IBM Global Labeling Guide

Volume 9 - IBM Global RID Barcode Label

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1. Introduction

1.1 Abstract

This document defines the data format and content for a Global RID Barcode Label (RID = Repair Identification). This label must be used on all Field Replaceable Units (FRU) sourced by Service Parts Operations (SPO) worldwide to identify an IBM or an OEM product that has been processed through an inspection, test and/or a repair process for the purpose of optimizing the SPO Engineering Parts Quality Management Process and Warranty Management Process.

The Global RID Barcode Label serves as tracking method to help determine:

- the part number
- the country in which the part was repaired
- the vendor who repaired the part
- the date the part was repaired
- the part type : repaired, new, used, OEM, etc…

The data shall be encoded in Code 39 bar code, also known as 'three of nine' (3of9) barcode symbology and be compliant to IBM Global Labeling Guide Volume 1 (P/N 31L5038).

The Global RID Barcode Label must be applied to both the physical FRU and the FRU package, and the RID must also be human readable.

1.2 Objectives

The objectives of the Global RID Barcode Label are to :

- Create a **Uniform Method** of tracking repaired FRUs
- Establish **Uniformity** and **Standardization** of the Barcode Label used on all FRU's sourced by SPO in order to optimize **Data Collection** and **Parts Tracking** in support of the **Global Quality Management Process**.
- Ensure **Global Traceability** of the parts sourced from other Geographies for **Quality Management** and **Control.**
- Create a structure to enable **Warranty Management**.

1.3 Application

The requirements of the Global RID Barcode Label apply to all Field Replaceable Units (FRU) sourced by Service Parts Operations (SPO) worldwide, except those identified in the note below.

Note:
IBM Manufacturing and External Fulfilment locations are excluded from the scope of this requirement, as well as the producers of new parts manufactured to IBM Manufacturing specification and sold directly to SPO. These new parts are labeled in compliance to specifications established by the controlling manufacturing organization. These

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parts are marked with labels compliant with the Global Labeling Guide Volume 5 (P/N 31L5154), Volume 6 (P/N 31L5241) and related standards.

The IBM approved suppliers must ensure that the Global RID Barcode Labeling requirements are complied with consistently for all FRUs / Spare Parts shipped to Service Parts Operations (SPO) worldwide either by themselves or by vendors performing work for them.

The IBM approved suppliers must **remove the old RID Barcode Label** from the FRU before placing a new Global RID Barcode Label on the physical part.

The IBM approved suppliers must place a Global RID Barcode Label on both the physical FRU and the FRU package. On returned FRUs, the supplier must replace the old Global RID Barcode Label with a new Global RID Barcode Label and must ensure that the date on the new label reflects the new date the part was processed.

1.4 Effective Date

Suppliers of parts to SPO must implement these requirements immediately after the agreed upon implementation date with the IBM Purchasing department.

After that date, parts that do not conform to these requirements will be rejected.

2. Document Administration

2.1 Originating Area

This document was generated by SPO Engineering and is currently maintained by Esteban Mateo.

Any comments should be addressed to: Esteban Mateo - ewmateo@us.ibm.com

2.2 Property Statement / Ownership

This document is the property of the SPO Engineering. Its use is authorized only for responding to "Request for Quotation" (RFQ) and for the performance of work for Service Parts Operations (SPO).

All suppliers' questions must be referred to the responsible IBM purchasing department.

2.3 Authorization

Publication of this document was approved by the SPO Engineering team for the purpose of providing more information for FRU Traceability and Warranty Claims.

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3.0 Requirements

3.1 Compliance

Compliance with this document is required. If there is a business reason or technical roadblock for a deviation or non-compliance from the requirements of this document, it must be communicated to and approved by SPO Engineering. Any exceptions must be documented by SPO Engineering.

3.2 Responsibilities

The approved suppliers providing parts to SPO must:

1. ensure that the labeling requirements are complied with consistently for all FRU/Spare parts shipped to SPO either by themselves or by vendors performing work for them.

2. ensure that the information that appears on the label reflects the attributes specified by the Global Labeling requirements.

3. modify the necessary equipments (printers and software) to meet the Labeling requirements, using existing equipment where possible to reduce costs.

4. obtain concurrence from IBM Procurement / SPO Engineering for all deviations from these requirements.

5. Remove any old Global RID barcode label from the FRU before placing a new Global RID barcode label on both the FRU and the FRU package.

6. ensure that the original 11S barcode label remains permanently on the FRU.

Sort Operators must :

- utilize the necessary equipment for Barcode readability (Scanners, Software, Terminals...)
- verify returned parts per these requirements and report non-compliance to **SPO Engineering** .

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4.0 The Global RID Barcode

4.1 Definition and Format

The Global RID number is defined as the concatenation of the IBM FRU part number and a unique serial number that is composed of several segments.

The format of the Global RID Barcode Label is :

52S PPPPPPP SSSSSSSSSSS

where:

52S = **Barcode Data Identifier (3 Characters)**

PPPPPPP = **IBM FRU Part Number (7 Characters)**

SSSSSSSSSSS = **Serial Number (12 Characters**) as defined in the table in section 4.2

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4.2 Segments of the RID

POSITION	DATA SEGMENTS	DESCRIPTION
1 to 3	52S	- Fixed Data Identifier for the RID
4 to 10	PPPPPPP	- 7 Digits FRU Part Number
11 to 12	CC	- The Country code of residence of the supplier responsible for the warranty of the part (2 alpha characters based on ISO 3166)
13 to 14	VC	- Supplier Code : 2 alpha characters indicating the supplier who is responsible for the warranty of the part **Note:** Supplier codes are assigned and maintained by SPO Engineering
15 to 18	YYWW	- Date (last 2 digits of the year and the week #)
19	T	- Part Type (New, CSP, NDF, Used) where : C = Certified Spare Part (CSP) D = Screening, No Defect Found (NDF) or NDF Tested Part only for Out of Warranty (OOW) Parts N = New Part U = Used Part ***)** W = Screening, NDF or NDF Tested Part only for Warranty Parts (WAR) *) **Note:** the use of this part type is restricted and must follow the rules defined in C-S 0-5103-007: "Used parts may only be shipped from a plant to the field in case of an emergency, or when existing stocks of New, ETN and CSP parts are depleted and the cost of a new production or remanufacturing process would be prohibitive."
20 to 22	SSS	- Sequence Number (3 Characters indicating the sequence the part number was processed at the supplier for the particular week. Ex : - 001 to 999 for weekly rate < 1,000 - A01 to Z99 for weekly rate > 1,000

Table 1: *Segments of the RID Bar Code Element*

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5.0 Label Requirements

5.1 Label Size

The size of the 52S barcode label is not specified in all cases and may be chosen by suppliers as long as the required attributes and parameters are complied with. This will increase the possibility of utilizing existing Barcode Labeling equipment.

5.2 Placement of Barcode Labels

The IBM approved suppliers must place the 52S barcode label on the FRU at a location where:

- the label must not adversely affect the functionality of the FRU,
- the label is clearly visible to the Sort Operator.
- it is in close proximity to the manufacturer label, if space permits

When there is limited or restrictive space on FRUs, suppliers must use best judgment and must be consistent in ensuring that the barcode label is accurate, legible and scannable.

With regard to the FRU package, the IBM approved suppliers will have 2 options in placing the Global RID barcode on the FRU package:

Option # 1 : integrate the Global RID barcode on the FRU package label as an additional element and at a location where it will not interfere with any other information on the FRU package label (preferably at the bottom of the FRU package label).

Option # 2 : place a second, separate Global RID barcode label on the FRU package in close proximity to the FRU package label.

Please refer to the IBM Global Labeling Guide Volume 6 (P/N 31L5241) for further details.

5.3 Label Material

In general, paper based labels with permanent pressure adhesives should be used. Black Printing on White Background is expected. Any other material requires approval of the IBM SPO Engineering representative. Label materials must comply to IBM Engineering Specification 46G3772 to ensure Restriction of Hazardous Substances for RoHS compliance.

5.4 Printers

The printer must be capable of printing a high quality, legible Code 39 (3 of 9) bar code. Thermal Transfer printers are recommended for this application.

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6.0 Reference Documents

- IBM Corporate Standard C-S 0-2535-004 - Marking of IBM Parts
- IBM Corporate Standard C-S 0-5103-007 - Reutilization of Parts
- IBM Corporate Standard C-S 1-1121-015 - Automatic Identification (AI) for Packaging, Distribution and Manufacturing (Bar Coded Labels)
- IBM Eng. Specification P/N 31L5038 - IBM Global Labeling Guide - Volume 1 - Overview and General Rules
- IBM Eng. Specification P/N 31L5154 - IBM Global Labeling Guide - Volume 5 - Part Labels
- IBM Eng. Specification P/N 31L5241 - IBM Global Labeling Guide - Volume 6 - FRU Package Labels
- IBM Engineering Specification 46G3772 - Baseline Environmental Requirements for Materials, Parts, and Products for IBM Logo Hardware Products
- Blue Seal Specifications for IBM Service Parts - Specifications for Field Replaceable Service Parts Repaired or Procured for IBM

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Appendix A. Examples of Global RID Barcode Labels

Example # 1 : IBM CSP Part Number 39F7924, repaired by the "Best Supplier" Corporation (located in the United States of America), on Week # 12 of the year 2018 will have the following RID barcode label, where 54 is the fifty fourth part from the supplier process for that particular week.

The entire data encoded in the bar code would be : **52S39F7924USBS1812C054**

Position	Data Segment	Description
1 to 3	**52S**	**- Fixed Data Identifier specifying an SPO Part**
4 to 10	**39F7924**	**- Part Number**
11 to 12	**US**	**- United States as the Supplier's Country of Residence**
13 to 14	**BS**	**- Supplier Code for the Best Supplier Corporation**
15 to 18	**1812**	**- Week # 12 of the Year 2018**
19	**C**	**- CSP Part**
20 to 22	**054**	**- The fifty fourth IBM CSP Part Number 39F7924 repaired by the Best Supplier Corporation for Week # 12**

The following figure shows how the RID bar code should be printed on the label:

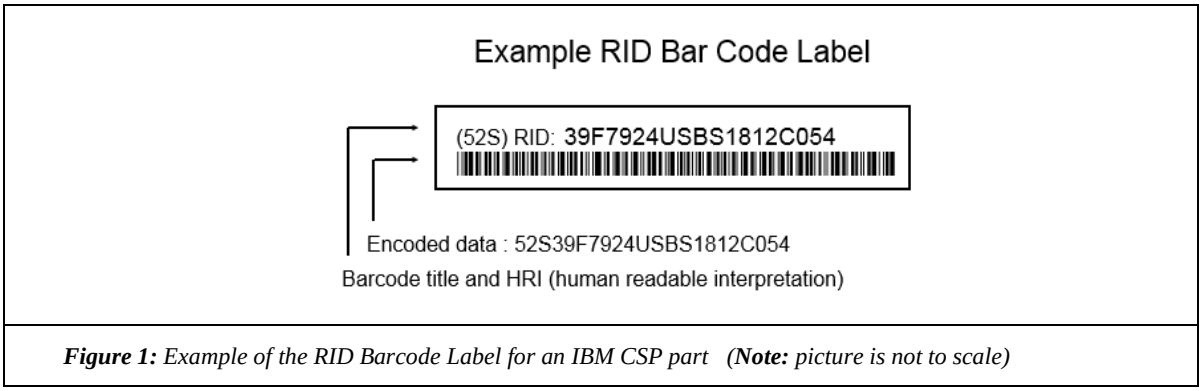

Figure 1: *Example of the RID Barcode Label for an IBM CSP part* ***(Note:*** *picture is not to scale)*

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Example # 2 : Multi Vendor / OEM New Part Number 16K9100 , sourced from the Yamoto Company in Japan, on Week # 34 of the year 2018 will have the following barcode label, where A00 is the one thousandth part from the supplier process for that particular week.

The entire data encoded in the bar code would be : **52S16K9100JPYA1834NA00**

Position	Data Segment	Description
1 to 3	**52S**	**- Data Identifier**
4 to 10	**16K9100**	**- Part Number**
11 to 12	**JP**	**- Japan as the Supplier's Country of Residence**
13 to 14	**YA**	**- Supplier Code for the Yamoto Company**
15 to 18	**1834**	**- Week # 34 of the Year 2018**
19	**N**	**- New Part**
20 to 22	**A00**	**- The one thousandth new part number 16K9100 provided to SPO by the Yamoto Company for Week # 34**

The following figure shows how the RID barcode should be printed on the label:

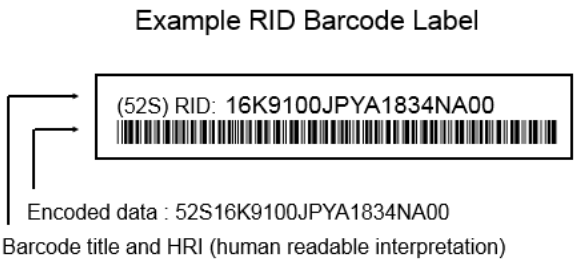

Figure 2: *Example of the RID Barcode Label for a multi vendor / OEM part* ***(Note:*** *picture is not to scale)*

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Appendix B. Revision History

Date	EC Level	Changes
2006-03-22	G32989	Initial publication as a worldwide common specification and released as an IBM part number
2006-11-21	G42517	1. Included as a separate volume into the series of IBM Global Labeling Guides. 2. Adapted the document to the format and 'look and feel' of the Global Labeling Guides 3. Split section 'Document Administration' into 'Document Administration' and 'Requirements' 4. Inclusion of application of the RID to the FRU package 5. Creation of two appendices with 'Examples' and the 'Revision History' 6. Addition of 2 pictures with examples of RID labels 7. Some minor changes in the wording for clarity and consistency
2011-03-31	L80800G	1. Modified part type definition D and specified its applicability for 'out of warranty' parts only 2. Added new part type code W and specified its application for 'warranty parts' only. 3. Changed contact name 4. Changed ‘SM&E’ into ‘SPO Engineering’ 5. Added information on the 2 character vendor code administration
2013-11-14	L80800M	1. Changed author name and contact details 2. Modified some wording in the abstract for better readability 3. Clarification of the application of the RID in section 1.3 4. Added documentation requirement for approved exceptions 5. Clarified the use of the country code in table 1 6. Clarified and added to the ‘RID placement’ requirements in section 5.2 7. Modified example 2 in appendix A, using 2013 as the year of processing/repair 8. A few minor editorial changes of the text in various places
2019-03-06	10000P11820	1. Changed author contact details 2. Reduced part type definitions from 8 to 5 part types: New, CSP, 2x NDF and Used. No longer distinction between IBM logo and non-IBM logo parts 3. Added reference to C-S 0-5103-007 and quote on restrictions of the use of part type ‘Used’. 4. A few minor editorial changes 5. Changed data values of the RID Label examples in Appendix A

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