

Service Bulletin

SB Number:	SB 2AV-018	Issue Date: 30/10/2001
Subject:	Preventing pitch irregularity by adding FLYWHEEL	
Model:	KM-1530 / 2030, KM-1525	

In order to avoid irregularity of pitch (= drive) e.g to enable a smooth drive, a 'FLYWHEEL' has been added to reduce the irregularity in driving. In compliance with this modification, the interchangeability between old and new parts is lost.

See for more details about interchangeability: page 2 and for more details about 'Flywheel' itself page: 3 and later. Please pay also careful attention to the attention points for installment of the Flywheel on page 6!

Contents of changes

'FLYWHEEL' added. In order to create space for the 'FLYWHEEL', the following parts needed to be changed.

• 'REAR COVER'

Shape has been modified to make space for the 'FLYWHEEL'.

• 'SHAFT, COUPLING'

The length has been increased.

• 'BEARING'

Current 'BEARING' has been changed to a larger type to support the weight of the flywheel.

• 'LEFT MOUNT SAFETY SWITCH'

In compliance with the length extension of the shaft, the installation position of the safety switch has been moved up with 30 mm.

• 'LEFT WORK PLATE, SAFETY SWITCH'

In compliance with the position change of the safety switch, the shape of the part that presses down the switch has been modified.

• 'LEFT PARTITION, SAFETY SWITCH'

Newly added.

• 'LOWER WIRE'

In compliance with the position change of the safety switch, the wire has been lengthened.

• 'REAR FRAME, DRIVE UNIT'

To attach the above parts, attachment holes etc. is added or changed.

Important Notes:

- There is no interchangeability between the above old parts and new parts except for the 'REAR COVER' and 'LOWER WIRE'.
- The 'FLYWHEEL' is included in the machine packaging at shipment. The part needs to be installed during setup.
- As for KM-1525, the 'FLYWHEEL' is not included in the machine packaging at shipment. Please order and install the 'SET, FLYWHEEL' if required. The 'SET, FLYWHEEL' can only be installed on machines that have undergone the additional modifications (as described above) related to the addition of the 'flywheel'.

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Field Measure

As for KM-1530, KM-2030 machines that have undergone the additional modifications (see affected machine serial numbers!), which are described in this bulletin, please install the 'FLYWHEEL' included in the machine packaging. As for the KM-1525, please install the flywheel if required.

For the installment of the flywheel, please refer to page 3 to 5 of this bulletin.

When attaching and detaching the 'FLYWHEEL', please make sure to pull out the IU completely.

Affected Machine Serial Numbers:

KM-1530: 37031241 and later
KM-2030: 37030729 and later
KM-1525: 3005709 and later

Parts Table

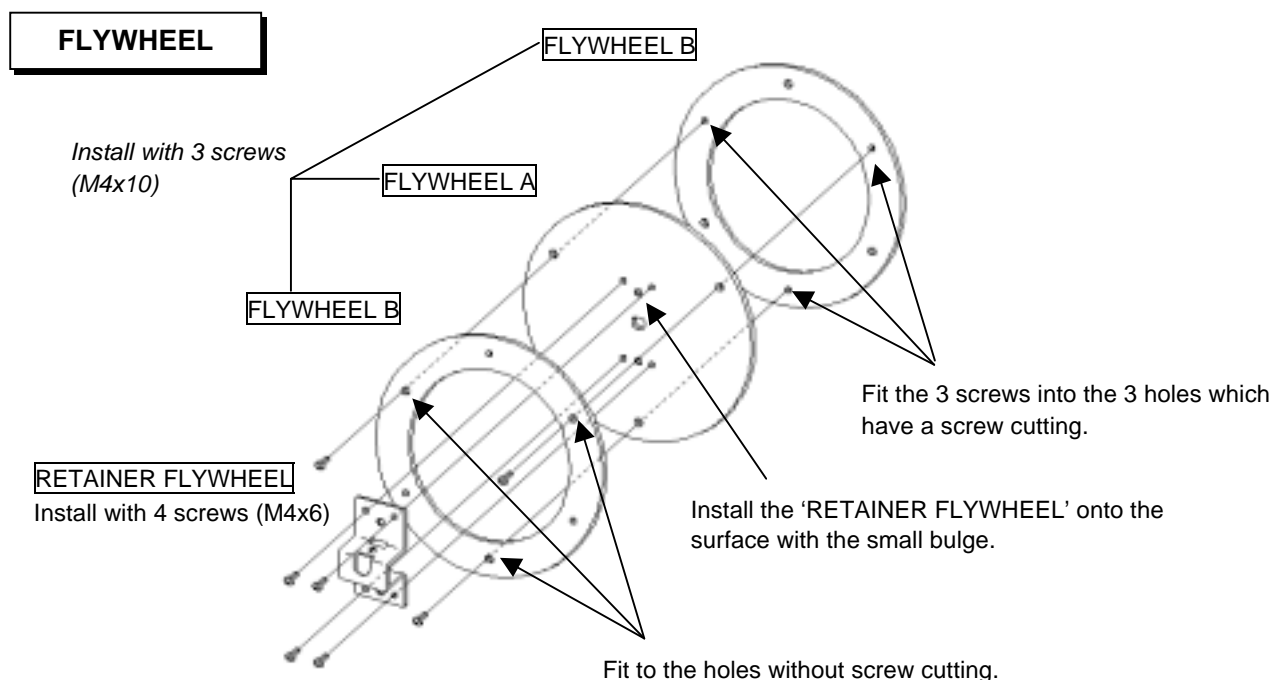
No.	Parts No. OLD	Parts No. NEW	Description	Q'ty Old/New		Interchangeability		Notes
1	---	2AV69760	SET, FLYWHEEL(2AV)	-	1	-	X	Set part of No.2 to 7
2	---	2AV22370	+ FLYWHEEL A	-	1	-	X	Included in the machine package of KM-1530 and KM-2030
3	---	2AV22380	+ FLYWHEEL B	-	2	-	X	
4	---	2AV22390	+ RETAINER, FLYWHEEL	-	1	-	X	
5	---	B1304100	+ BINDING SCREW BVM4X10 (BLACK)	-	3	-	X	
6	---	B1304060	+ BINDING SCREW BVM4X6 (BLACK)	-	4	-	X	
7	---	B1304080	+ BINDING SCREW BVM 4X8 (BLACK)	-	1	-	X	
8	2AV04190	2AV68190	REAR COVER	1	1	X	O	For KM-1530, KM-1525
9	---	2AX04011	REAR COVER	-	1	-	O	Note 1.
10	2AX04010	2AX04011	REAR COVER	1	1	X	O	For KM-2030
11	2AV22040	2AV22041	SHAFT, COUPLING	1	1	X	X	
12	2AV22350	---	FILM, DRIVE	1	1	X	X	
13	68822330	2AV22400	BEARING, 698ZZNR	1	1	X	X	
14	2AV26030	2AV26031	LEFT WORK PLATE, SAFETY SWITCH	1	1	X	X	
15	2AV26040	2AV26041	LEFT MOUNT, SAFETY SWITCH	1	1	X	X	
16	---	2AV26310	LEFT PARTITION, SAFETY SWITCH	-	1	-	X	
17	2AV27040	2AV27041	LOWER WIRE	1	1	X	O	
18	2AV22020	2AV22021	REAR FRAME, DRIVE UNIT	1	1	X	X	

Note 1.:

No.8 is for machines that have not undergone the modifications.

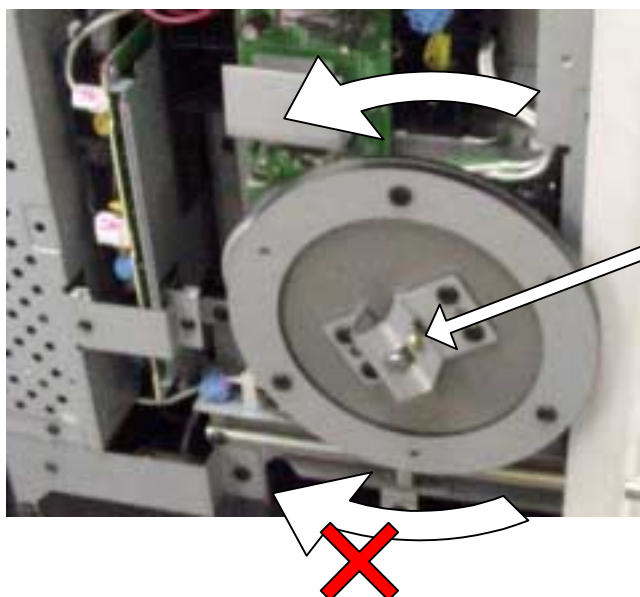
No.9 is for machines that have undergone the modifications.

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* The above flywheel assembly is included in the package of KM-1530 and KM-2030 (not for KM-1525). It exists of 3 layers fixed with a retainer. The fixing screws should go through all 3 layers. See Fig. above.

Installation of 'FLYWHEEL'



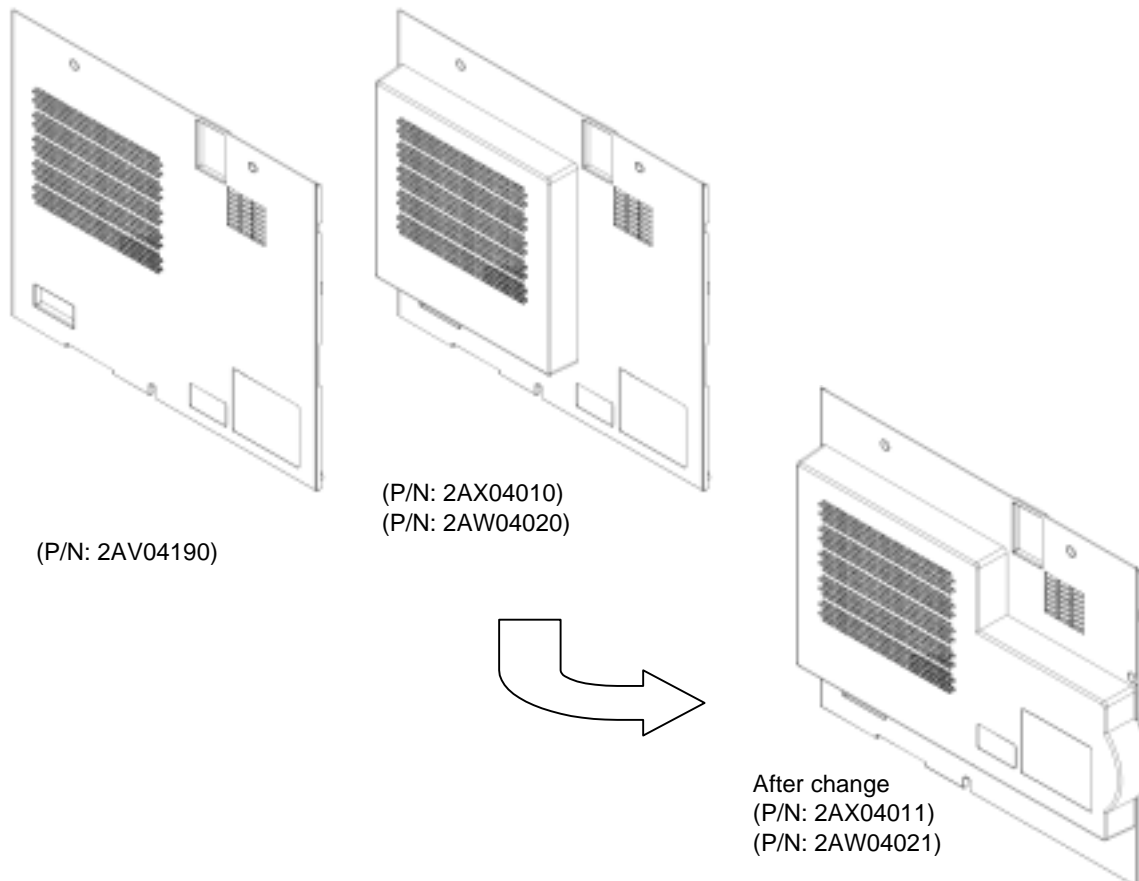
Fix complete flywheel to the drum shaft with a screw.

Important Note:

Do not turn the flywheel to the clockwise direction during installment, because the lower cleaning seal may deform and toner dropping may be caused !
When attaching and detaching the flywheel, **the IU must be pulled out first.** => See for more details page 6.

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REAR COVER



After detachment of FLYWHEEL

'LEFT PARTITION, SAFETY SWITCH' has been added.
(needed because of safety standards.)

The length of 'SHAFT, COUPLING' has been changed + diameter of bearing for the shaft has been changed.

The length of 'LOWER WIRE' has been changed.

The position of the safety switch has been moved up with 30 mm. In compliance with that, the following parts are also changed.

- **'LOWER WIRE'**
Length change
- **'LEFT MOUNT, SAFETY SWITCH'**
Change of safety switch installation position.
- **'LEFT WIRK PLATE, SAFETY SWITCH'**
In compliance with the change of installation position of safety switch, the shape of switch press part has been changed.
- **'REAR FRAME, DRIVE UNIT'**
The position of the hole to press down the safety switch has been changed.

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DRIVE UNIT

SHAFT, COUPLING

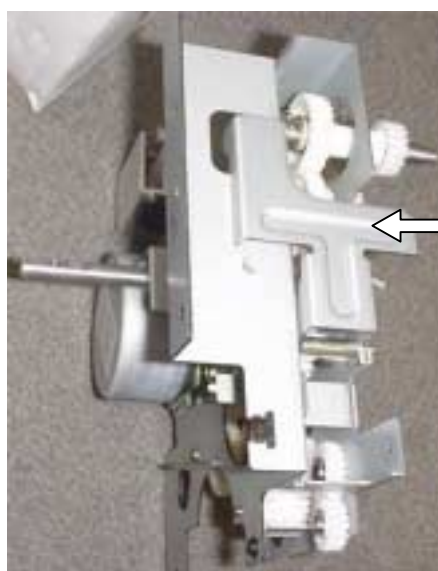


The position of hole has changed.

← A

The diameter of 'BEARING' has been enlarged to support the 'FLYWHEEL'.
The diameter of hole on 'REAR FRAME, DRIVE UNIT' has also been changed.

View from A direction



Shape change of 'LEFT WORK
PLATE, SAFETY SWITCH'.

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ATTENTION POINTS WHEN INSTALLING THE FLYWHEEL

Phenomenon 1.

When installing the flywheel or replacing it during maintenance and the flywheel is turned clockwise, while the IU is set, the lower cleaning seal may deform and toner dropping may be caused.

Phenomenon 2.

If the machine is moved while the flywheel is set, the drum shaft may become deformed.

When detaching or attaching the flywheel, the IU must be detached to prevent conveyance of the driving force to the IU.

The flywheel must be detached when moving the machine and re-installed after the machine's location is fixed.