

Rexroth
Bosch Group

EDI GUIDE

DESADV D99B



Who should read this document?

This document is for EDI-administrators who will implement this EDI-guide to be able to receive EDIFACT despatch advices from Bosch Rexroth AG.

Explanation of usage:

First of all, the usage of each segment has to be considered, so if a segment is mandatory (M), it has to appear in the data file.

It might happen, that a segment itself is optional (O), but the elements within the segment are declared as mandatory. This means, it is not required that the segment is included, but as soon as the segment is in data file, the mandatory fields must be filled.

The same procedure has to be applied to segment groups and segments: A segment group can be optional, while the contained segments are mandatory. In this case all mandatory segments of a segment group has to appear in the data file, if you decide to use this segment group.

In case that in a segment description is listed more than one segment group, you have to read them from bottom to top. The first segment group is that group which contains the segment. The next segment group above is the segment group which contains the previous segment group.

The request of certain segment groups, segments or fields may differ from the description of DESADV D99B like it is distributed from the UNECE. We have changed the request of some elements from optional to mandatory as they are important for our processes.

When a field depends (D) to a special process, information is only needed in such a case and when known.

Segment	Content	M/O	Length		
UNH	Message header	M	1		
BGM	Beginning of message	M	1		
DTM	Date/time/period	O	10		
ALI	Additional information	O	5		
MEA	Measurements	O	5		
MOA	Monetary amount	O	5		
CUX	Currencies	O	9		
	Segment group 1	O	10		1
RFF	Reference	M	1		1
DTM	Date/time/period	O	1		1
	Segment group 2	O	99		2
NAD	Name and address	M	1		2
LOC	Place/location identification	O	10		2
	Segment group 3	O	10	3	2
RFF	Reference	M	1	3	2
DTM	Date/time/period	O	1	3	2
	Segment group 4	O	10	4	2
CTA	Contact information	M	1	4	2
COM	Communication contact	O	5	4	2
	Segment group 5	O	10		5
TOD	Terms of delivery or transport	M	1		5
LOC	Place/location identification	O	5		5
FTX	Free text	O	5		5
	Segment group 6	O	10		6
TDT	Details of transport	M	1		6
PCD	Percentage details	O	6		6
TMD	Transport movement details	O	1		6
	Segment group 7	O	10	7	6
LOC	Place/location identification	M	1	7	6
DTM	Date/time/period	O	10	7	6
	Segment group 8	O	10		8
EQD	Equipment details	M	1		8
MEA	Measurements	O	5		8
SEL	Seal number	O	25		8
EQA	Attached equipment	O	5		8
	Segment group 9	O	10	9	8
HAN	Handling instructions	M	1	9	8
FTX	Free text	O	10	9	8

DETAIL SECTION

	Segment group 10	O	9999						10
CPS	Consignment packing sequence	M	1						10
FTX	Free text	O	5						10
QVR	Quantity variances	O	9						10
									10
	Segment group 11	O	9999						11
PAC	Package	M	1						11
MEA	Measurements	O	10						11
QTY	Quantity	O	10						11
									11
	Segment group 12	O	10						12
HAN	Handling instructions	M	1						12
FTX	Free text	O	10						12
									11
	Segment group 13	O	1000						13
PCI	Package identification	M	1						13
RFF	Reference	O	1						13
DTM	Date/time/period	O	5						13
									13
	Segment group 14	O	99						14
GIR	Related identification number	M	1						14
DTM	Date/time/period	O	5						14
									13
	Segment group 15	O	99						15
GIN	Goods identity number	M	1						15
DLM	Delivery limitations	O	10						15
									13
	Segment group 16	O	99						16
COD	Component details	M	1						16
MEA	Measurements	O	9						16
QTY	Quantity	O	9						16
PCD	Percentage details	O	9						16
									13
									11
	Segment group 17	O	9999						17
LIN	Line item	M	1						17
PIA	Additional product id	O	10						17
IMD	Item description	O	25						17
MEA	Measurements	O	10						17
QTY	Quantity	O	10						17
ALI	Additional information	O	10						17
GIN	Goods identity number	O	100						17
GIR	Related identification number	O	100						17
DLM	Delivery limitations	O	100						17
DTM	Date/time/period	O	5						17
NAD	Name and address	O	99						17
TDT	Details of transport	O	1						17
TMD	Transport movement details	O	1						17
HAN	Handling instructions	O	20						17
FTX	Free text	O	99						17
MOA	Monetary amount	O	5						17
									17
	Segment group 18	O	99						18
RFF	Reference	M	1						18
NAD	Name and address	O	1						18
CTA	Contact information	O	1						18
DTM	Date/time/period	O	1						18

					17	10
	Segment group 19	O	9999	19	17	10
DGS	Dangerous goods	M	1	19	17	10
QTY	Quantity	O	1	19	17	10
FTX	Free text	O	5	19	17	10
					17	10
	Segment group 20	O	100	20	17	10
LOC	Place/location identification	M	1	20	17	10
NAD	Name and address	O	1	20	17	10
DTM	Date/time/period	O	1	20	17	10
QTY	Quantity	O	10	20	17	10
					17	10
	Segment group 21	O	1000	21	17	10
SGP	Split goods placement	M	1	21	17	10
QTY	Quantity	O	10	21	17	10
					17	10
	Segment group 22	O	9999	22	17	10
PCI	Package identification	M	1	22	17	10
DTM	Date/time/period	O	5	22	17	10
MEA	Measurements	O	10	22	17	10
QTY	Quantity	O	1	22	17	10
					22	17
	Segment group 23	O	10	23	17	10
GIN	Goods identity number	M	1	23	17	10
DLM	Delivery limitations	O	100	23	17	10
					22	17
	Segment group 24	O	10	24	17	10
HAN	Handling instructions	M	1	24	17	10
FTX	Free text	O	5	24	17	10
GIN	Goods identity number	O	1000	24	17	10
					17	10
	Segment group 25	O	10	25	17	10
QVR	Quantity variances	M	1	25	17	10
DTM	Date/time/period	O	5	25	17	10

SUMMARY SECTION

CNT	Control total	O	5
UNT	Message trailer	M	1

UNB Interchange Header		M	1		
Function To start, identify and specify an interchange					
S001	SYNTAX IDENTIFIER	M	1		
0001	Syntax identifier	M		an..4	UNOC
0002	Syntax version number	M		a..1	1
S002	INTERCHANGE SENDER	M	1		
0004	Sender identification	M		an..35	your sender id
0007	Partner identification	M		an..4	your partner id
0008	Adress for reverse routing	O		an..14	
S003	INTERCHANGE RECIPIENT	M	1		
0010	Recipient Identification	M		an..35	ECCREX
0007	Partner identification	M		an..4	ZZ
0014	Routing adress	O		an..14	
S004	DATE/TIME OF PREPARATION	M	1		
0017	Date	M		n..6	YYMMDD
0019	Time	M		n..4	HHMM
0020	INTERCHANGE CONTROL REFERENCE	M	1	an..14	unique reference assigned by sender
S005	RECIPIENTS REFERENCE, PASSWORD	O	1		
0022	Recipients reference, password	M		an..14	as specified
0025	Recipients reference, password qualifier	O		an..2	
0026	APPLICATION REFERENCE	O	1	an..14	
0029	PROCESSING PRIORITY CODE	O	1	an..1	
0031	ACKNOWLEDGEMENT REQUEST	O	1	n..1	
0032	COMMUNICATIONS AGREEMENT ID	O	1	an..35	
0035	TEST INDICATOR	O	1	n..1	

Example: UNB+UNOC:1+123456:AB+ECCREX:ZZ+030905:1058+1024+1024'

UNH		Message header		M	1	
Function: To head, identify and specify a message						
0062	MESSAGE REFERENCE NUMBER	M		an..14	Contains a unique alphanumerical identification of a message	
S009						
MESSAGE IDENTIFIER		M	1			
0065	Message type	M		an..6	DESADV	
0052	Message version number	M		an..3	D	
0054	Message release number	M		an..3	99B	
0051	Controlling agency	M		an..2	UN	
0057	Association assigned code	O		an..6		
S010						
STATUS OF THE TRANSFER		O	1			
0070	Sequence of transfers	M		n..2		
0073	First and last transfer	O				

Example: UNH+00002406000001+DESADV:D:99B:UN'

BGM		Beginn of Message		M	1	
Function: The segment is used to transfer the order number						
1131	Code list identification code	O		an..3		
C106	DOCUMENT/MESSAGE IDENTIFICATION	O	1			
1004	Document/message number	M		an..3	number of despatch advice	
1056	Version	O		an..9		
1060	Revision number	O		an..6		
1225	MESSAGE FUNCTION CODE	M	1	an..3	9 = original	
4343	RESPONSE TYPE CODE	O	1	an..3		

Example: BGM+351+12345678+9'

DTM		Date / Time / Period		M	35
Function: To specify date, and/or time, or period.					
C507	DATE/TIME/PERIOD	M	1		
2005	Date/time/period function code qualifier	M		an..3	(M) 35 = delivery date, actual (O) 137 = document date
2380	Date/time/period value	M		an..35	date according to qualifier
2379	Date/time/period format code	M		an..3	"102" = YYYYMMDD

Example: DTM+137:20030902:102'

MEA		Measurements		O	10	
Function: To identify and describe a specific characteristic						
6311	MEASUREMENT ATTRIBUTE CODE	M	1	an..3	AAH = dimensions total weight	
C502	MEASUREMENT DETAILS	O	1			
6313	Measured attribute code	M		an..3	(M) AAC = total net weight (M) AAD = total gross weight	
6321	Measurement significance, coded	O		an..3		
6155	Non-discrete measurement name code	O		an..1		
6154	Non-discrete measurement name	O		an..7		
C174	VALUE/RANGE	O	1			
6411	Measurement unit code	M		an..3	KGM = kilogram	
6314	Measurement value	O		an..18	amount	
6162	Range minimum	O		n..18		
6152	Range maximum	O		n..18		
6432	Significant digits	O		n..2		
7383	SURFACE/LAYER CODE	O	1	an..3		

Example: MEA+AAH+AAD+KGM:1500'

Segment-Group: 1

RFF		Reference		O 9999	
Function: To specify a reference.					
C506	REFERENCE	M	1		
1153	Reference function code qualifier	M		an..3	(M) ON = order number (customer) (D) COF = Call off order number (Sequenced JIT Calls)
1154	Reference identifier	M		an..35	Doc. Number
1156	Line number	O		an..6	
4000	Reference version identifier	O		an..35	
1060	Revision number	O		an..6	

Example: RFF+ON:451235450'

Segment Group: 2 (M)

NAD		Name and address		M	1	
Function: To specify the name/address and their related function						
3035	PARTY FUNCTION CODE QUALIFIER	M	1	an..3	(M) BY = buyer (M) CN = consignee (ship to) (M) SU = supplier	
C082	PARTY IDENTIFICATION DETAILS	O	1			
3039	Party identifier	M		an..35	party identification	
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C058	NAME AND ADDRESS	O	1			
3124	Name and address line	M		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
C080	PARTY NAME	O	1			
3036	Party name	M		an..35	name1	
3036	Party name	O		an..35	name2	
3036	Party name	O		an..35	name3	
3036	Party name	O		an..35	name4	
3036	Party name	O		an..35		
3045	Party name format code	O		an..3		
C059	STREET	O	1			
3042	Street and number/p.o. box	M		an..35	street an number or P.O. box	
3042	Street and number/p.o. box	O		an..35	street an number or P.O. box	
3042	Street and number/p.o. box	O		an..35	P.O. box	
3042	Street and number/p.o. box	O		an..35		
3164	CITY NAME	O	1	an..35	city	
C819	COUNTRY SUB-ENTITY DETAILS	O	1			
3229	Country sub-entity name code	O		an..9		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
3228	Country sub-entity name	O		an..35		
3251	POSTAL IDENTIFICATION CODE	O	1	an..17	postcode identification	
3207	COUNTRY NAME CODE	M	1	an..3	DE = German EN = English FR = French (other ISO-Codes can be agreed)	

Example: NAD+CN+7084++BRI LOHR:BOSCH REXROTH AG+ZUM EISENGIESSER 1+LOHR++97816+DE'

Segment-Group: 5 (O)

TOD		Terms of Delivery and Transport		O	5
Function: To specify terms of delivery or transport.					
4055	TERMS OF DELIVERY OR TRANSPORT FUNC	C	1	an..3	5 = Transport Condition
4215	TRANSPORT CHARGES PAYMENT METHOD C	C	1	an..3	CC = collcet
C100	TERMS OF DELIVERY OR TRANSPORT	C	1		
4053	Delivery or transport terms description code	C		an..3	transport mode
1131	Code list identification code	C		an..3	
3055	Code list responsible agency code	C		an..3	
4052	Delivery or transport terms description	C		an..70	description
4052	Delivery or transport terms description	C		an..70	

Example: TOD+5+CC+01:::seafreight'

Segment-Group: 10 (M)

CPS CONSIGNMENT PACKING SEQUENCE M 9999					
Function: To identify the sequence in which physical packing is presented and optionally to identify the hierarchical relationship between packing layers					
7164	HIERARCHICAL STRUCTURE LEVEL IDENTIFI	M	1	an..35	sequential number
7166	HIERARCHICAL STRUCTURE PARENT IDENTI	C	1	an..35	
7075	PACKAGING LEVEL, CODED	C	1	an..3	3 = outer 4 = no hierarchy

Example: CPS+1++4'

Segment-Group: 11 (O)

PAC		Package		O/M 9999	
Function: To describe the number and type of packages/physical units This segment is not created if the idocs contains no packing data					
7224	NUMBER OF PACKAGES	C	1	n..8	number of packages
C531	PACKAGING DETAILS	C	1		
7075	Packaging level, coded	C		an..3	3 = outer 4 = no hierarchy
7233	Packaging related description code	C		an..3	
7073	Packaging terms and conditions, coded	C		an..3	
C202	PACKAGE TYPE	C	1		
7065	Package type description code	C		an..17	material number of handling unit
1131	Code list identification code	C		an..3	146 = means of transport id
3055	Code list responsible agency code	C		an..3	91 = assigned by seller
7064	Type of packages	C		an..35	
C402	PACKAGE TYPE IDENTIFICATION	C	1		
7077	Item description type, coded	M		an..3	F = free form
7064	Type of packages	M		an..35	Package material no. Customer
7143	Item type identification code	C		an..3	EF = material code
7064	Type of packages	M		an..35	
7143	Item type identification code	C		an..3	AK = Pack
C532	RETURNABLE PACKAGE DETAILS	C	1		
8395	Returnable package freight payment responsibility, coded	C		an..3	
8393	Returnable package load contents, coded	C		an..3	

Example: PAC+1+4+R123456789:146:91+C:1000249422'

Segment-Group: 11 (O)

MEA		Package		O 9999	
Function: To specify physical measurements, including dimension tolerances, weights and counts This segment is not created if no packing data is transferred					
6311	MEASUREMENT ATTRIBUTE CODE	M	1	an..3	AAI = Item weight
C502	MEASUREMENT DETAILS	C	1		
6313	Measured attribute code	C		an..3	AAB = Unit gross weight
6321	Measurement significance, coded	C		an..3	4 = equal to
6155	Non-discrete measurement name code	C		an..17	
6154	Non-discrete measurement name	C		an..70	
C174	VALUE/RANGE	C	1		
6411	Measurement unit code	M		an..3	CMT = centimeter GRM = gram LTR = litre MTR = metre MLT = millimetre NMP = package NPL = parcel PCE = piece BAR = plate KGM = kilogram
6314	Measurement value	C		an..18	gross weight
6162	Range minimum	C		n..18	
6152	Range maximum	C		n..18	
6432	Significant digits	C		n..2	
7383	SURFACE/LAYER CODE	C	1	an..3	

Example: MEA+AAI+AAB:4+KGM:14.800'

Segment-Group: 17 (M)

LIN		Line item		M 9999	
Function: To identify a line item and configuration					
1082	LINE ITEM NUMBER	M	1	an..6	line item number
1229	ACTION DESCRIPTION CODE	O	1	an..3	1 = new
C212	ITEM NUMBER IDENTIFICATION	O	1		
7140	Item number	M		an..3	customers article number
7143	Item type identification code	M		an..3	BP = buyer's part number
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
C829	SUB-LINE INFORMATION	O	1		
5495	Sub-line indicator, coded	O		an..3	
1082	Line item number	O		an..6	
1222	CONFIGURATION LEVEL	O	1	n..2	
7083	CONFIGURATION, CODED	O	1	an..3	

Example: LIN+10+1+R123456789:BP'

Segment Group: 17 (M)

PIA Additional product id O 10					
Function: To specify additional or substitutional item identification codes					
4347	PRODUCT ID. FUNCTION QUALIFIER	M	1	an..3	5 = product identification
C212	ITEM NUMBER IDENTIFICATION	M	1		
7140	Item number	M		an..35	material number (vendor)
7143	Item type identification code	M		an..3	SA = suppliers article
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
C212	ITEM NUMBER IDENTIFICATION	O	1		
7140	Item number	O		an..35	
7143	Item type identification code	O		an..3	
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
C212	ITEM NUMBER IDENTIFICATION	O	1		
7140	Item number	O		an..35	
7143	Item type identification code	O		an..3	
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
C212	ITEM NUMBER IDENTIFICATION	O	1		
7140	Item number	O		an..35	
7143	Item type identification code	O		an..3	
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
C212	ITEM NUMBER IDENTIFICATION	O	1		
7140	Item number	O		an..35	
7143	Item type identification code	O		an..3	
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	

Example: PIA+5+02433711:SA'

Segment Group: 17 (M)

IMD		Item description		O	25	
Function: To describe an item						
7077	ITEM DESCRIPTION TYPE, CODED	M	1	an..3	F = free text	
C272	ITEM CHARACTERISTIC	M	1			
7081	Item characteristic code	M		an..3	8 = product	
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	M		an..3	91 = assigned by seller	
C273	ITEM DESCRIPTION	O	1			
7009	Item description identification	O		an..17		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
7008	Item description	O		an..256	material description - short text	
7008	Item description	O		an..256	material description - short text	
3453	Language name code	O		an..3		
7383	SURFACE/LAYER CODE	O	1	an..3		

Example: IMD+F+8::91+:::valve'

Segment Group: 17 (M)

QTY		Quantity		M	10
Function: To specify a quantity					
C186	QUANTITY DETAILS	M	1		
6063	Quantity type code qualifier	M		an..3	131 = delivery quantity
6060	Quantity	M		an..35	quantity
6411	Measurement unit code	M		an..3	CMT = centimeter GRM = gram LTR = litre MTR = metre MLT = millimetre NMP = package NPL = parcel PCE = piece BAR = plate KGM = kilogram

Example: QTY+131:10:PCE'

Segment Group: 17 (M)

FTX		Free text		O		99	
Function: Free text							
4451	TEXT SUBJECT CODE QUALIFIER	M	1	an..3	LIN = Line item text		
4453	TEXT FUNCTION, CODED	O	1	an..3			
C107							
TEXT REFERENCE		O		1			
4441	Free text value code	M		an..17			
1131	Code list identification code	O		an..3			
3055	Code list responsible agency code	O		an..3			
C108							
TEXT LITERAL		O		1			
4440	Free text value	M		an..512	aditonal text		
4440	Free text value	O		an..512	aditonal text		
4440	Free text value	O		an..512	aditonal text		
4440	Free text value	O		an..512	aditonal text		
4440	Free text value	O		an..512	aditonal text		
3453	LANGUAGE NAME CODE	O	1	an..3	DE = German EN = English FR = French		
4447	TEXT FORMATTING, CODED	O	1	an..3			

Example: FTX+LIN++ *** line item text *** +DE'

Segment Group: 18 (M)

RFF		Reference		M 9999	
Function: To specify a reference.					
C506	REFERENCE	M	1		
1153	Reference function code qualifier	M		an..3	(M) ON = Order Number (O) SE = Serial Number (D) COF = Call off order number (Sequenced JIT Calls)
1154	Reference identifier	M		an..35	Doc. number
1156	Line number	M		an..6	Doc. line number
4000	Reference version identifier	O		an..35	
1060	Revision number	O		an..6	

Example: RFF+ON:10258:00010'

CNT Control total		O	10		
Function: number of line items					
C270	CONTROL	M	1		
6069	Control total type code qualifier	M		an..3	2 = number of line items
6066	Control value	M		n..18	value
6411	Measurement unit code	O		an..3	

UNT		Message trailer		M	1	
Function: To end and check the completeness of a message						
0074	NUMBER OF SEGMENTS IN THE MESSAGE	M	1	n..6	number of segments	
0062	MESSAGE REFERENCE NUMBER	M	1	an..14	message reference (like UNH)	

Example: UNT+76+00002406000001'

UNZ Interchange trailer		M	1		
Function: To end and check the completeness of an interchange					
0036	INTERCHANGE CONTROL COUNT	M	1	n..6	The count of the number of messages
0020	INTERCHANGE CONTROL REFERENCE	M	1	an..14	identical to 0020 in UNB

Example: UNZ+2+1024'

Version: 1.7