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Test Report of High Density Magnetic Stripe Reader Kit

May 21,2003

Test Samples : Test card - 1 HD TEST CARD TEXT PATTERN Per N1163 June,2002

Test card - 2 HD TEST CARD STRESS PATTERN Per N1163 June,2002

Apparatus : High Density Reader Kit with HDR Demonstration Application Software

| ITEM | CARD | CONDITION | RES ULT | ERROR CODE *4 | REMARKS |
|---|----------------|--|------------|------------------|--|
| Read at the fixed speed | TEXT STRESS | Card speed between 15 cm/s to 150 cm/s | OK | 00 00 | No problem |
| | | Card speed approx. 5 cm/s (very slow) or Card speed approx. 200 cm/s (very fast) | NO | various kinds | Problem but out of spec. (error correction is not effective) |
| Read at the fluctuate speed | TEXT STRESS | loose speed change (fast slow fast) (slow fast slow) | OK *1 | 01 02 01 03 | No problem (error correction is effective) |
| | TEXT STRESS | rapid speed change (fast slow fast) (slow fast slow) | NO | various kinds | Problem but no necessary in the field (error correction is not effective) |
| Tape on Mag. stripe (middle of Mag. stripe) see Fig. 1 | TEXT | one tape of 1 mm width | OK *1 | 01 02 | No problem (error correction is effective) |
| | | one tape of 3 mm width | OK *1 | 01 02 01 03 | No problem (error correction is effective) |
| | | one tape of 4 mm width | OK *1 | 01 02 01 03 | No problem (error correction is effective) lacked more than 200 bits |
| | | one tape of 5 mm width | NO | various kinds | Problem (error correction is not effective) |
| | | two tapes of 1 mm width | OK *1 | 01 04 | No problem (error correction is effective) |
| | | two tapes of 3 mm width | NO | various kinds | Problem (error correction is not effective) |
| | | three tapes of 1 mm width | NO | various kinds | Problem (error correction is not effective) |

| | | | | | |
|--|-------------|-------------------------|-------|----------------|--|
| Tape on Mag. stripe (middle of Mag. stripe) see Fig. 1 | STRESS | one tape of 1 mm width | OK *1 | 01 02 | No problem (error correction is effective) |
| | | one tape of 2 mm width | OK *1 | 01 02 01 03 | No problem (error correction is effective) |
| | | one tape of 3 mm width | OK *1 | 01 02 01 03 | No problem (error correction is effective) |
| | | one tape of 4 mm width | NO *2 | 01 02 01 03 | Some tracks have problem |
| | | two tapes of 1 mm width | NO | ----- | Problem (error correction is not effective) |
| Position gap in the direction of track | TEXT STRESS | 0 to 2 mm | NO *2 | various kinds | Some tracks have problem |
| | | more than 2 mm | NO | various kinds | Problem (error correction is not effective) |
| Card is leaned | TEXT STRESS | card is leaned by hand | OK *3 | 00 00 | Card is reformed by guide of kit |

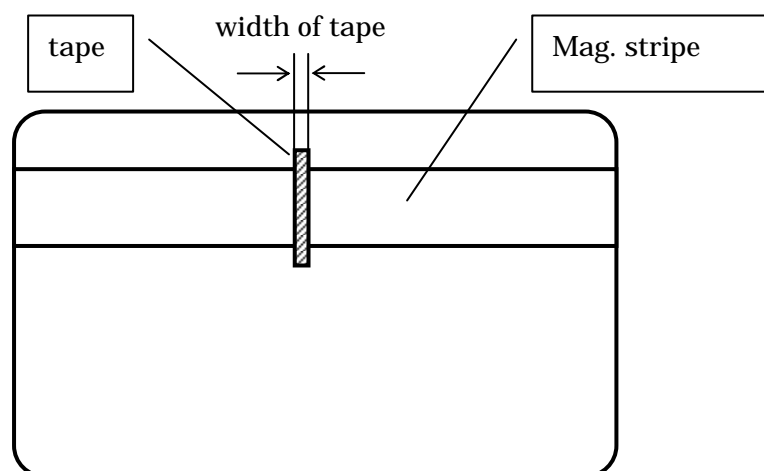
Note : *1 Data is reproduced by the error collection.

*2 Some tracks have problem but other tracks can read the data.

*3 Card is leaned by hand but reformed by guide. It is worry about guide width at design for equipment.

*4 Two figures on the bottom is the number of errors.

Fig. 1 Tape on Mag. stripe



Pictures of Kit



