

MACHINE TYPE: 8mm electronic feeders
CLASSIFICATION: Maintenance / Troubleshooting / TIPS
REFERENCE: H015760

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Anti-static magnets for 8mm electronic feeders

When the cover tape of the parts carrier tape is peeled off, static electricity occurs more or less. When the charging is strong, the part in the pocket may waggle or jump out and stick to the rear side of the tape guide resulting in parts pick-up errors or flipping over. To remedy such conditions, we offer anti-static magnets for use on the feeders and this document describes their use.

Note

The countermeasure anti-static magnets are designed only for tentative remedy. To achieve permanent remedy, please request the parts maker to take countermeasures such as modifying the tape material to control static electricity.

- Before installing the anti-static magnet on the feeder, please ask the parts maker if the magnet has no adverse effect on the parts.
- The force of the magnets is as weak as 200 mT, which has very low charging effect on the part's electrode.
- Even if you leave the magnet on the feeder for an extended period of time, the parts and the magnet remain stationary thus the charging effect won't increase.

1 Parts lists

Use the base unit and a base plate as required to suit the carrier tape thickness.

Common part

Description	Part name	Part number	Q'ty	Remarks
Base unit 1.6 mm	MAGNET,BASE UNIT 1.6	KHJ-MC1C5-00	1	Magnet base and screw See Note below.

Note

Spare screws are separately available: SCREW, KHJ-MC1C3-00

Selectable parts

Description	Part name	Part number	Q'ty	Remarks
Base plate 0.4 mm	PLATE,BASE 0.4	KJK-M194N-00	1	0.4mm thickness
Base plate 0.6 mm	PLATE,BASE 0.6	KJK-M194P-00	1	0.6mm thickness
Base plate 1.0 mm	PLATE,BASE 1.0	KJK-M194R-00	1	1.0mm thickness
Base plate 1.2 mm	PLATE,BASE 1.2	KJK-M194S-00	1	1.2mm thickness

2 Parts lists (bulk packs)

Bulk packs of the parts listed above are also available.

Common parts

Description	Part name	Part number	Q'ty	Remarks
Base unit 1.6 mm pack	MAGNET,BASE UNIT x 10	KHJ-MC1C5-10	1 set	10 pcs set
	MAGNET,BASE UNIT x 50	KHJ-MC1C5-20	1 set	50 pcs set

Selectable parts

Description	Part name	Part number	Q'ty	Remarks
Base plate 0.4 mm pack	PLATE,BASE 0.4 x 10	KJK-M194N-10	1 set	10 pcs set
	PLATE,BASE 0.4 x 50	KJK-M194N-20	1 set	50 pcs set
Base plate 0.6 mm pack	PLATE,BASE 0.6 x 10	KJK-M194P-10	1 set	10 pcs set
	PLATE,BASE 0.6 x 50	KJK-M194P-20	1 set	50 pcs set
Base plate 1.0 mm pack	PLATE,BASE 1.0 x 10	KJK-M194R-10	1 set	10 pcs set
	PLATE,BASE 1.0 x 50	KJK-M194R-20	1 set	50 pcs set
Base plate 1.2 mm pack	PLATE,BASE 1.2 x 10	KJK-M194S-10	1 set	10 pcs set
	PLATE,BASE 1.2 x 50	KJK-M194S-20	1 set	50 pcs set

3 Select a base plate

Find the T value of the carrier tape (T2 – T1) and select a base plate accordingly:

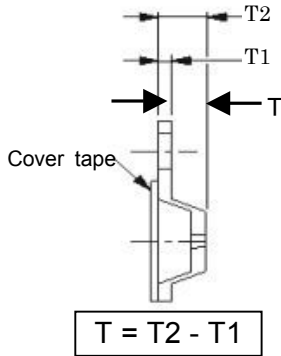
T2: Carrier tape thickness including pocket (cover tape thickness Not included).

T1: Carrier tape thickness excluding pocket (cover tape thickness Not included).

Note

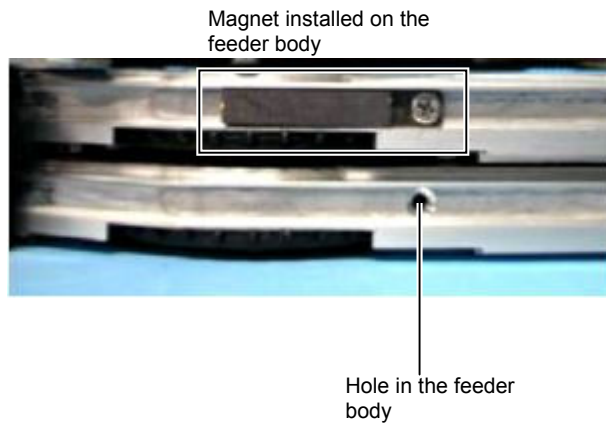
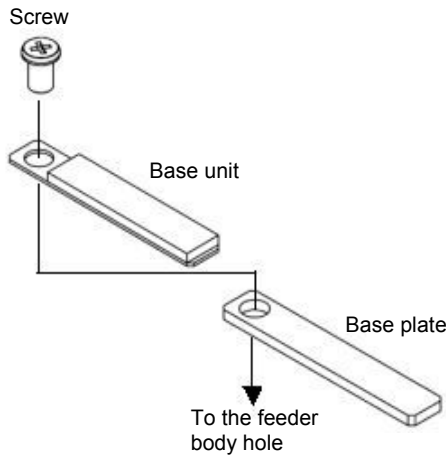
Wrong base plate selection may disable the magnet to function properly and/or allow the carrier tape bottom and the magnet to come into contact.

Carrier tape thickness measurement



Base plate	Use as set	T
	Base unit only	Thinner than 0.9 - 1.3 mm
	Base unit + 0.4mm	Thinner than 0.7 - 0.9 mm
	Base unit + 0.6mm	Thinner than 0.3 - 0.7 mm
	Base unit + 1.0mm	Thinner than 0.3 mm
	Base unit + 1.2mm	Paper tape

4 Install the magnet



Update history

Revision No.	Updated content	Issued date
-000	First release Note On 20 of October 2011, added a note about spare screws in "1 Parts lists".	26 August 2011