

# Manufacturing date

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Area of validity, binding force, freedom to disclose	
Valid for	Bosch Group
Binding for	no central agreement
Binding due to	no central agreement
Recommended for	Bosch Group
Disclosure	Restricted in accordance with Guideline RB/GF 108.

This Bosch-Norm is binding for suppliers if it is part of the order.

## 1 Scope

This Bosch-Norm specifies form and values of the manufacturing date on marking plates.

### 1.1 General

All products and parts made by the companies of the Bosch Group are marked with a manufacturing date (FD). There is a coded and an uncoded version. Type, extent and arrangement of the FD, including additional information, are determined by the responsible development department by way of a drawing (see chapter 4).

The complete product labeling is regulated in N41A A1.

The following applies:

- ▶ Since 2000-01-01 new products and parts in the business sector Automotive Technology are marked with an uncoded manufacturing date according to chapter 3. The type of date is not changed for products and parts that already existed at that time. Neither is the type of date changed for variants of products and parts that already exist.  
Exception: If space is scarce, an encrypted manufacturing date as per 2 is permissible for new products and parts as well.
- ▶ All **other business divisions** use an encrypted manufacturing date as per chapter 2. By exception the uncoded manufacturing date as per chapter 3 may also be used.

The manufacturing date signifies the final acceptance inspection.  
No product is permitted to be predated beyond the time of delivery if the manufacturing date is attached already during production.

## 2 Encrypted manufacturing date (date keys)

### 2.1 Month-manufacturing date (month-FD)

The month-manufacturing date for the years from 1964 to 2013 are based on the following system of month keys:

2007 = 781 to 792  
to  
2009 = 981 to 992

and

2010 = 001 to 012  
to  
2013 = 301 to 312

Table 1            Month keys from 2007 to 2013:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2007	781	782	783	784	785	786	787	788	789	790	791	792
2008	881	882	883	884	885	886	887	888	889	890	891	892
2009	981	982	983	984	985	986	987	988	989	990	991	992
2010	001	002	003	004	005	006	007	008	009	010	011	012
2011	101	102	103	104	105	106	107	108	109	110	111	112
2012	201	202	203	204	205	206	207	208	209	210	211	212
2013	301	302	303	304	305	306	307	308	309	310	311	312

**Month-manufacturing date (month-FD) from the year 2014:**

For the years 2014 to 2029 the month-manufacturing date is generated from the unused key numbers of the years 1964 to 1999.

The month-manufacturing date for the years from 2014 to 2029 are based on the following system of month keys:

2014 = 417 to 420 and 453 to 460  
to  
2019 = 917 to 920 and 953 to 960

and

2020 = 037 to 040 and 073 to 080  
to  
2029 = 937 to 940 and 973 to 980

Table 2            Month keys from 2014 to 2029:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	417	418	419	420	453	454	455	456	457	458	459	460
2015	517	518	519	520	553	554	555	556	557	558	559	560
2016	617	618	619	620	653	654	655	656	657	658	659	660
2017	717	718	719	720	753	754	755	756	757	758	759	760
2018	817	818	819	820	853	854	855	856	857	858	859	860
2019	917	918	919	920	953	954	955	956	957	958	959	960
2020	037	038	039	040	073	074	075	076	077	078	079	080
2021	137	138	139	140	173	174	175	176	177	178	179	180
2022	237	238	239	240	273	274	275	276	277	278	279	280
2023	337	338	339	340	373	374	375	376	377	378	379	380
2024	437	438	439	440	473	474	475	476	477	478	479	480
2025	537	538	539	540	573	574	575	576	577	578	579	580
2026	637	638	639	640	673	674	675	676	677	678	679	680
2027	737	738	739	740	773	774	775	776	777	778	779	780
2028	837	838	839	840	873	874	875	876	877	878	879	880
2029	937	938	939	940	973	974	975	976	977	978	979	980

**Month-manufacturing date (month-FD) from the year 2030:**  
From the year 2030 on only an alphanumeric manufacturing date will be used.

Table 3      Alphanumeric month keys for the years 2030 to 2059:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2030	0A1	0A2	0A3	0A4	0A5	0A6	0A7	0A8	0A9	0AA	0AB	0AC
2031	1A1	1A2	1A3	1A4	1A5	1A6	1A7	1A8	1A9	1AA	1AB	1AC
2032	2A1	2A2	2A3	2A4	2A5	2A6	2A7	2A8	2A9	2AA	2AB	2AC
2033	3A1	3A2	3A3	3A4	3A5	3A6	3A7	3A8	3A9	3AA	3AB	3AC
2034	4A1	4A2	4A3	4A4	4A5	4A6	4A7	4A8	4A9	4AA	4AB	4AC
2035	5A1	5A2	5A3	5A4	5A5	5A6	5A7	5A8	5A9	5AA	5AB	5AC
2036	6A1	6A2	6A3	6A4	6A5	6A6	6A7	6A8	6A9	6AA	6AB	6AC
2037	7A1	7A2	7A3	7A4	7A5	7A6	7A7	7A8	7A9	7AA	7AB	7AC
2038	8A1	8A2	8A3	8A4	8A5	8A6	8A7	8A8	8A9	8AA	8AB	8AC
2039	9A1	9A2	9A3	9A4	9A5	9A6	9A7	9A8	9A9	9AA	9AB	9AC
2040	0B1	0B2	0B3	0B4	0B5	0B6	0B7	0B8	0B9	0BA	0BB	0BC
2041	1B1	1B2	1B3	1B4	1B5	1B6	1B7	1B8	1B9	1BA	1BB	1BC
2042	2B1	2B2	2B3	2B4	2B5	2B6	2B7	2B8	2B9	2BA	2BB	2BC
2043	3B1	3B2	3B3	3B4	3B5	3B6	3B7	3B8	3B9	3BA	3BB	3BC
2044	4B1	4B2	4B3	4B4	4B5	4B6	4B7	4B8	4B9	4BA	4BB	4BC
2045	5B1	5B2	5B3	5B4	5B5	5B6	5B7	5B8	5B9	5BA	5BB	5BC
2046	6B1	6B2	6B3	6B4	6B5	6B6	6B7	6B8	6B9	6BA	6BB	6BC
2047	7B1	7B2	7B3	7B4	7B5	7B6	7B7	7B8	7B9	7BA	7BB	7BC
2048	8B1	8B2	8B3	8B4	8B5	8B6	8B7	8B8	8B9	8BA	8BB	8BC
2049	9B1	9B2	9B3	9B4	9B5	9B6	9B7	9B8	9B9	9BA	9BB	9BC
2050	0C1	0C2	0C3	0C4	0C5	0C6	0C7	0C8	0C9	0CA	0CB	0CC
2051	1C1	1C2	1C3	1C4	1C5	1C6	1C7	1C8	1C9	1CA	1CB	1CC
2052	2C1	2C2	2C3	2C4	2C5	2C6	2C7	2C8	2C9	2CA	2CB	2CC
2053	3C1	3C2	3C3	3C4	3C5	3C6	3C7	3C8	3C9	3CA	3CB	3CC
2054	4C1	4C2	4C3	4C4	4C5	4C6	4C7	4C8	4C9	4CA	4CB	4CC
2055	5C1	5C2	5C3	5C4	5C5	5C6	5C7	5C8	5C9	5CA	5CB	5CC
2056	6C1	6C2	6C3	6C4	6C5	6C6	6C7	6C8	6C9	6CA	6CB	6CC
2057	7C1	7C2	7C3	7C4	7C5	7C6	7C7	7C8	7C9	7CA	7CB	7CC
2058	8C1	8C2	8C3	8C4	8C5	8C6	8C7	8C8	8C9	8CA	8CB	8CC
2059	9C1	9C2	9C3	9C4	9C5	9C6	9C7	9C8	9C9	9CA	9CB	9CC

The key can be continued until the year 2289.

## 2.2 Quarter-manufacturing date (quarter-FD)

No special keys are established for the quarters of the year. If in special cases a quarter manufacturing date is necessary, always the key for the second month in the quarter is used.

Examples:

659 for the 4th quarter 2016	(November 2016 to represent the 4th quarter)
1A5 for the 2nd quarter 2031	(May 2031 to represent the 2nd quarter)

## 2.3 Day-manufacturing date (day-FD)

The day-manufacturing date consists of the 3-digit key for the month and two additional digits at the end for the calendar day.

Examples:

61904 for the 04th of March 2016	( <u>619</u> is the month-FD date and <u>04</u> is the date of the day)
7B719 for the 19th of July 2047	( <u>7B7</u> is the month-FD and <u>19</u> is the date of the day)

## 2.4 Day-manufacturing date (day-FD) with shift code

If a shift code is necessary, one of the figures 1 to 4 is added to the day-manufacturing date for the respective shift as the 6th digit.

Examples:

619043 for the 3rd shift on the 4th of March 2016	(61904 is the day-FD and 3 represents the 3rd shift)
7B7192 for the 2nd shift on the 19th of July 2047	(7B719 is the day-FD and 2 represents the 2nd shift)

## 2.5 Week-manufacturing date (week-FD)

No special codes are established for the week. If a week code suffices as the manufacturing date, the code for the respective Wednesday is used.

Examples:

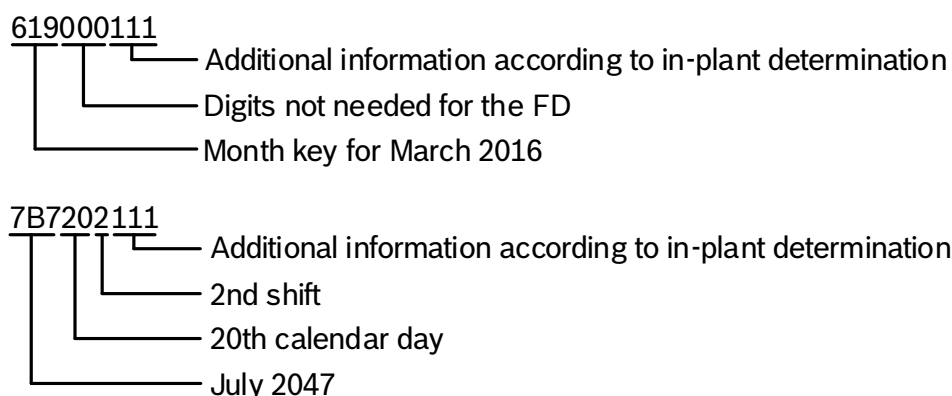
61923 for the 12th calendar week 2016	(Wednesday 2016-03-23)
3B715 for the 29th calendar week 2043	(Wednesday 2043-07-15)

## 2.6 Manufacturing dates with additional information

Information necessary in addition to the manufacturing date (e.g. for production line, test installations etc.) is determined by each plant and added as 7th, 8th and 9th digit as a suffix.

If no day or shift code is to be indicated, digits 4, 5, 6 are filled with zeros. Thus the encrypted manufacturing date with additional information will always appear as a 9-digit symbol.

Figure 1 examples:



### 3 Uncoded manufacturing date

The representation of the uncoded manufacturing date is adopted without any changes from DIN ISO 8601 chapter 4 "Calendar date basic format".

The new version of the DIN ISO 8601 no longer includes the 2-digit representation of the year. This 2-digit representation of the year is no longer permitted for use in the Bosch Group.

Exception:

If space is scarce the 2-digit representation of the year may be used. To avoid a mix-up with the encrypted FD with shift code, a hyphen must be inserted as separator between year and month and possibly between month and day.

Examples exception:

08-03	for March 2008.
08-03-04	for the 4th of March 2008.

#### Transitional arrangement:

The new version has to be used for new projects.

Ongoing projects, products and parts do not have to be converted.

Neither does the form of the date have to be changed for variants of products and parts that already exist.

#### 3.1 Uncoded day-manufacturing date

The uncoded day-manufacturing date is the current day date as per DIN ISO 8601.

Examples:

20080304	for the 04th of March 2008 in basic format as DIN ISO 8601 <u>or</u>
2008-03-04	for the 04th of March 2008 in the extended format per as per DIN ISO 8601.
20270719	for the 19th of July 2027 in the basic format per DIN ISO 8601 <u>or</u>
2027-07-19	for the 19th of July 2027 in the extended format per ISO 8601.

#### 3.2 Uncoded day-manufacturing date with shift code

A 4-digit number is defined in addition to the uncoded day-manufacturing date for the shift code and additional data, and it is placed close to the uncoded manufacturing date, for example in the line below the uncoded manufacturing date.

One of the ciphers 1, 2, 3, 4 is used as the shift code and entered at the first position of the 4-digit number. If no more data is to be given, positions 2, 3, 4 of the number will have to be "zero".

Examples:

20080304	for the 04th of March 2008 in basic format as per DIN ISO 8601
2000	2 represents the 2nd shift, no additional information is given.
or	
2008-03-04	for the 04th of March 2008 in the extended format per as per DIN ISO 8601.
2000	2 represents the 2nd shift, no additional information is given.

#### 3.3 Uncoded day-manufacturing date with additional information

As described in 4.2 shift code and additional information are combined into one 4-digit figure.

Additional information is determined by each plant and added as the 2nd, 3rd and 4th digit of the number. If no shift code is given, the 1st digit of the figure has to be "zero".

Examples:

20270719	for the 19th of July 2027 in the basic format as per DIN ISO 8601
2154	2 represents the 2nd shift, "154" is additional in-plant information.
or	
2027-07-19	for the 19th of July 2027 in the extended format as per ISO 8601.
3154	3 represents the 3rd shift, "154" is additional in-plant information.

3.4 Uncoded month- and quarter- manufacturing date

The uncoded month-manufacturing date is the month date as per ISO 8601.

Examples:

202710                    the month of October 2027 in the basic format as per DIN ISO 8601  
or  
2027-10                   the month of October 2027 in the extended format as per DIN ISO 8601.

The uncoded month-manufacturing date is used as the uncoded quarter-manufacturing date, always for the first month of the quarter.

Examples:

202707                    the month of July 2027 for the 3rd quarter 2027 in the basic format per DIN ISO 8601  
or  
2027-07                   the month of July 2027 for the 3rd quarter 2027 in the extended format per DIN ISO 8601.

4 Drawing data

The required manufacturing date is to be specified on the drawing by the section numbers 2.1 to 2.6 or 3.1 to 3.4.

Example:

"FD as per N41A A4-2.4", if the day-manufacturing date with shift code is required.

If additional information as per 2.6 or 3.3 is required, the corresponding additional information has to be given.

If existing drawings merely state: "FD as per N41A A4", the 3-digit month-FD has been applied so far as per 2.1. If the drawing is changed and the encrypted month-FD remains unchanged, the section number 2.1 of the now outdated drawing data must be attached in order to avoid misunderstandings and unnecessary queries.

Example:

"FD as per N41A A4-2.1".

5 Normative references

The following documents are applicable in addition to this Bosch-Norm. With dated references solely the edition referred to applies. With undated references the last edition of the indicated document applies (including all revisions). Intentionally cited historical documents are additionally identified as "H" in the column "Type."

No.	Document number (edition date)	Title	Type
1	N41A A1	Labeling rules for products and parts	Z
2	DIN ISO 8601 (2006-09)	Data elements and interchange formats – Information interchange – Representation of dates and times	Z

Type: M = document to be supplied; Z = cited document; H = historical document