

ASC X9 TR 6–2011

Guide to Quality MICR Printing and Evaluation



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Contents

Page

Foreword	viii
Guide to Quality MICR Printing and Evaluation.....	1
1 Introduction.....	1
1.1 Scope and Purpose.....	1
1.2 What you need to know in this technical report	2
2 Normative References.....	3
3 Terms and Definitions.....	4
4 General	8
4.1 An Overview of tools and Processes	8
4.2 Document Sampling and Sample Size	8
4.3 Other Considerations with MICR Quality Control	8
5 MICR Evaluation Tools and Techniques	10
5.1 Human Eye and Hand.....	10
5.2 MICR Position and Dimension Gauge	10
5.3 Small Optical Comparator (8X-12X Magnification)	12
5.4 Large Optical Comparator (20X-50X Magnification)	13
5.5 Microscope.....	14
5.6 Magnetic Tester	15
5.7 Debossment and Embossment Testers	15
5.8 Paper Testing.....	15
5.9 MICR Document Specification Form	16
6 Optical Evaluation	18
6.1 Basics of Optical Document Evaluation	18
6.2 The MICR Clear Band and Optical Clear Band	18
6.3 Paper.....	18
6.4 Optical Background	18
6.5 Optical Format	18
6.6 MICR Positioning.....	19
6.7 Adjacent Character Spacing and Alignment	20
6.8 Character and Line Skew.....	21
6.9 Basic Character Dimensions.....	23
6.10 Average Edge.....	23
6.11 Basic Tolerances.....	24
6.12 Edge Irregularity Allowances	24
6.13 Vertical and Horizontal Bars	24
6.14 Voids.....	24
6.15 Uniformity of Ink	28
6.16 Extraneous Ink.....	29
6.17 Debossment and Embossment.....	29
7 Calibration Documents	30

ASC X9 TR 6-2011

7.1	What is a Calibration Document?	30
7.2	Calibration Standards	30
7.3	Basic Usage.....	30
8	Magnetic Evaluation	31
8.1	Basics of Magnetic Document Evaluation	31
8.2	Signal Strength	31
8.3	Testing of all Character Peaks	32
8.4	First Peak Importance	32
8.5	Signal Level Limits	32
8.6	Horizontal Peak Locations.....	32
8.7	Non-Uniformity of the Waveform	33
8.8	Extraneous Peaks.....	35
8.9	Skew and Edge Irregularities.....	36
9	Debossment and Embossment	38
9.1	General.....	38
9.2	Debossment	38
9.3	Embossment	38
9.4	Manual Detection of Debossment and Embossment.....	39
9.5	Measurement of Debossment and Embossment	39
10	Paper	41
10.1	Introduction	41
10.2	Basis Weight of Paper	41
10.3	Grain Direction	42
10.4	Fillers, Coating and Background Inks	42
10.5	Moisture Level.....	42
10.6	Electrical Properties	43
10.7	Other Considerations	44
11	MICR Readers and Reader/Sorters	44
11.1	General Concepts	44
11.2	Reader/Sorter Types.....	45
11.3	Document Handling.....	45
12	Permanence.....	46
12.1	Introduction	46
12.2	Permanence of Ink Regarding Fold Resistance	47
13	Vendor Responsibility	47
13.1	Introduction	47
13.2	Parameters	47
13.3	User Education.....	47
13.4	Verification and Testing of MICR Printing Systems.....	48
13.5	Non-Impact Printing Guidelines	48
13.5.1	Hardware.....	48
13.5.1.1	Paper Registration	48
13.5.1.2	Development.....	49
13.5.1.3	Other Hardware Issues	49
13.5.1.4	Service/Maintenance Program.....	49
13.5.2	Software.....	49
13.5.2.1	E-13B Font	49
13.5.2.2	Printer Alignment	49
13.5.2.3	Quality Assurance.....	49
13.5.2.4	MICR Line Spacing.....	50
13.5.3	MICR Supplies.....	50
13.5.3.1	MICR Dry Ink (Toner)	50

ASC X9 TR 6–2011

13.5.3.2	MICR Dry Ink Cartridges.....	50
13.5.3.3	MICR Bond Paper.....	50
13.5.4	Quality Assurance.....	50
13.5.4.1	Quality Check List.....	50
13.5.5	Security	51
13.5.6	Services.....	51
13.5.6.1	Document Design	51
13.5.6.2	Digitizing Service	51
13.5.6.3	MICR Document Testing	51
13.5.6.4	Hardware and Software Maintenance.....	51
13.5.6.5	MICR Quality Assurance	52
Annex A E-13B	– MICR Character Outlines	53
A.1	Introduction.....	53
A.2	MICR Character Outlines	54
Annex B	Signal Levels and Waveforms	59
B.1	Introduction.....	59
B.2	Signal Levels and Wave Forms.....	59
Annex C	Magnetic Inks	68
C.1	Introduction.....	68
C.2	MICR Ribbons	68
C.3	MICR Dry Ink (Toner).....	69
C.4	MICR Wet Ink.....	69
C.5	Basic Physical Properties of MICR Ink.....	70
C.6	Technical Definitions	70
C.7	Magnetic Ink Guidelines	71
Annex D	MICR Testing Equipment and Services.....	74
D.1	Introduction.....	74
Annex E	MICR Quality Control Checklist.....	76
E.1	Checklist.....	76
E.2	General Inspection	76
E.2.1	Compare the MICR line format with the correct format for your bank	76
E.2.2	Quickly flip through the deck.....	76
E.2.3	Check a few samples for debossment or embossment using your finger tips	76
E.3	Check Registration, Layout and Document Dimensions	76
E.3.1	Make sure that all fields fall in the correct areas	77
E.3.2	Check for clear band intrusion, i.e., image in the clear band	77
E.3.3	Check for proper MICR line registration	77
E.3.4	Scan for possible character-to-character spacing and skew problems.....	77
E.3.5	Check character-to-character vertical alignment.....	77
E.3.6	Check document dimensions against specification.....	77
E.4	Check for Voids, Extraneous Ink and Other Print Defects.....	77
E.4.1	Examine the front of the clear band for extraneous ink.....	78
E.4.2	Examine the back of the clear band for extraneous ink.....	78
E.4.3	Examine all characters for voids	78
E.5	Check MICR Image Quality Specification Conformance	78
E.5.1	Compare character average edge outline with specification	78
E.5.2	Compare horizontal stroke width with specification	78
E.5.3	Compare edge irregularity with specification	78
E.6	Check MICR Signal Strength.....	78

ASC X9 TR 6-2011

E.6.1 Compare designated peak signal strength with specification for all characters78
E.6.2 Examine character waveforms for non-uniformity or irregularities78
E.6.3 Examine extraneous ink, if present, to verify that ink is magnetic78
E.6.4 Examine clear band intrusions, if present, to verify that ink is magnetic78
E.6.5 Evaluate debossed characters for waveform uniformity.....78
E.7 Check Debossment/Embossment.....79
E.7.1 Compare debossment / embossment levels with specification79
E.8 The “Live” Test79
E.8.1 Inform document producer of format or layout problems79
E.8.2 Assess severity of specification shortfalls, if any79
E.8.3 Grade and Inform79
Annex F Conversion Table81

Figures

Figure 1 MICR Position and Dimension Gauge 12
 Figure 2 MICR Character Positioning..... 12
 Figure 3 Typical MICR Grid Eye Loupe Reticle..... 13
 Figure 4 Typical MICR Outline Eye Loupe Reticle (10X Normal Size) 14
 Figure 5 Sample MICR Document Specification Form 17
 Figure 6 Required Structures – Routing and Amount Fields..... 19
 Figure 7 Horizontal Character Spacing Errors 20
 Figure 8 Character Alignment 21
 Figure 9 On-Ups and Dash Symbol Alignment 21
 Figure 10 Line and Character Skew Errors 22
 Figure 11 Maximum Permitted Character Skew..... 23
 Figure 12 Edge Irregularity 25
 Figure 13 Character Size Limits 26
 Figure 14 Average Edge Considerations 27
 Figure 15 Void Structures..... 28
 Figure 16 Typical Calibration Document 30
 Figure 17 Examples of Waveform Non-Uniformity 34
 Figure 18 On-Ups Symbol Waveform with an Extraneous Peak Caused by an Internal Void..... 36
 Figure 19 On-Ups Symbol Waveform with an Extraneous Peak Caused by Extraneous Ink..... 36
 Figure 20 Skew and Waveform Distortion..... 37
 Figure 21 Debossment 40
 Figure 22 Embossment 40
 Figure 23 Character Grid Dimensions 53
 Figure 24 Outline of Digits 0, 1, 2, and 3..... 54
 Figure 25 Outline of Digits 4, 5, 6, and 7..... 55
 Figure 26 Outline of Digits 8, 9, and the Transit and Amount Symbols 57

ASC X9 TR 6–2011

Figure 27	Outline of the On-Ups and Dash Symbols.....	57
Figure 28	Signal level table and theoretical waveform – Character One.....	59
Figure 29	Signal level table and theoretical waveform - Character Two	60
Figure 30	Signal level table and theoretical waveform - Character Three.....	60
Figure 31	Signal level table and theoretical waveform - Character Four.....	61
Figure 32	Signal level table and theoretical waveform - Character Five	61
Figure 33	Signal level table and theoretical waveform - Character Six	62
Figure 34	Signal level table and theoretical waveform - Character Seven.....	62
Figure 35	Signal level table and theoretical waveform - Character Eight.....	63
Figure 36	Signal level table and theoretical waveform - Character Nine.....	63
Figure 37	Signal level table and theoretical waveform - Character Zero.....	64
Figure 38	Signal level table and theoretical waveform - Transit symbol.....	64
Figure 39	Signal level table and theoretical waveform - Amount symbol	65
Figure 40	Signal level table and theoretical waveform - On-Ups symbol	65
Figure 41	Signal level table and theoretical waveform - Dash symbol	66
Figure 42	Magnetic Ink Hysteresis Curve	72

Tables

Table 1:	Summary of MICR QC Tools and Who Needs to Use Them	3
Table 2:	Tests to Perform as per X9B Standards	11

Foreword

Since the introduction of the MICR (Magnetic Ink Character Recognition) document in 1957, which provided for the initial automation of the check processing system, there have been significant advances in technologies involved with the printing, processing, and testing of checks. Developments in these technologies have led to the expansion of the number of people with direct involvement in the production of MICR documents.

It is important to note that MICR quality requirements apply uniformly to all checks. While quality requirements may vary with application, there is generally no way to target documents for a specific application.

In 1988, when a major revision of American National Standard (ANS) X9.27, *Print Specifications for Magnetic Ink Character Recognition (MICR)*, was approved and printed, ASC X9B determined that additional work was required regarding MICR print quality. As a result, ASC X9B maintained an Ad Hoc MICR Print Quality Working Group that met at least three times each year until 1995. This group was concerned with addressing the challenges faced with the introduction of new MICR printing technologies.

This technical report is an effort to document much of what the original Ad Hoc MICR Print Quality Working Group felt was essential to be put into a single reference for industry use and as an educational tool for new comers. The initial report, issued as an ASC X9B Technical Guideline, TG-6, was published in 1995, and updated in 2000. The report content has been reviewed and updated to reflect the current MICR environment. In addition to the main body of the report, there are seven annexes in this technical report, which are provided for information purposes only.

This document is the product of many people's efforts over several years; however, our entire group would like to honor the memory of Glenn Mulligan, Xerox Corporation, who was the initial editor. Glenn was instrumental in arranging the original text and composing many of the illustrations prior to his death in 1993.

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Guide to Quality MICR Printing and Evaluation

1 Introduction

1.1 Scope and Purpose

This technical report covers all MICR printing and is intended to improve MICR quality via understanding and uniform interpretation of existing standards and specifications of MICR. The basic elements of MICR are defined in existing American National Standards, which are referenced where appropriate. This document serves as a single reference for the foremost set of elements that will produce quality MICR documents.

The purpose of the document is to aid existing MICR printers as well as a new and ever expanding producer group in the production and evaluation of MICR documents, and, to attain broader MICR print specification conformance. Widespread distribution of this report is encouraged in order to include the following industry groups:

MICR printing equipment manufacturers and vendors – Software and Hardware

- Vendors of impact and non-impact MICR printing components and systems

- Developers of MICR application software

- Check printing equipment manufacturers

Financial Institutions

- Incoming QC inspection of MICR documents by banks

- Evaluation of reader/sorter rejects

- QC of proof encoding equipment

- Evaluating sources of checks for bank customers

- Production groups for the Image Replacement Documents (IRDs)

Check issuers

- Users of high and moderate speed MICR printing equipment

- Users of table top MICR laser printers

Check printing companies

- Check design groups

- Check production groups

MICR reading and sorting equipment vendors – Software and Hardware

- Reader/sorter equipment manufacturers

- MICR quality testing tools and service companies