

SB Number:	SB 2AV-033	Issue Date: 28/08/2002
Subject:	Permanent measure for bypass clutch 'overrun'	
Model:	KM-1530 / 2030, KM-1525	

Please refer to **SB 2AV-031** for details about the field measure for this phenomenon.

Phenomenon

No paper feeding through bypass. When feeding paper through the bypass, the bypass feeding pulley may not rotate. As a result, the bypass clutch does not move and the paper is not fed through.

Cause

If the bypass clutch does not stop after one complete rotation and 'overruns', the edge spring inside the clutch expands and blocks the clutch.

Permanent Measures

1. Preventing paper misfeed

- Shape change of 'PULLEY BYPASS' from semicircle type to round type.

If paper slips while feeding, it cannot be fed to the secondary feed section due to the semicircular shape of 'PULLEY BYPASS'. Thus, the shape of the pulley has been changed to a round type.

- 'One way bearing' in 'PULLEY BYPASS'

In compliance with the shape change of the pulley, the one way bearing has been changed to a 'built-in' type so that the 'PULLEY BYPASS' does not pass on its load to secondary paper feed stage. With the one way bearing, the clutch does not lock even if jammed paper on bypass section is removed from paper conveying cover side.

Please refer to **SB 2AV-031**

2. Improvement of thick paper (160g) feed performance

Silicon rubber has been added to both ends of 'SHEET, BYPASS'.

The cutting edge of thick paper may catch behind 'SHEET, BYPASS', causing paper feed problems. Therefore, silicon rubber has been added so that thick paper is fed more smoothly.

3. Prevention of unusual noise

'SLIDER, BYPASS PAD' added.

An unusual noise may be heard when paper is fed. The noise is caused by vibration of 'SHEET, BYPASS' and 'MOUNT BASE, BYPASS PAD'. The 'SPACER, BYPASS PAD', attached to both ends of the 'MOUNT BASE, BYPASS PAD', has been changed to a more effective sliding type.

4. Discontinuance of parts / shape modification

In compliance with above changes 1 to 3, below parts have been discontinued.

'COLLAR A/B/C, BYPASS PAPER FEED',
'SHEET B, BYPASS',
'FRONT FILM, BYPASS PAD',
'SPACER, BYPASS PULLEY'

- In compliance with discontinuation of 'COLLAR C, BYPASS PAPER FEED', the shape of the 'COVER BYPASS' has been changed.
- In addition, in compliance with discontinuation of 'COLLAR C, BYPASS PAPER FEED', a guide for paper insertion has been added.

Field Measure

If the phenomenon arises, please replace old parts with changed parts. Replace all changed parts at the same time. Please pay special attention to 'COMPATIBILITY' notes on next page.

Affected Machine Serial Numbers:

KM-1530: 37043691 and later
KM-2030: from 37067317 to 37067916,
from 37068317 to 37068916, 37069117 and later
KM-1525: X3017220 and later

Parts Table

No.	Part No. OLD	Part No. NEW	Description	Q'ty old-new		Interchange- ability		Notes
<u>Pulley section</u>								
1	2AV06320	2BV06080	PULLEY, BYPASS	1	1	X	X	* 1
2	2AV06110	2BV06070	SHAFT, BYPASS	1	1	X	X	* 1
3	---	34806480	STOPPER 6	-	2	-	X	* 1
4	B1303080	---	BINDING SCREW BVM3X8 (BLACK)	2	-	X	-	* 1
5	2AV06460	---	SPACER, BYPASS PULLEY	1	-	X	-	* 1
<u>Pad section</u>								
6	2AV93180	2BV93010	PARTS, BYPASS PAD ASS'Y (SP)	1	1	X	X	* 2
7	2AV06160	---	+ SHEET, BYPASS	1	-	X	-	* 1
8	2AV06150	---	+ MOUNT BASE, BYPASS PAD	1	-	X	-	* 1
9	2AV06230	2BV06040	SPRING, PAD HOLDER	1	1	X	O	* 3
<u>Others</u>								
10	2AV06171	2AV06172	COVER, BYPASS	1	1	X	O	* 3
11	2AV06180	-----	COLLAR A, BYPASS PAPER FEED	1	-	X	-	
12	2AV06190	-----	COLLAR B, BYPASS PAPER FEED	1	-	X	-	
13	2AV06200	-----	COLLAR C, BYPASS PAPER FEED	2	-	X	-	
14	2AV06330	-----	SHEET B, BYPASS	4	-	X	-	
15	2AV06340	-----	FRONT FILM, BYPASS PAD	4	-	X	-	
16	2AV06450	-----	SPACER, BYPASS PAD	2	-	X	-	

The following 'Set parts' contains parts number 1, 2,3,6,9 and 10:

'SET, PULLEY / PAD BYPASS (2BV)': P/N = **2BV69700**

NOTES ABOUT COMPATIBILITY

* 1: old part and new part are not interchangeable

Please use new part on new type machine and use old part on old type machine.
When using new part on old type machine, then replace all parts at the same time.

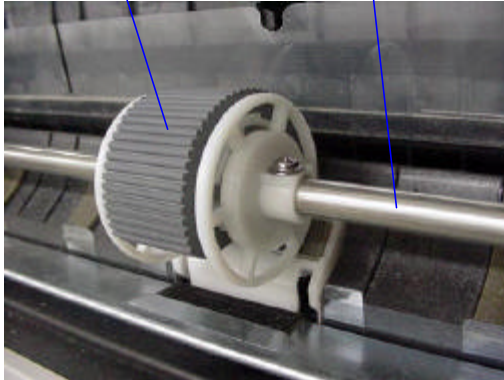
* 2: old part and new part are interchangeable

It is highly recommended to use new parts on new type machines and old parts on old type machines, otherwise quality cannot be guaranteed. When using new parts on old type machine, then please replace all changed parts as a set.

* 3: New part can be used on old type machine. Old part can however not be used on new type machine, since performance will decrease.

1. Shape change 'PULLEY BYPASS' from semicircle to round type.
One way bearing built in 'PULLEY BYPASS'.

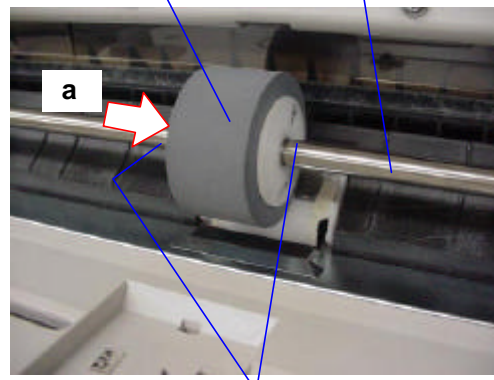
OLD 'PULLEY, BYPASS'




OLD 'SHAFT, BYPASS'

NEW 'PULLEY, BYPASS'

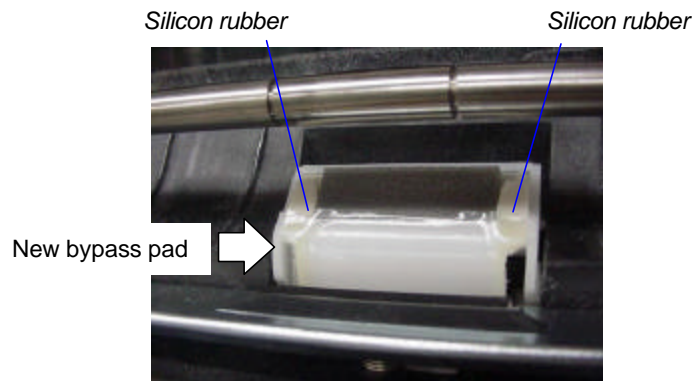
NEW 'SHAFT, BYPASS'



'STOPPER 6' added (Q'ty: 2)

Attach new 'PULLEY, BYPASS' so that the one way arrow mark () faces to the rear side of machine ("a" side).

2. Silicon rubber added to both ends of 'SHEET, BYPASS'.



3. 'SLIDER, BYPASS PAD' added (unusual noise).

'SPACER, BYPASS PAD discontinued (both ends)

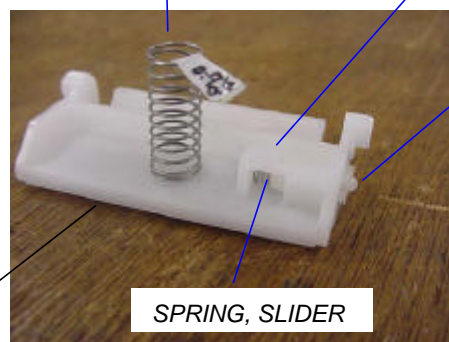
Old bypass pad



view of bottom of
new bypass pad.

'SPRING, PAD HOLDER'

'HOLDER, BYPASS PAD'



'SLIDER, BYPASS PAD'

Slider is moved by
spring to secure the
proper clearance.

SPRING, SLIDER

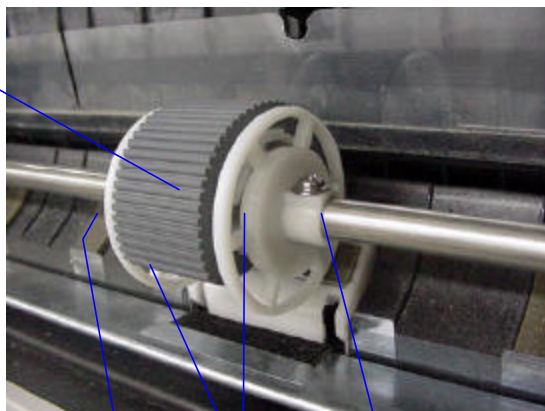
The space between the bypass pad and the base used to be regulated by the 'SPACER BYPASS PAD'. After change, space is securely regulated by the addition of the 'SLIDER, BYPASS PAD'.

4. Parts discontinuation / shape modification

Following the changes 1 to 3, below parts have been discontinued.

- 'COLLAR A/B/C', 'BYPASS PAPER FEED', 'SHEET B, BYPASS', 'FRONT FILM, BYPASS PAD'

'SPACER BYPASS PULLEY' is discontinued. (This spacer was located between rubber and resin part of pulley.)



'SHEET B, BYPASS' is discontinued. (Q'ty:4)

'FRONT FILM, BYPASS PAD' discontinued. (Q'ty:4)

'COLLAR B, BYPASS PAPER FEED' & screw discontinued. (cannot be seen in this photo.)

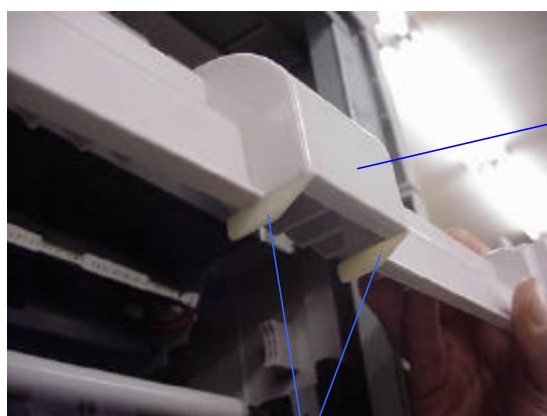
'COLLAR A, BYPASS PAPER FEED' & screw discontinued.

'COLLAR C, BYPASS PAPER FEED' is discontinued.

Following the discontinuance of 'COLLAR C, BYPASS PAPER FEED', the shape of below part has been changed.

- 'COVER BYPASS'

(In compliance with discontinuation of 'COLLAR C, BYPASS PAPER FEED', guide for paper insertion added.)



COVER, BYPASS

Guide added.