

GRAINGER

Electronic Data Interchange

Transaction Set: 855 Supplier Purchase Order Acknowledgement ***ANSI X12 Version 4010***

This specification covers the requirements for Grainger and its Business Units.

Grainger Industrial Supply
Grainger Parts
Grainger Sourcing (FindMRO)

855 Purchase Order Acknowledgment Functional Group ID=PR

Introduction:

The following Grainger specification contains the format and establishes the data contents of the Purchase Order Acknowledgment Transaction Set (855) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to a seller's acknowledgment of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order. This usage advises a buyer that a vendor has or will ship merchandise as prearranged in their partnership.

Header:

Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
ST	Transaction Set Header	M	1	
BAK	Beginning Segment for Purchase Order	M	1	
REF	Reference Identification	M/O	6	
PER	Administrative Communications Contact	M/O	3	
LOOP ID - N1				200
N1	Name	M	1	
N2	Additional Name Information	O	1	
N3	Address Information	M	1	
N4	Geographic Location	M	1	

Detail:

Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
LOOP ID - PO1				100000
PO1	Baseline Item Data	M	1	
PID	Product/Item Description	M	1000	
FOB	F.O.B Related Instructions	M	1	
TD5	Carrier Details (Routing Sequence/Transit Time)	O	1	
TD4	Carrier Details (Special Handling)	O		
LOOP ID - ACK				200
ACK	Line Item Acknowledgment	M	104	
LOOP ID - SCH				200
SCH	Line Item Schedule	M	1	
LOOP ID - N9				1000
N9	Reference Identification	M	1	
MSG	Message Text	M	>1	

Summary:

Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
LOOP ID - CTT				1
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

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

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		855 Purchase Order Acknowledgment	
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: **BAK** Beginning Segment for Purchase Order Acknowledgment
Position: 020
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
BAK01	353	Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		00 Original	
		04 Change	
BAK02	587	Acknowledgment Type	M ID 2/2
		Code specifying the type of acknowledgment	
		AC Acknowledge - With Detail and Change	
		AD Acknowledge - With Detail, No Change	
		RD Reject with Detail	
BAK03	324	Purchase Order Number	M AN 1/22
		Identifying number for Purchase Order assigned by the buyer	
BAK04	373	Date	M DT 8/8
		Date expressed as CCYYMMDD	
BAK08	127	Reference Identification	O AN 1/30
		Grainger Sales Order Number (This segment is populated in BEG04 of the 850 for Third Party Orders only)	

Segment: **REF** **Reference Identification**
Level: Heading
Usage: **See below for Mandatory / Optional Usage**
Purpose: To specify identifying information

Data Element Summary				
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>	
REF01	128	Reference Identification Qualifier	ID 2/3	
Usage/Notes:		Code qualifying the Reference Identification		
Mandatory		IA	Grainger Internal Supplier Number	AN 8/8
Optional – Third Party PO only		KD	Grainger Brand Organization Code Value	
Optional – Third Party PO only		IT	Grainger Customer Purchase Order Number	
REF02	127	Reference Identification	X	AN 1/30
Refer to the above notes				

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

Data Element Summary				
Ref.	Data	Name	Attributes	
<u>Des.</u>	<u>Element</u>			
PER01	366	Contact Function Code	ID 2/2	
		BD Grainger Buyer Name	M	
		CN Grainger Customer Contact	O	
		DI Grainger Customer Delivery Contact	O	
PER02	93	Name	M	AN 1/60
		Free-form name		
PER03	365	Communication Number Qualifier	X	ID 2/2
		Code identifying the type of communication number		
		TE Telephone		
PER04	364	Phone Number	X	AN 1/20
		Complete communications number including country or area code when applicable		
PER05	365	Communication Number Qualifier	X	ID 2/2
		Code identifying the type of communication fax number		
		FX Fax number		
PER06	364	Fax Number	X	AN 1/20
		Complete communications number including country or area code when applicable		
PER07	365	Communication Email Qualifier	X	ID 2/2
		EM Email address		
PER08	364	Email Address	X	AN 1/40

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

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual VN Vendor SF Ship From (Vendor) ST Ship To	M ID 2/2
N102	93	Name Free-form name	M AN 1/40
N103	66	Identification Code Qualifier- Required for ST loop 92	M ID 2/2
N104	67	Grainger Plant Code- Required for ST loop Grainger plant code	M AN ¾

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

Note: The N104 will only be populated for the ST loop.

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

Segment: **N2** Additional Name Information
Level: Heading
Usage: Optional/Used for SF and ST loops only
Purpose: To specify additional names or those longer than 35 characters in length

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N201	93	Name	O AN 1/60
		Free-form name	

Segment: **N3** Address Information
Level: Heading
Usage: Mandatory/Used for SF and ST loops only
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 1/55
		Address information	

Segment: **N4 Geographic Location**
Level: Heading
Usage: **Mandatory/Used for SF and ST loops only**
Purpose: To specify the geographic place 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>		
N401	19	City Name Free-form text for city name	M AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M ID 3/15
N404	26	Country Code	M ID 2/3

Segment: **PO1** **Baseline Item Data**
Level: Detail
Usage: **Mandatory**
Purpose: To specify basic and most frequently used line item data
Comments: It is Grainger's expectation any PO1 data generated to the supplier via the EDI 850 PO will be returned in this segment.

Data Element Summary					
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>		
<u>Des.</u>	<u>Element</u>				
	PO101	350	Grainger Purchase Order Line Number	M	AN 5/5
	PO102	330	Quantity Ordered	M	R 1/15
	PO103	355	Unit or Basis for Measurement Code	M	ID 2/2
	PO104	212	Unit Price	M	R 1/17
	PO106	235	Grainger Stock Number Qualifier	M	ID 2/2
		CB	Grainger Stock Number Grainger Sourcing (FindMRO) Stock Number		
	PO107	234	Grainger Stock Number or Grainger Sourcing (FindMRO) Stock Number	M	AN 5/10
				O	ID 2/2
	PO108	235	Vendor Item Number Qualifier		
		VN	Vendor item number		
	PO109	234	Vendor Item Number	O	AN 1/35
	PO110	235	Grainger Customer Material Number Qualifier	O	ID 2/2
		CP	Grainger customer material number		
	PO111	234	Grainger Customer Material Number	O	AN 1/35
	PO112	235	Grainger Customer Purchase Order Line Number Qualifier	O	ID 2/2
		PL	Grainger customer PO line number		
	PO113	234	Grainger Customer Purchase Order Line Number	O	AN 1/6
	PO114	235	Manufacturers Model Number Qualifier	O	ID 2/2
		MN	Manufacturer model number		
	PO115	234	Manufacturer's Model Number	O	AN 1/40
	PO116	235	Manufacturer's Part Number Qualifier	O	ID 2/2
		MG	Manufacturer's part number		

PO117	234	Manufacturer's Part Number	O	AN 1/40
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Note: This segment is a place holder for future use by Grainger and its suppliers.

PO118	235	UPC/EAN Code – For Future Use	O	ID 2/2
		UD UPC./EAN consumer package code (2-5-5)		

PO119	234	UPC/EAN Consumer Package Code – For Future Use	O	AN 1/25
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Note: This segment is a place holder for future use by Grainger and its 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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
PID01	349	Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
PID05	352	Item Description	M AN 1/60
		A free-form item description	

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

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
FOB01	146	Shipment Method of Payment	M ID 2/2
		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	
		TP Third Party Pay	
FOB02	309	Location Qualifier	M ID 1/2
		Code identifying type of location	
		DE Destination	
		OA Origin	
FOB03	352	Third Party Pay/Collect Account Number	O AN 1/80
		If FOB03 on the EDI 850 contains data for CC or TP	
FOB05	335	Transportation Terms Description	M ID 3/3
		FOB = Free on board	

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Level: Detail
Usage: **Optional**
Purpose: To specify the carrier and sequence of routing and provide transit time information

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD502	66	Identification Code Qualifier	X ID 2/2
		Code designating the system/method of code structure used for Identification Code (67)	
		If TD5 02 Element is populated, then TD5 03 will be populated	
		ZZ Carrier code qualifier	
TD503	67	Grainger Carrier Codes	X AN 5/5
TD505	387	Grainger Carrier Code Descriptions	X AN 1/35

Segment: **TD4** Carrier Details (Special Handling)
Level: Detail
Usage: **Optional**
Purpose: To specify transportation special handling requirements

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
TD401	152	Special Handling Code	X ID 2/3
		ZZZ Mutually Defined	
T404	252	Description	X AN 1/80
		Delivery related specific instructions	

Segment: **ACK** Line Item Acknowledgment
Position: 270
Level: Detail
Usage: Mandatory
Purpose: To acknowledge the ordered quantities and specify the ready date for a specific line item

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	
ACK01	668 Line Item Status Code	M ID 2/2
	Code specifying the action taken by the seller on a line item requested by the buyer	
	IA Item Accepted AA Item Accepted - Order Forwarded to Alternate Supplier Location AR Item Accepted: Released for Shipment AC Item Accepted and Shipped DR Item Accepted - Date Rescheduled IE Item Accepted – Price Pending IF Item on Hold, Incomplete Description IP Item Accepted – Price Changed IQ Item Accepted – Quantity Changed SP Item Accepted - Schedule Date Pending BP Backordered: Partial Shipment, balance on backorder (ACK02 = Quantity Available) IB Item Backordered R1 Item Rejected: Not a Contract Item R2 Item Rejected: Invalid Item Product Number R3 Item Rejected: Invalid Unit of Issue R4 Item Rejected: Contract Item Not Available R7 Item Rejected: Reorder Item as a Drop Shipment	
ACK02	380 Quantity	M R 1/15
	Numeric value of quantity	
ACK03	355 Unit or Basis for Measurement Code	M ID 2/2
	Code specifying the units in which a value is being expressed, or manner in which a measurement	
	EA	Each

Segment: **SCH** Line Item Schedule
Level: Detail
Usage: **Mandatory – Note: There can be instances of multiple SCH segments**
Purpose: To specify the data for scheduling a specific line-item

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SCH01	380	Quantity Numeric value of quantity	M R 1/15
SCH02	355	Unit or Basis for Measurement Code	M ID 2/2
SCH05	374	Date/Time Qualifier 068 Current Schedule Ship	M ID 3/3
SCH06	373	Date Date expressed as CCYYMMDD	M DT 8/8

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 2/2
N903	369	Free-form Description Refer to MSG segment	M AN 1/20

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

Segment: **CTT** Transaction Totals
Level: Summary
Usage: Mandatory
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

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: **SE** Transaction Set Trailer
Level: Summary
Usage: **Mandatory**
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			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</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 855 Transaction:

ISA*00* *00* *01*9012345720000 *01*9088877320000 *040128*1105*U*00401*000000004*0*P*^~
GS*PR*901234572000*908887732000*20110725*1615*4*X*004010~
ST*855*0004~
BAK*00*AC*4610000000*20110725*****1134256352~
REF*IA*20001616~
REF*KD*20~
REF*IT*PO12345~
PER*BD*GRAINGER BUYER NAME*TE*847-566-7711*FX*847-566-5053*EM*GRAINGERBUYER@GRAINGER.COM~
PER*CN*GRAINGER CUSTOMER NAME*TE*CUSTOMER PHO*FX*CUSTOMER FAX
NUMBER*EM*GRAINGERCUSTOMER@CUSTOMER.COM~
PER*DI*GRAINGER DELIVERY*TE*CUST DELIVRY*FX*CUSTOMER DELIVERY FAX
NUMBER*EM*GRAINGERCUSTOMERDELIVERYCONTACT@CUSTOMER.COM~
N1*VN*W.W. GRAINGER~
N1*SF*SUPPLIER COMPANY~
N2*ATTN: DELIVERY~
N3*100 MAIN STREET~
N4*CHICAGO*IL*60601*US~
N1*ST*ABC COMPANY*92*TPSO~
N2*TOOL CRIB~
N3*157 WEST 57TH STREET~
N4*COLUMBUS*OH*43017*US~
PO1*1*1*EA*5.5**VP*GRAINGER PART NO*VN*SUPPLIER ITEM NO*CP*CUSTOMER MATERIAL NO*PL*GRAINGER
CUSTOMER LINE ITEM NO*MN*MFR MODEL NO*MG*NFR PART NO~
PID*F****FREEFORM DESCRIPTION1~
PID*F****FREEFORM DESCRIPTION2~
FOB*TP*DE*THIRD PARTY PAY ACCOUNT NUMBER**FOB~
TD5**ZZ*GRAINGER CARRIER CODE**CODE DESCRIPTION~
TD4*ZZZ***DELIVERY INSTRUCTIONS~
ACK*IP*1*EA~
SCH*1*EA***068*20110809~
N9*L1**REFER TO MSG SEGMENT~
MSG*INFORMATION AS TO WHY AN ITEM WAS CHANGED, MODIFIED, ETC. OTHER NOTES BY SUPPLIER~
MSG*THIS IS MESSAGE LINE NUMBER 2~
CTT*1~
SE*27*0004~
GE*1*4~
IEA*1*000000004~