fed out but due to this timing a jam occurs in the finisher as the next set of originals is set.	The timing for the start of the copy process while the paper is fed out has been modified.
SC401 occurs as the copies are fed from the duplex unit.	The lift timing for the transfer belt has been modified.
Proper adjustment of the stapler (SP6105) is not possible.	Modification of the SP6105 process.
When paper is fed from the ADF and split copies are made, a jam occurs in the ADF. After the jam is reset, the size of the next copy made is incorrect.	When the ADF was opened, the original size was detected. A modification was made so that the original size is also detected when copying resumes after the jam is reset.

Suffix E – F

Problem	Countermeasure
Duplex jam when duplex copies are made with A5 size paper.	The transportation speed for the A5 size paper has been modified. The transport speed until the paper is stacked in the duplex unit is the same as for A4 size paper.

Suffix F – G

Problem	Countermeasure
If the number of copies in one job is large, the copy becomes lighter and SC401 occurs.	When the feedback voltage for the transfer belt power pack exceeds the standard voltage, the power pack monitor counter records the occurrence. When the number of occurrences reaches 8, SC401 occurs. The counter resets at the end of each job but it may reach 8 during longer copy runs. Due to this modification, the counter will now reset after each copy.

Suffix G – H

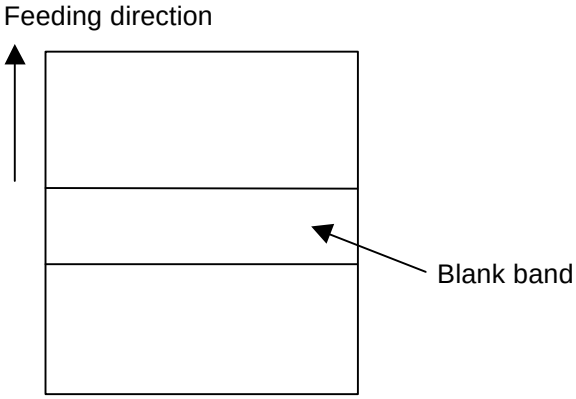
Problem	Countermeasure
There was an error made during the upgrade to the suffix G version. It takes more time for the first copy to be made. (Paper is fed 2-3 seconds after the copy process is started.)	Software modified.

Model: AD3	Date: 31-Jul-97	No: 11
Subject: Partly blank bands	Prepared by: E.Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:			
	☒ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

SYMPTOM

Partly blank bands on copies



CAUSE

Poor contact between the Entrance Guide Plate in the Fusing Guide Plate and the Grounding Brush. In this case, static electricity built up on the Entrance Guide Plate led to a spark and this resulted in noise. This noise was the cause of the blank bands.

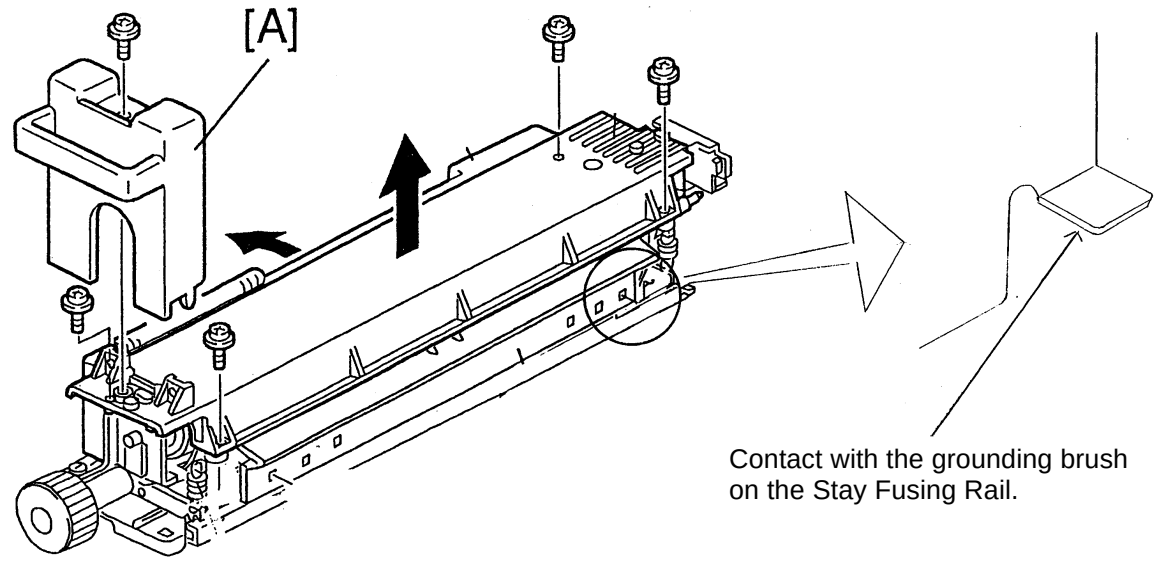
ACTION

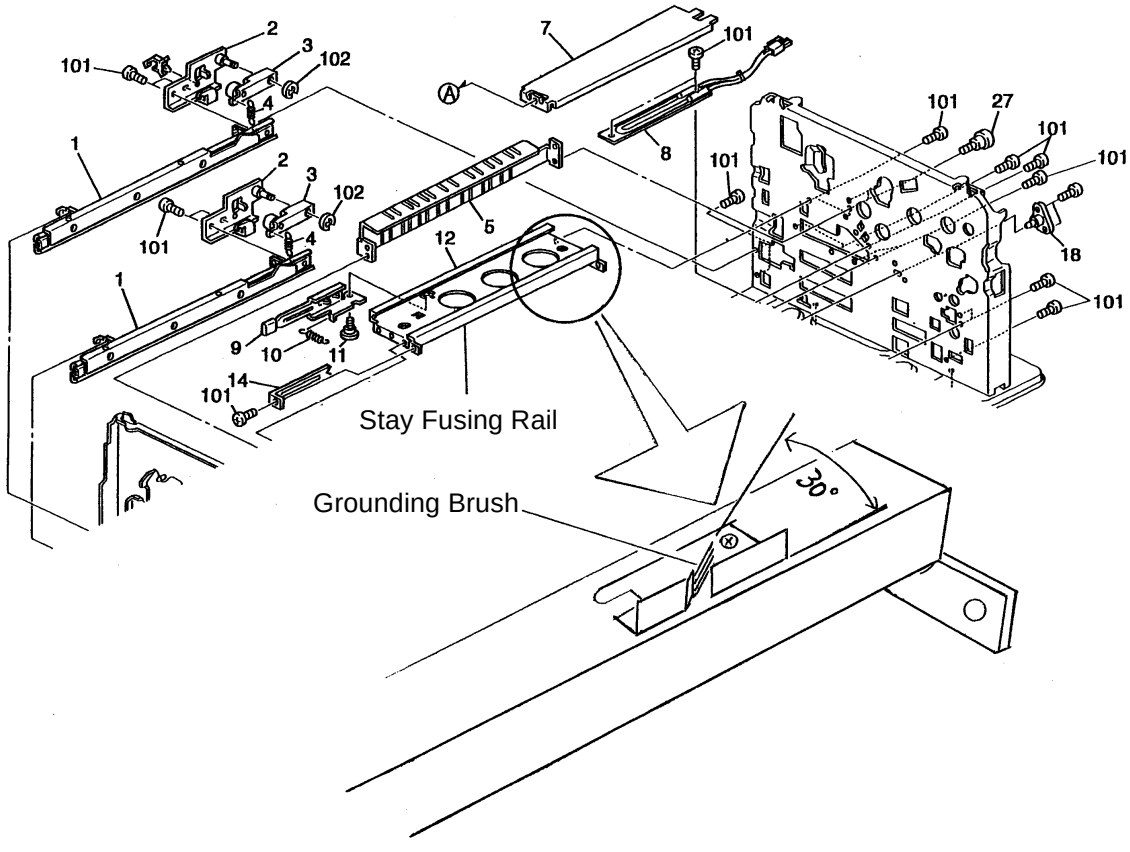
If blank bands appear, we would like you to check the electrical resistance between the Entrance Guide Plate and the Stay Fusing Rail. If the contact between these parts is correct, the electrical resistance should be zero. If this is not case, it means that the parts are not in contact, so we would like you to try the temporary measures listed below.

1. Check to see if the Grounding Brush is deformed. If so, please fix it.
2. The Grounding Brush is bent at a 30-degree angle. To improve contact between these parts, please adjust the angle to 40 degrees.

Note

MB #21 gives a countermeasure to prevent this problem and the new part number of the Polygon Mirror Motor. At that time, we presumed that noise affects the operation of the polygon mirror motor, however, we had not found the source of the noise. After more tests, we finally found the real cause of the noise as described above.
Please check the condition of the Grounding Brush first when the “Partly Black Band” problem appears.


[A]
Contact with the grounding brush on the Stay Fusing Rail.


Stay Fusing Rail
Grounding Brush
30°

Model: AD3	Date: 31-July-97	No: 12
Subject: ROM modification for the SCU Board	Prepared by: E. Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:

- ☐ Troubleshooting
- ☐ Part information
- ☐ Action required
- ☐ Mechanical
- ☐ Electrical
- ☐ Service manual revision
- ☐ Paper path
- ☐ Transmit/receive
- ☐ Retrofit information
- ☐ Other ( )

The modifications to the ROM for the SCU Board are as follows.

The new ROM has been used from the June production run.

Problem	Countermeasure
If copies are made with Auto Magnification Set + Staple + Mixed Copy, all copies will be made with the same magnification level as that of the first original.	Modified software
The enlargement/reduction key cannot be used while waiting for the second side when making duplex copies.	Modified software
Modification of Energy Star specifications.	The maximum for the Auto-reset and the Low Power Timer has been set to 240 minutes.
No double count for A3 size paper with the Key Counter.	The double count is now possible with the Key Counter.
Error in Finnish translation.	The names of the component functions and the alarm indication for incorrect fusing unit setting have been corrected.
Legal size paper cannot be used in the by-pass tray.	SP mode SP1900 was added. When the side fence for the by-pass tray is set to 8 ½", letter and legal size paper can be selected.

Note for : This modification was implemented only in the North American machines. (Product Code: A133-10, 15, 17) To enable this function, the 3 ROMs for the SCU Board (Copy 1, Copy 2, MSIS) and the BCU Board ROM (P/N: A1335104H) must be replaced at the same time.

When replacing the 3ROMs, please replace them with the applicable combination shown in the chart below.

Product Code	Language	ROM : Copy1	ROM : Copy 2	ROM : MSIS
A133-10, 15, 17	English	A1337717D	A1337720D	A1337723D
A133-22, 29	English	A6145102D	A6145103D	*1 (A6145101C)
A614-01	English	A6145102D	A6145103D	*1 (A6145101C)
A614-02	German	A6145132E	A6145133E	*1 (A6145131C)
A614-03	French	A6145162D	A6145163D	*1 (A6145161C)
A614-04	Italian	A6145202D	A6145203D	*1 (A6145201C)
A614-05	Swedish	A6145232D	A6145233D	*1 (A6145231C)
A614-06	Spanish	A6145262C	A6145263C	*1 (A6145261B)
A614-07	Dutch	A6145302D	A6145303D	*1 (A6145301C)
A614-08	Danish	A6145332C	A6145333C	*1 (A6145331B)
A614-09	Norwegian	A6145362D	A6145363D	*1 (A6145361C)
A614-10	Portuguese	A6145402B	A6145403B	*1 (A6145401A)
A614-11	Polish	A6145432B	A6145433B	*1 (A6145431A)
A614-12	Czech	A6145462B	A6145463B	*1 (A6145461A)
A614-13	Hungarian	A6145502B	A6145503B	*1 (A6145501A)
A614-14	Finnish	A6145532B	A6145533B	A6145531B

*1 : The ROM firmware was not changed as a result of this modification.

Model: AD3	Date: 31-Aug-97	No: 13
Subject: Service Manual Correction	Prepared by: E.Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:

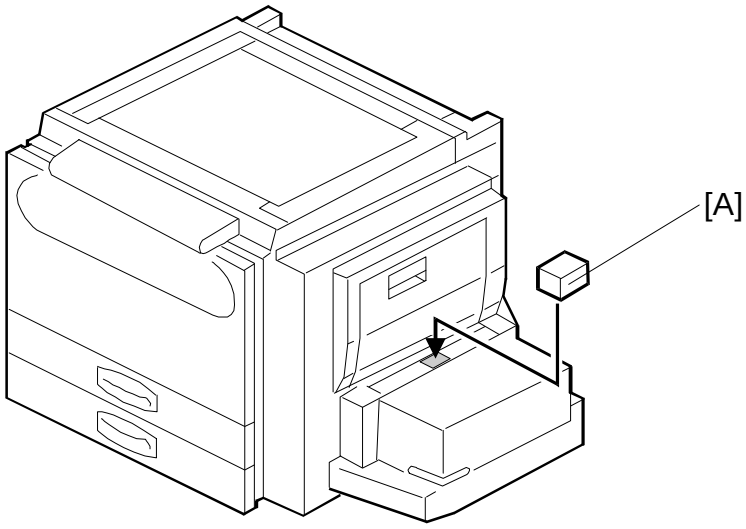
☐ Troubleshooting	☐ Part information	☐ Action required
☐ Mechanical	☐ Electrical	☒ Service manual revision
☐ Paper path	☐ Transmit/receive	☐ Retrofit information
☐ Other ( )		

Insert the following step after step 31 of the AD3 installation procedure.

This sponge [A] is provided to prevent paper from entering the gap between the LCT cover and the by-pass tray cover, when paper is put on the LCT cover.

Please attach the sponge [A] to the upper stay on the LCT as shown below.

Installation Step after Step 31



A217I524.CDR

Model: AD3	Date: 31-Aug.-97	No: 14
Subject: Interchangeability of Hot Roller & Gear	Prepared by: E. Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:

☐ Troubleshooting	☒ Part information	☐ Action required
☐ Mechanical	☐ Electrical	☐ Service manual revision
☐ Paper path	☐ Transmit/receive	☐ Retrofit information
☐ Other ( )		

The shapes of the shaft on the hot roller and the gears have been changed.

The shaft on the hot roller and the gears inserted upon it each had one flat spot, which drove the hot roller. However, an increase in the load on the hot roller put more pressure on the flat spot of the gears and sometimes led to damage to the gear.

Therefore, to distribute the pressure and prevent damage to the gears, the shapes of the shaft and the gear have been changed so that there are now two flat spots.

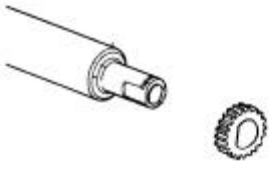
These new parts were implemented from the November 1996 production run.

The interchangeability for the old and new parts is shown below. When replacing the gears on a machine with the old hot roller, please replace the hot roller with a new one at the same time.

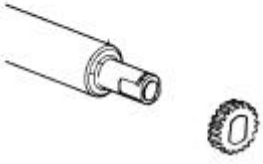
Hot Roller and Gear Compatibility

	Old Gear	New Gear
Old Hot Roller	O	X
New Hot Roller	O	O

Old part number	New part Number	Description	Qty	Page	Index	Note
AE011036	AE011036	Hot Roller	1	54	19	
AB013985	AB013985	Gear – 40T	1	54	20	



OLD



NEW

Model: AD3	Date: 15-Sep-97	No: 15
Subject: Transfer Belt was damaged	Prepared by: E.Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:			
	☒ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

SYMPTOM

The transfer belt moves to the front or rear of the transport assembly, causing partially blank copies and noise.

CAUSE

The cleaning blade is mounted on the bracket with glue, and normally a fair amount of that glue is squeezed out from under the blade. If the amount of glue is excessive, a lot of glue is squeezed out. The glue which is squeezed out hardens when dried, and sustains the blade. This makes the blade contact the belt with more pressure and unevenly, resulting in the belt moving to the front or rear. At the end, the belt comes in contact with the cover of the unit and this may cause the belt to bend, leading to the damage observed.

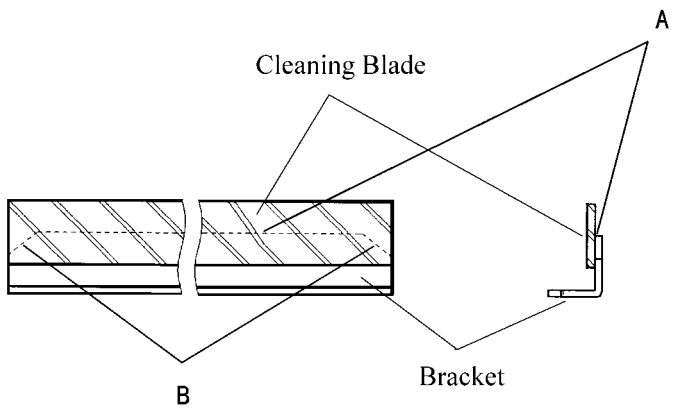
COUNTERMEASURE

A modification has been made so that the amount of glue that is squeezed out from under the blade has been reduced from less than 1.0 mm to 0.5 mm. (Please refer to illustration A)

The amount of glue is limited to less than 1.5 mm as shown in illustration B. This modification was implemented starting from the July production run.

ACTION

When the Transfer Belt is damaged, replace the Transfer Belt and Cleaning Blade at the same time.



Model: AD3	Date: 15-Sep-97	No: 16
Subject: ROM Modification for the SCU Board	Prepared by: E.Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:

☐ Troubleshooting	☒ Part information	☐ Action required
☐ Mechanical	☐ Electrical	☐ Service manual revision
☐ Paper path	☐ Transmit/receive	☐ Retrofit information
☐ Other ( )		

This RTB describes the modifications of the ROM for the SCU Board.

The new ROM had been used from January to May production.

As noted in RTB #12, starting from the June production run, a newer version of the ROM has been implemented on the production line. The history of the ROM modifications prior to the one listed in RTB #12 was omitted, so we would like to provide that information at this time.

Problem	Countermeasure
If the machine is set in repeat mode but documents are not set and the start key is pressed, the key turns red and a warning is displayed. If documents are then set in the ADF, the warning is no longer displayed but the start key does not turn back to green.	Modified software
If a DF jam occurs in the two in one mode, SC392 is displayed after jam recovery.	Modified software
If the start key is pressed after a jam in the duplex unit is removed, SC392 is displayed.	Modified software
If paper end occurs after the first set of documents has been sorted in the two in one mode, SC392 is displayed when the start key is pressed after paper has been added.	Modified software
While making one-sided copies (series copies), after the first original (left side), if the # key is pressed to cancel the job, when the start key is pressed next, the machine continues from the middle of the previous printing job.	In the making one-sided copies mode, while the right side is being read, the # key is not active.
If a job is canceled in the ADF mode, the next copy cannot be made in the SADF mode.	Modified software

When in the ADF and duplex modes, if a jam occurs after a blank sheet is fed out, the copy process does not stop during jam recovery	Modified software
After using the by-pass tray, even if the by-pass tray is closed, the by-pass tray remains selected.	The priority tray can now be selected.
If a jam is removed when an interrupt copy is being made, the selected tray changes.	Modified software
When an exit jam occurs with mixed copies in the duplex mode, mixed copies cannot be made after jam recovery.	Modified software
If the stop key is pressed after the top copy has been made in the ADF and duplex modes, even if the # key is pressed and a blank copy comes out of the machine, the document cannot be fed out.	Modified software
The Service Telephone Number is not displayed when “the used toner tank is full” is indicated.	The Service Telephone Number is now displayed.
Parts of the displays in the Danish language ROM are in English.	The following displays have been changed to Danish. 1. Please remove the paper from the staple tray. 2. The Yes/No at MSU clear.
Parts of the displays in the Spanish language ROM are in English.	The Yes/No at MSU clear has been changed to Spanish.
In the German language ROM, the message at staple end was mistranslated to “cancel”.	The mistake in the German translation has been corrected.
	Three parts of the Swedish language ROM have been corrected.
	64 parts of the Danish language ROM have been corrected.

Model: AD3	Date: 15-Sep-97	No: 16

When replacing the 3 ROMs, please replace them with the applicable combination shown in the chart below.

Product Code	Language	ROM : Copy1	ROM : Copy 2	ROM : MSIS
A133-10, 15, 17	English	A1337717C	A1337720C	A1337723C
A133-22, 29	English	A6145102C	A6145103C	A6145101C
A614-01	English	A6145102C	A6145103C	A6145101C
A614-02	German	A6145132D	A6145133D	A6145131C
A614-03	French	A6145162C	A6145163C	A6145161C
A614-04	Italian	A6145202C	A6145203C	A6145201C
A614-05	Swedish	A6145232C	A6145233C	A6145231C
A614-06	Spanish	A6145262B	A6145263B	A6145261B
A614-07	Dutch	A6145302C	A6145303C	A6145301C
A614-08	Danish	A6145332B	A6145333B	A6145331B
A614-09	Norwegian	A6145362C	A6145363C	A6145361C

Model: AD3	Date: 15-Sep-97	No: 17
Subject: Service Manual Correction	Prepared by: S.Tomoe	
From: QAC 2nd Field Information Dept.		

Classification:

☐ Troubleshooting	☐ Part information	☐ Action required
☐ Mechanical	☐ Electrical	☐ Service manual revision
☐ Paper path	☐ Transmit/receive	☐ Retrofit information
☒ Other ( )		

1. The following SP modes should be corrected.

- Incorrect -

Mode No.			**Settings**
Class 1	Class 2		
2301	1	Transfer Current Adjustment (1st side of the paper)	10 ~ 60 1μA/Step **32μA**
2301	2	Transfer Current Adjustment (2nd side of the paper)	10 ~ 60 1μA/Step **32μA**

- Correct -

Mode No.			**Settings**
Class 1	Class 2		
2301	1	Transfer Current Adjustment (1st side of the paper)	10 ~ 60 1μA/Step **40μA**
2301	2	Transfer Current Adjustment (2nd side of the paper)	10 ~ 60 1μA/Step **40μA**

- Incorrect -

Mode No.		**Function**	**Settings**
Class 1	Class 2		
2902	2	*This SP mode is useful for finding…. If the printout is OK, the **EX-IPU** is defective. If the printout is not OK, the **printer** is defective.*	

- Correct -

Mode No.		Function	Settings
Class 1	Class 2		
2902	2	*This SP mode is useful for finding if the EX-IPU is OK.* *If the printout is not OK, the **EX-IPU** is defective.*	

2. The following SC code should be corrected.

SC101: Lamp regulator error

- Definition - [S] → - Definition - [**A**]

Model: Finisher for the AD3	Date: 30-Sep-97	No: 18
Subject: SC101	Prepared by: E.Fukuyama	
From: QAC 2nd Field Information Dept.		

Classification:	☒ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

For the machines on which the Finisher is installed, if a large amount of copies is made right after power-up, SC101 may occur. If SC101 occurs, please replace the Entrance Guide with part number A6122333. The installation procedure for the Entrance Guide is shown on the next page.

Symptom

SC101 occurs.

Cause

If the Entrance Guide is not installed in the proper position, a gap may develop between the Cover and the Main Frame through which the heat and humidity generated by the paper may enter and lead to high temperature/high humidity around the lamp stabilizer.

Countermeasure

SR700 MBs 8 and 9 provide information concerning the change in shape of the Entrance Guide. Please refer to these MBs for further details concerning this modification.

ACTION

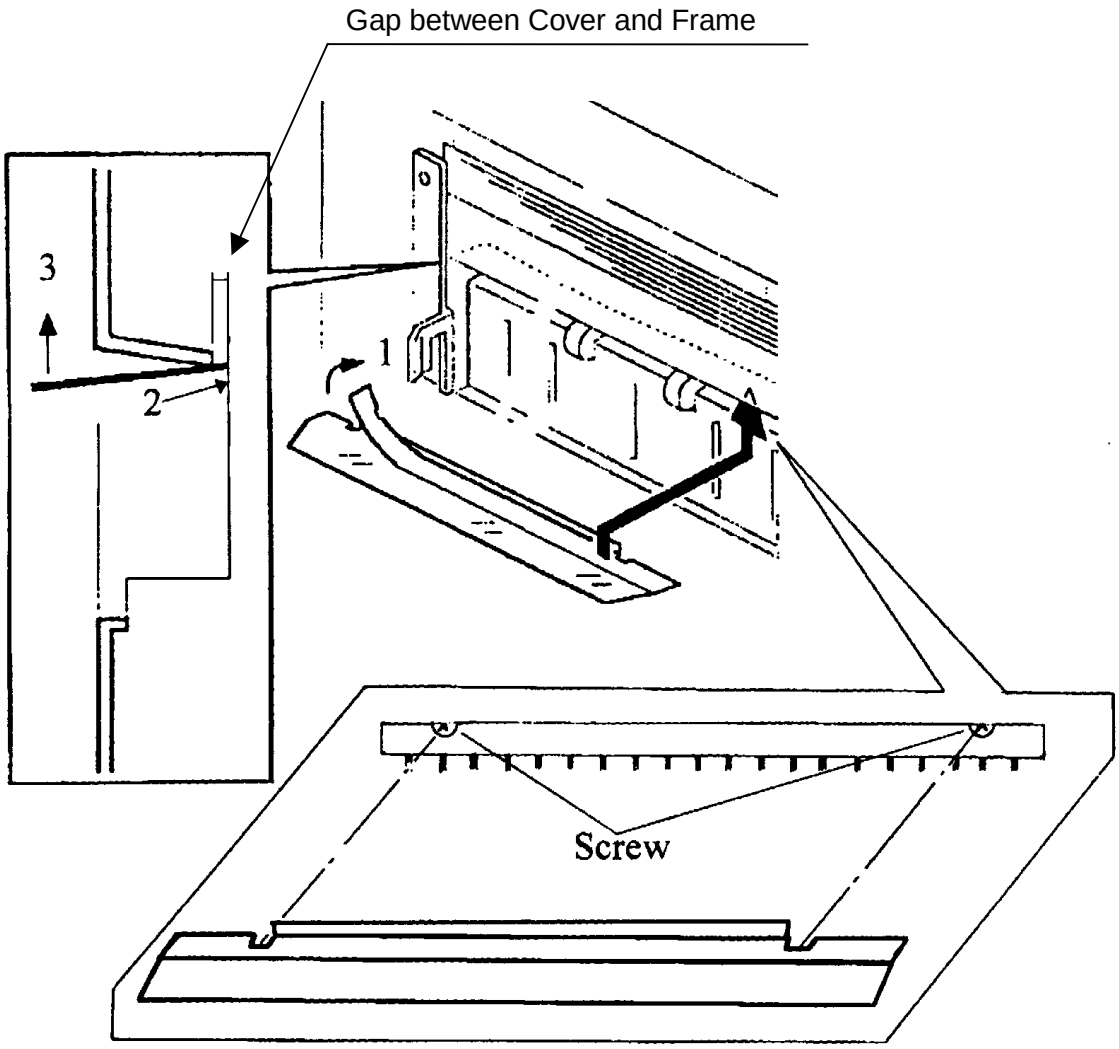
During the set-up of a Finisher manufactured after May 1997, please install the Entrance Guide in a manner that will prevent a gap from developing between the Cover and the Main Frame. Please refer to the attached page for this procedure.

In the event of an SC101 on a Finisher manufactured before April 1997, please replace the Entrance Guide with part number A6122333.

Model: Finisher for the AD3	Date: 30-Sep-97	No: 18

Entrance Guide Installation Procedure

1. Peel off the tape seal for the Entrance Guide
2. Place the Entrance Guide on the Main Frame.
3. Attach the Entrance Guide to the Cover



New Entrance Guide

Model: AD3	Date: 15-Nov-97	No: 19
Subject: Toner Type 10D and 11D	Prepared by: E.Fukuyama	
From: QAC Field Information Dept.		

Classification:			
	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☒ Other ( )		

Starting from the August 1997 production run, the toner has been modified in response to the odour problem. The lot numbers for the start of the new toner are as follows:

Toner Type 10D : from 7K22502.
Toner Type 11D : from 7K22602.

Due to the new toner modification, the new toner bottles have been changed in the following manner so that the two can be told apart.
a. There is a black dot on the carton box and the toner bottle next to where the components are listed.
b. 86 is printed next to where the components are listed on the carton box and the toner bottle. (99 is printed on the old bottles.)

RTB Correction

Reissue date: **30-Apr-98**

The items in bold italics have been corrected or added.

An illustration has been added.

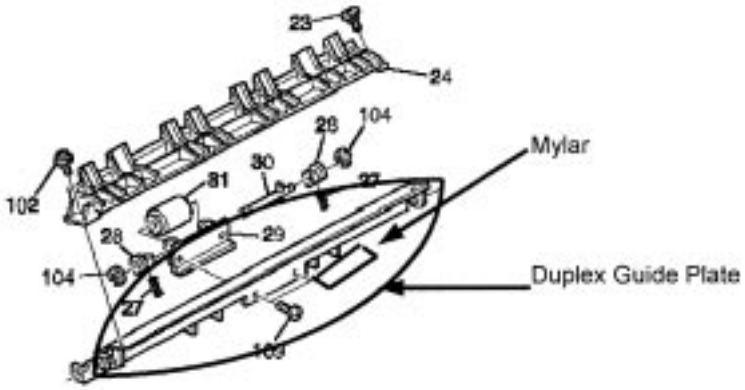
Model: AD3		Date: 15-Apr-98	No: 20
Subject: Duplex Jam		Prepared by: A.Sasaki	
From: QAC Field Information Dept.			
Classification:	☒ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

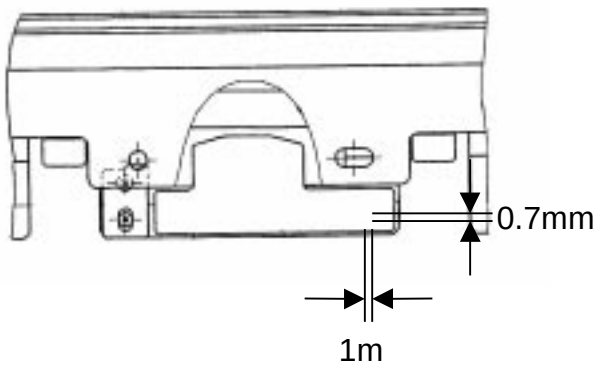
SYMPTOM

1. During paper feed from the duplex unit, the leading edge of the paper is bent or a no-feed jam occurs.
2. During stacking in the duplex unit, a stacking jam occurs.

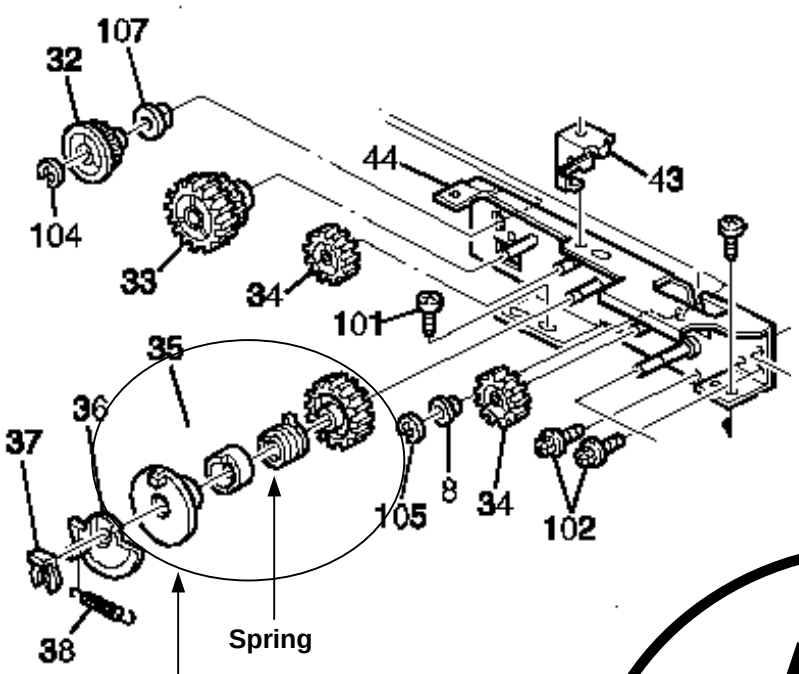
ACTION

1. Paper feed jam (leading edge bent or non-feed)
   1) Check to see if the duplex guide mylar is set properly. If it is bent or out of position, please replace ***the duplex guide mylar (A1344670) or*** the duplex guide plate ***(A1344662).***
   Method: Rotate the feed roller by hand. If it makes a clicking sound it is OK.
   (If the mylar is bent or out of position, the leading edge of the copy may be bent or no-feed jams may occur.)
   Reattaching the mylar (as shown below) is a temporary countermeasure. As a permanent countermeasure, the duplex guide plate should be replaced.

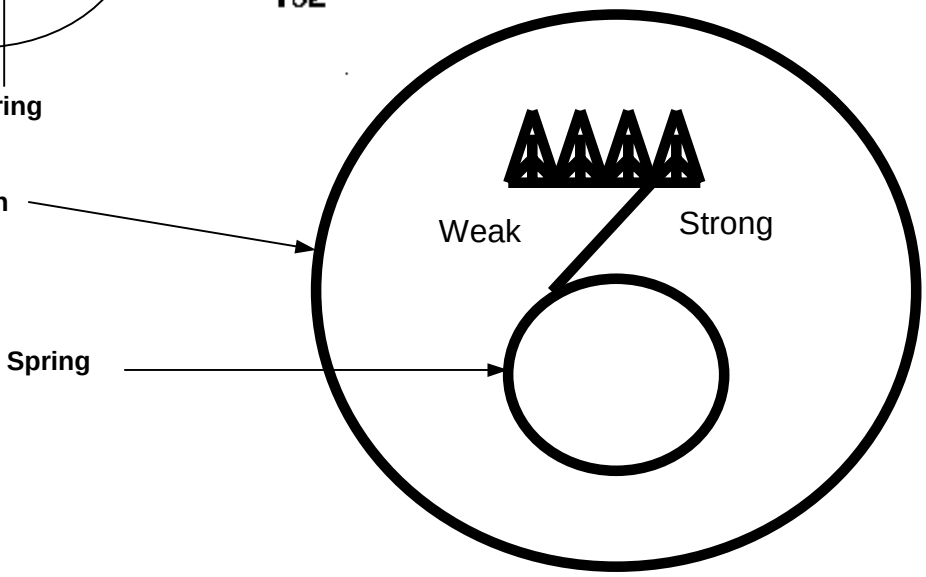




2) If 1) does not solve the problem, change the position of the spring in the spring clutch to increase the pressure on the bottom plate, or replace the spring clutch.
   - By adjusting the spring setting, the pressure on the bottom plate in the duplex unit increases. The stronger it is set, the more effective it is.
     (If the pressure on the bottom plate is insufficient, no-feed paper jams may occur.)



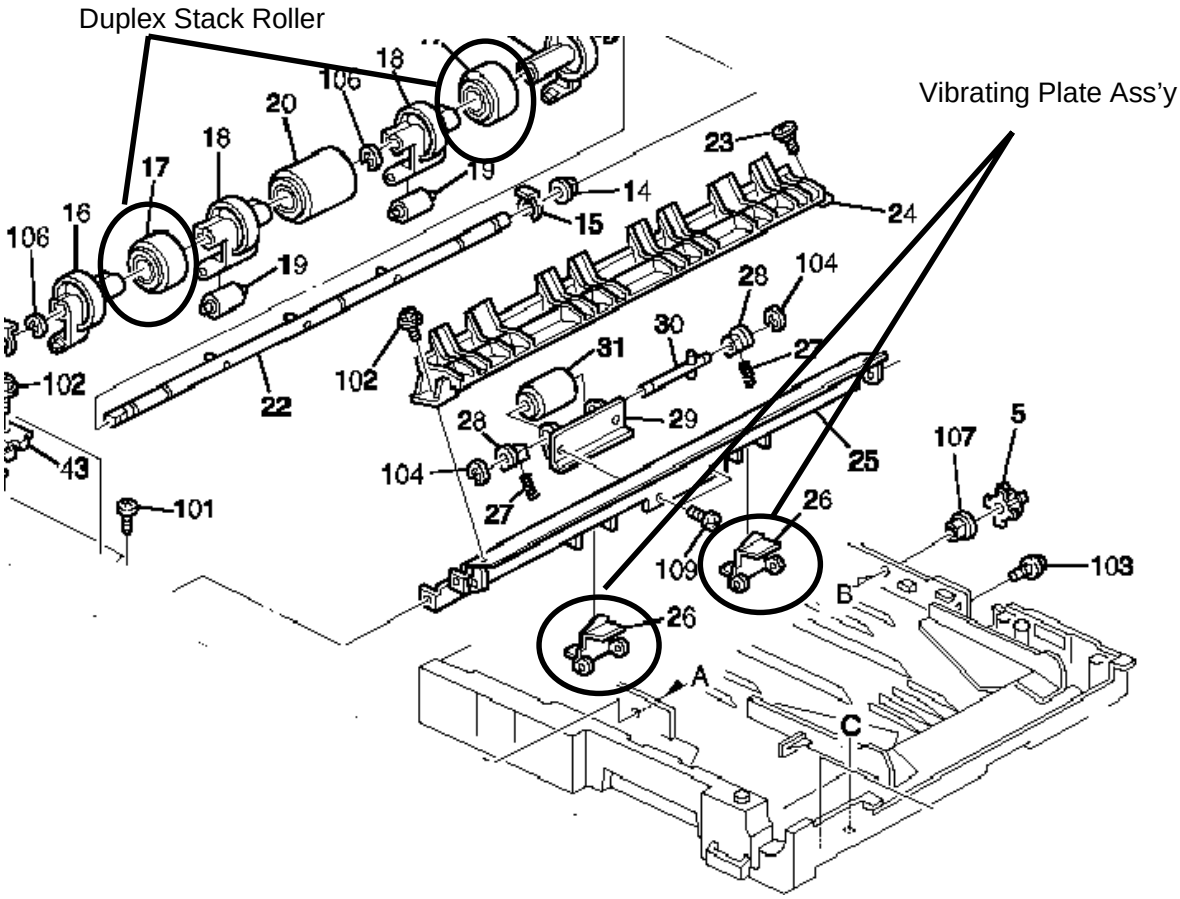
There are 3 settings for the spring. The one on the right is the strongest.



Spring clutch as viewed from the rear of the unit

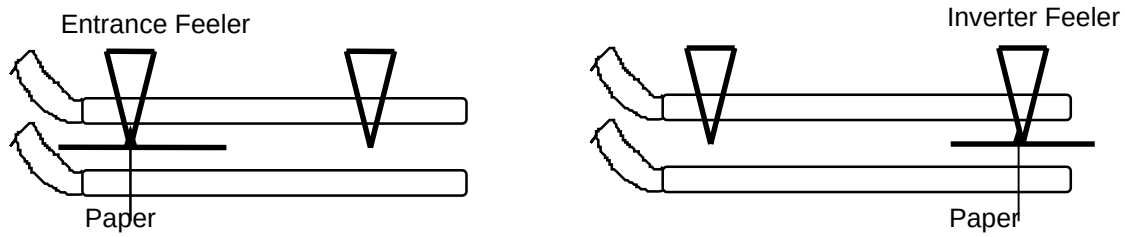
3) If 2) does not solve the problem, change the spring clutch (P/N AB040015) to a modified one (P/N AB040017). (Refer to an MB for the details of the modification.)

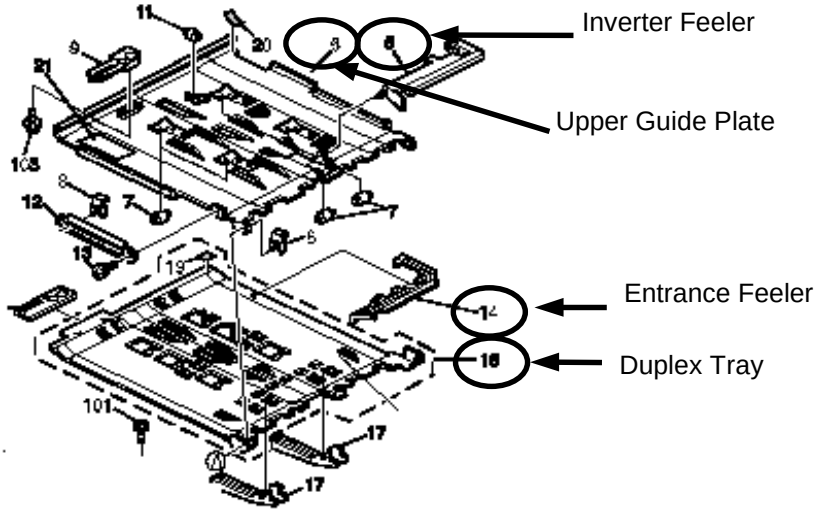
2. Stacking Jams
   1) Check the condition of the mylar setting on the vibrating plate ass'y. If it is bent or damaged, replace the vibrating plate ass'y (A1544626)
   Rotate the duplex stack roller. If it makes a clicking sound, it is OK.
   (If the mylar is bent or damaged, stack jams may occur.)



2) Check to see if the upper guide plate (A13444732) or the duplex tray are deformed. If so, replace the parts.
Check procedures: Pull out the duplex unit and put paper in between the upper guide plate and the duplex tray as shown below. Next, insert the tray and note whether or not duplex jam is indicated. If it is, then it's OK. (This checks the inverter feeler detector and the entrance feeler detector.)
- Please inform the users that they should pull out the duplex unit all the way when removing paper when a jam occurs. If the duplex unit is only pulled out part way, this may lead to deformation of the upper guide plate and the duplex tray.

- Duplex Jam indicated = OK -





3) Check to see if there is enough grease on the SP clutch.
∗Grease should be added at the 120K PM visit. Grease: Mobil Temp 78.
Lack of grease may result in stack jams.

Model: AD3	Date: 15-Sep-98	No: 21
Subject: Service Manual Correction	Prepared by: E. Fukuyama	
From: QAC Field Information Dept.		

Classification:			
	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☒ Other ( )		

We found the following incorrect information in the service manual for the Aficio 400. Please correct your service manual.

SC 501-504, on page 6-9.

Incorrect	Correct
SC501 : Main body tray lift motor malfunction	**SC502** : Main body tray lift motor malfunction
SC502 : Paper tray unit 1st tray lift motor malfunction	**SC503** : Paper tray unit 1st tray lift motor malfunction
SC503 : Paper tray unit 2nd tray lift motor malfunction	**SC504** : Paper tray unit 2nd tray lift motor malfunction
SC504 : Paper tray unit 3rd tray lift motor malfunction	**SC505** : Paper tray unit 3rd tray lift motor malfunction

Model: AD3	Date: 30-Apr-99	No.: RA133022

Subject: Scanned Image in the Hard Disk	Prepared by: E. Fukuyama
From: Technical Service Dept., GTS Division	

Classification:			
	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☒ Other (Software explanation)		

We sometimes receive enquiries concerning the memory deletion in the hard disk when copies are made using digital copiers.

Certainly, some customers may be worried that the scanned original image stored in the hard disk can be recalled by someone else.

Please explain to customers when required.
In the copy mode, when an original is scanned, the scanned original is stored as an image on the hard disk.
The stored image on the hard disk is deleted when the job is completed (when the Start key turns green for the next job).

Model: AD3, SP3 and AD50	Date: 09-Jul-01	No.: RA133023

Subject: SC341	Prepared by: E. Fukuyama
From: Technical Services Dept., GTS Division	

Classification:	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☒ Other ( )		

Please add the following to your service manuals:

SC341: Development Motor Lock

- Definition - [B]

The development motor lock signal remains high (unstable rotation) for 1 second or longer.

- Possible causes -

- Too much load on the drive mechanism
- Development motor defective