

GRAINGER

Electronic Data Interchange

Transaction Set: 860 Supplier Purchase Order Change - SPS
ANSI X12 Version 4010

This specification covers the requirements for Grainger and our Business Units.
Grainger Parts
Grainger FindMRO

860 Purchase Order Change

Functional Group ID=**PC**

Heading:

Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
ST	Transaction Set Header	M	1		
BCH	Beginning Segment for Purchase Order Change	M	1		
REF	Reference Identification	M	1		
PER	Administrative Communications Contact	M	1		
FOB	F.O.B. Related Instructions	M	1		
ITD	Terms of Sale/Deferred Terms of Sale	O	1		
TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
LOOP ID - N9			1000		
N9	Reference Identification	M	1		
MSG	Message Text	M	5		MSG segment can occur up to 5 occurrences
LOOP ID - N1			200		
N1	Name	M	1		
N2	Additional Name Information	M	1		
N3	Address Information	M	1		
N4	Geographic Location	M	1		

Detail:

Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - POC			>1		
POC	Line Item Change	M	1		
LOOP ID - PID			1000		
PID	Product/Item Description	M	1		
MSG	Message Text	O			Will have only 1 occurrence of the MSG segment
LOOP ID - SCH			200		
SCH	Line Item Schedule	M	1		

Summary:

Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - CTT			1		
CTT	Transaction Totals	M	1		
AMT	Monetary Amount	M	1		

SE	Transaction Set Trailer	M	1
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Segment: **ST** Transaction Set Header
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Comments:

Data Element Summary			
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		860 Purchase Order Change Request - Buyer Initiated	
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **BCH** Beginning Segment for Purchase Order Change
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Change Transaction Set and transmit identifying numbers and dates

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
BCH01	353	Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		01 Cancellation	
		04 Change	
BCH02	92	Purchase Order Type Code	M ID 2/2
		Code specifying the type of Purchase Order	
		CP Change to Purchase Order	
BCH03	324	Purchase Order Number	M AN 1/15
		Note:	
		Starting PO sequences will be unique based by Business	
		Unit:	
		➤ 4600000000 = Grainger	
		➤ 4400000000 = Grainger Parts	
		➤ 4810000000 = Grainger FindMRO	
BCH04	328	Grainger Sales Order Number	O AN 1/10
		Notes:	
		➤ This segment will be populated for Third Party Orders, and may be populated for Branch Orders.	
		➤ The Grainger sales order number is required on the packing list.	
BCH05	327	Change Order Sequence Number	O AN 1/8
		Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	
BCH06	373	Purchase Order Date	M DT 8/8
		Date expressed as CCYYMMDD	
BCH07	326	Grainger Purchasing Organization	M AN 1/45
		The following values will indicate what Grainger Business Unit the purchase is for	
		➤ PSAL = Grainger	
		➤ PART = Grainger Part	
		➤ FIND = Grainger FindMRO	
BCH08	367	Grainger Internal Supplier Number	O AN 1/20

Segment: **REF** Reference Identification
Level: Heading
Usage: Mandatory
Purpose: To specify identifying information

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier	M ID 2/3
		IA Grainger Internal Supplier Number	
REF02	127	Reference Identification	M AN 1/20
		Grainger Internal Supplier Number	

Segment: **PER** **Administrative Communications Contact**
Level: Heading
Usage: **Mandatory**
Purpose: To identify a person or office to whom administrative communications should be directed
Comments:

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department	M ID 2/2
PER02	93	Grainger Buyer Name Free-form name	M AN 1/18
PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
PER04	364	Grainger Buyer Phone Number Complete communications number including country or area code when applicable	X AN 1/20
PER05	365	Communication Number Qualifier Code identifying the type of communication fax number FX Fax number	X ID 2/2
PER06	364	Grainger Fax Number Complete communications number including country or area code when applicable	X AN 1/20
PER07	365	Communication Email Qualifier EM Email address	X ID 2/2
PER08	364	Grainger Buyer Email Address	X AN 1/40

New

Segment: **FOB** **F.O.B. Related Instructions**
Level: Heading
Usage: **Mandatory**
Purpose: To specify transportation instructions relating to shipment

Data Element Summary			
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges PO Prepaid Prepaid with exception CC Collect Collect with exception Collect and allowed Consignee collect PA Prepaid and add	M ID 2/2
FOB02	309	Location Qualifier Code identifying type of location DE Destination OA Origin	X ID 1/2
FOB05	335	Transportation Terms Description FOB = Free on board	X ID 3/3

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Level: Heading
Usage: Optional
Purpose: To specify terms of sale

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
ITD12	352	Description	O AN 1/70
		A free-form description to provide payment terms	

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)
Level: Heading
Usage: Optional – Note: This segment will be populated for Third Party orders
Purpose: To specify the carrier and sequence of routing and provide transit time information

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
TD502	66	Identification Code Qualifier	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		ZZ Carrier code qualifier	
TD503	67	Grainger Carrier Codes	M AN 2/10
		Grainger carrier code values	
TD505	387	Grainger Carrier Code Descriptions	M AN 1/35
		Description of the routing or requested routing for shipment, or the originating carrier's identity	

Notes:

Refer to the carrier code location spreadsheet for a listing of all Grainger carrier codes.

Segment: **N9** Reference Identification
Level: Heading
Usage: **Mandatory**
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Data Element Summary			
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N901	128	Reference Identification Qualifier Code qualifying the Reference Identification L1 Letters or Notes	M ID 2/3
N903	369	Free-form Description Refer to MSG segment	M AN 1/20

Segment: **MSG** Message Text
Level: Heading
Usage: **Mandatory – Note: This segment can repeat up to 5 occurrences**
Purpose: To provide a free-form format that allows the transmission of text information

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MSG01	933	Free-Form Message Text	M AN 1/264

Note:
 The MSG can repeat up to 5
 occurrences

Segment: **N1** Name
Level: Heading
Usage: **Mandatory**
Purpose: To identify a party by type of organization, name, and code

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To	M ID 2/3
N102	93	Name Free-form name	M AN 1/40
N103	66	Identification Code Qualifier- Required for ST loop 92	M ID 1/2

Note:
 The N103 will only be populated for
 the ST loop.

N104	67	Grainger Plant Code- Required for ST loop	M AN 3/4
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Note:
 The N104 will only be populated
 for the ST loop.

Grainger plant code
 Refer to Grainger plant location spreadsheet for a listing of all Grainger plant locations

Segment: **N2** Additional Name Information
Level: Heading
Usage: **Mandatory – Note: Segment only required for the ST loop**
Purpose: To specify additional names or those longer than 35 characters in length

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
N201	93	Name	M AN 1/40
N202	93	Name	0 AN 1/40

Segment: **N3** Address Information
Level: Heading
Usage: **Mandatory – Note: Segment only required for the ST loop**
Purpose: To specify the location of the named party

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N301	166	Address Information	M AN 1/40
		Address information	
N302	166	Address Information	O AN 1/40
		Address information	

Segment: **N4** Geographic Location
Level: Heading
Usage: **Mandatory – Note: Segment only required for the ST loop**
Purpose: To specify the geographic place of the named party

Data Element Summary			
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	M AN 2/30
N402	156	State or Province Code	M ID 2/2
N403	116	Postal Code	M ID 3/9
N404	26	Country Code	M ID 2/3

Segment: **POC** Line Item Change
Level: Detail
Usage: Mandatory
Purpose: To specify changes to a line item

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
POC01	350	Grainger Purchase Order Line Number	M AN 1/5
POC02	670	Change or Response Type Code	M ID 2/2
		Code specifying the type of change to the line item	
		AI Add Additional Item(s)	
		CA Changes To Line Items	
		DI Delete Item(s)	
POC03	330	Quantity Ordered	M R 1/15
POC04	671	Quantity Left to Receive	M R 1/9
POC05	C001	Unit of Measure	M
POC06	212	Unit Price	M R 1/17
POC08	235	Grainger Stock Number Qualifier	M ID 2/2
		CB Grainger stock number	
POC09	234	Grainger Stock Number	M AN 5/10
POC10	235	Vendor Item Number Qualifier	M ID 2/2
		VN Vendor item number	
POC11	234	Vendor Item Number	M AN 1/35
POC12	235	Manufacturers Part Number Qualifier	O ID 2/2
		MG Manufacturer's part number	
POC13	234	Manufacturer Part Number	O AN 1/40
POC14	235	UPC/EAN Code – For Future Use	O ID 2/2
		UD U.P.C./EAN Consumer Package Code (2-5-5)	

Note:

This segment is a place holder for future use by Grainger and our suppliers.

POC15	234	UPC/EAN Consumer Package Code – For Future Use	O AN 1/25
		UPC/EAN Consumer Package Code	

Note:

This segment is a place holder for future use by Grainger and our suppliers.

Segment: **PID** **Product/Item Description**
Level: Detail
Usage: **Mandatory**
Purpose: To describe a product or process in coded or free-form format

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
PID01	349	Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
PID05	352	Description	M AN 1/60
		A free-form item description	

Segment: **MSG** Message Text
Level: Detail
Usage: **Optional – Note: This segment can have a single occurrence per line item**
Purpose: To provide a free-form format that allows the transmission of text information

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MSG01	933	Free-Form Message Text	M AN 1/264

Note: This segment can have a single occurrence per line item

Free-form message text

Segment: **SCH** Line Item Schedule

Level: Detail

Usage: **Mandatory – Note: On any given PO line item (PO1) on a purchase order, it will have a single instance of an SCH segment.**

For Future use, there can be instances where a single PO1 line can have multiple occurrences of an SCH segment.

Purpose: To specify the data for scheduling a specific line-item

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SCH01	380	Quantity	M R 1/15
		Numeric value of quantity	
SCH02	355	Unit or Basis for Measurement Code	M ID 2/2
SCH05	374	Date/Time Qualifier	M ID 3/3
		010 Requested Ship	
SCH06	373	Date	M DT 8/8
		Date expressed as CCYYMMDD	

Segment: **CTT** Transaction Totals
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CTT01	354	Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	

Segment: **AMT** Monetary Amount
Level: Summary
Usage: Mandatory
Purpose: To indicate the total monetary amount

Data Element Summary			
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
AMT01	522	Amount Qualifier Code Code to qualify amount TT Total Transaction Amount	M ID 1/3
AMT02	782	Monetary Amount Monetary amount	M R 1/18

Segment: **SE** Transaction Set Trailer
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
SE02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Sample 860Grainger Purchase Order Change

ISA*00* *00* *ZZ*005103494 *ZZ*SUPPLIER *040720*1900*U*00401*000000209*0*P*<~
GS*PC*005103494*SUPPLIER*20041001*1832*0001*X*004010~
ST*860*000000001~
BCH*04*CP*4200000000*GRAINGER SALES ORDER NUMBER*CHANGE ORDER SEQUENCE
NUMBER*20041001*PSAL*2000XXXX~
REF*IA*2000XXXX~
PER*BD*GRAINGER BUYER NAME*TE*BUYER PHONE NUMBER*FX*BUYER FAX
NUMBER*EM*BUYER EMAIL ADDRESS~
FOB*PO*DE***FOB~
ITD*****PAYMENT TERMS~
TD5**ZZ*GRAINGER FREIGHT CODE*GRAINGER FREIGHT CODE DESCRIPTION~
N9*L1*REFER TO MSG SEGMENT~
MSG*FREE FORM MESSAGE TEXT~
MSG*FREE FORM MESSAGE TEXT~
MSG*FREE FORM MESSAGE TEXT~
MSG*FREE FORM MESSAGE TEXT~
MSG*FREE FORM MESSAGE TEXT~
N1*ST*SUPPLIER NAME*92*GRAINGER PLANT CODE~
N2*ATTENTION NAME 1*ATTENTION NAME 2~
N3*SHIP TO ADDRESS 1*SHIP TO ADDRESS2~
N4*CITY*STATE*ZIPCODE*COUNTRY CODE~
POC*00001*CA*10*5*EA*1.00**CB*GRAINGER STOCK NUMBER*VN*VENDOR ITEM
NUMBER*MG*MANUFACTURER PART NUMBER~
PID*F****ITEM DESCRIPTION~
MSG*FREE FORM MESSAGE TEXT~
SCH*10*EA***010*20041010~
POC*00002*CA*20*5*EA*1.00**CB*GRAINGER STOCK NUMBER*VN*VENDOR ITEM
NUMBER*MG*MANUFACTURER PART NUMBER~
PID*F****ITEM DESCRIPTION~
MSG*FREE FORM MESSAGE TEXT~
SCH*10*EA***010*20041010~
CTT*2~
AMT*TT*TOTAL AMOUNT OF PURCHASE ORDER CHANGE~
SE*28*000000001~
GE*1*0001~
IEA*1*000000209~