



Message Implementation Guideline

STORE/DC 4010 850 EDI GUIDELINE

based on

850

Purchase Order

X12 004010

Version: 1.1
Variant: 1
Issue date: 10/25/2017
Author: TSC

1 Message Structure.....	3
3 Segments	4

TSC CONTACTS AND SUMMARY

Contact Information

TSC Store Support Center
5401 Virginia Way
Brentwood, TN 37027
USA

ISSUES / QUESTIONS	CONTACT	PURPOSE
EDI Team	edicoordinator@tractorsupply.com	EDI related Questions
DropShipMC	dropshipmc@tractorsupply.com	Packing Slip, Label or Order Issues
Accounts Payable	vpi@tractorsupply.com	Payment Status Assistance
Vendor Compliance	tsccompliance@tractorsupply.com	Compliance, Disputes, Chargebacks Etc
AP Portal	apex@ap.tractorsupply.com	Payment Status, Invoice Receipt (Only available after first invoice received)

EDI Information

Standard: ANSI X12

Version: 004010

Test EDI Qualifier: 08
Test EDI ID: 6120930015
ISA15: T

Production EDI Qualifier: 08
Production EDI ID: 6120930014
ISA15: P

VAN: Sterling

Terminator and Separators

Segment Terminator:	~ (tilde)
Element Separator:	* (asterisk)
Sub-Element Separator:	> (greater than sign)
Repeating element:	^ (carrot)

997 Acknowledgements

It is the Vendor's responsibility to check their 997 reports for failed documents periodically throughout the day.

Duplicate PO Check

It is the Vendor's responsibility to ensure that Duplicate PO check is turned on. TSC is not responsible for duplicate POs. **Do not ship Duplicate POs.**

EDI X12 Testing

It is the Vendor's responsibility to pre-test the mapping before testing with TSC. TSC expects the test data to comply with the TSC EDI X12 specification.

Structure / Table of Contents

Counter	No	Tag	St	MaxOcc	Level	Content
0000	1	ISA	M	1	0	Interchange Control Header
0000	2	GS	M	1	0	Functional Group Header
0010	3	ST	M	1	0	Transaction Set Header
0020	4	BEG	M	1	0	Beginning Segment for Purchase Order
0050	5	REF	M	>1	1	Reference Identification
0080	6	FOB	M	>1	1	F.O.B. Related Instructions
0110	7	CSH	M	5	1	Sales Requirements
0120		SAC	C	25	1	SAC
0120	8	SAC	M	1	1	Service, Promotion, Allowance, or Charge Information
0130	9	ITD	M	>1	1	Terms of Sale/Deferred Terms of Sale
0150	10	DTM	M	10	1	Date/Time Reference
0310		N1	M	200	1	N1-N3-N4
0310	11	N1	M	1	1	Name
0330	12	N3	C	2	2	Address Information
0340	13	N4	C	>1	2	Geographic Location
0010		PO1	M	100000	1	PO1
0010	14	PO1	M	1	1	Baseline Item Data
0010		CTT	M	1	1	CTT
0010	15	CTT	M	1	1	Transaction Totals
0030	16	SE	M	1	0	Transaction Set Trailer
0000	17	GE	M	1	0	Functional Group Trailer
0000	18	IEA	M	1	0	Interchange Control Trailer

Counter = Counter of segment/group within the standard
 No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
---------	----	-----	----	--------	-------	------

0000	1	ISA	M	1	0	Interchange Control Header
------	---	------------	---	---	---	----------------------------

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
ISA 01	I01	Authorization Information Qualifier	M ID 2/2	00 No Authorization Information Present (No Meaningful Information in I02)
ISA 02	I02	Authorization Information	M AN 10/10	Ten Blanks
ISA 03	I03	Security Information Qualifier	M ID 2/2	00 No Security Information Present (No Meaningful Information in I04)
ISA 04	I04	Security Information	M AN 10/10	Ten Blanks
ISA 05	I05	Interchange ID Qualifier	M ID 2/2	08 UCC EDI Communications ID (Comm ID)
ISA 06	I06	Interchange Sender ID	M AN 15/15	Production 6120930014 Test 6120930015
ISA 07	I05	Interchange ID Qualifier	M ID 2/2	
ISA 08	I07	Interchange Receiver ID	M AN 15/15	
ISA 09	I08	Interchange Date	M DT 6/6	YYMMDD
ISA 10	I09	Interchange Time	M TM 4/4	HHMM
ISA 11	I10	Interchange Control Standards Identifier	M ID 1/1	U U.S. EDI Community of ASC X12, TDCC, and UCS
ISA 12	I11	Interchange Control Version Number	M ID 5/5	00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997
ISA 13	I12	Interchange Control Number	M N0 9/9	The interchange control number will be incremented up by 1 for each sent transmission.
ISA 14	I13	Acknowledgment Requested	M ID 1/1	0 No Acknowledgment Requested
ISA 15	I14	Usage Indicator	M ID 1/1	P Production Data T Test Data
ISA 16	I15	Component Element Separator	M AN 1/1	HEX "6E" (>)

Remark:

Example:

```
ISA*00*          *00*          *08*6120930015    *08*XXXXXXXXXXXXXXXX*170404*0746*U*00401*999999999*0*
T*>
```

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
---------	----	-----	----	--------	-------	------

0000	2	GS	M	1	0	Functional Group Header
------	---	-----------	---	---	---	-------------------------

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
GS 01	479	Functional Identifier Code	M ID 2/2	PO Purchase Order (850)
GS 02	142	Application Sender's Code	M AN 10/10	Production 6120930014 Test 6120930015
GS 03	124	Application Receiver's Code	M AN 2/15	This value will be the same as the receiver ID in the ISA08. Any other value must be pre-approved by a TSC EDI analyst prior to usage.
GS 04	373	Date	M DT 8/8	CCYYMMDD
GS 05	337	Time	M TM 4/8	HHMMSSDD
GS 06	28	Group Control Number	M N0 1/9	The group control number will be incremented up by 1 for each sent transmission.
GS 07	455	Responsible Agency Code	M ID 1/1	X Accredited Standards Committee X12
GS 08	480	Version / Release / Industry Identifier Code	M AN 6/6	004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Remark:**Example:**

GS*PO*6120930015*XXXXXXXXXXXXXXXXXX*20170404*0746*1*X*004010~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0010	3	ST	M	1	0	Transaction Set Header

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
ST01	143	Transaction Set Identifier Code	M ID 3/3	850 Purchase Order
ST02	329	Transaction Set Control Number	M AN 4/9	

Remark:**Example:**

ST*850*XXXX~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0020	4	BEG	M	1	0	Beginning Segment for Purchase Order

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
BEG 01	353	Transaction Set Purpose Code	M ID 2/2	00 Original
BEG 02	92	Purchase Order Type Code	M ID 2/2	SA Stand-alone Order
BEG 03	324	Purchase Order Number	M AN 10/10	TSC PO number (10 digit numeric)
BEG 05	373	Date	M DT 8/8	CCYYMMDD - Date PO was issued

Remark:**Example:**

BEG*00*SA*1234567890**20170404~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0050	5	REF	M	>1	1	Reference Identification

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
REF 01	128	Reference Identification Qualifier	M ID 2/2	IA Internal Vendor Number PD Promotion/Deal Number
REF 02	127	Reference Identification	M AN 1/30	If REF01 = "IA", REF02 will contain the 6 digit TSC vendor number If REF01 = "PD", REF02 will contain the header tracking number

Remark:

The REF*IA segment will always be transmitted. An additional REF segment will be transmitted, when applicable, to designate a PO event code. This REF segment will reflect a "PD" qualifier

Example:

REF*IA*123456~

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0080	6	FOB	M	>1	1	F.O.B. Related Instructions

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
FOB 01	146	Shipment Method of Payment	M ID 2/2	CC Collect PP Prepaid (by Seller)

Remark:**Example:**

FOB*CC~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0110	7	CSH	M	5	1	Sales Requirements

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
CSH01	563	Sales Requirement Code	M ID 1/1	N No Back Order

Remark:

Example:

CSH*N~

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0120		SAC	C	25	1	SAC
0120	8	SAC	M	1	1	Service, Promotion, Allowance, or Charge Information

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
SAC 01	248	Allowance or Charge Indicator	M ID 1/1	N No Allowance or Charge
SAC 03	559	Agency Qualifier Code	M ID 2/2	VI Voluntary Inter-Industry Commerce Standard (VICS) EDI
SAC 04	1301	Agency Service, Promotion, Allowance, or Charge Code	M AN 4/4	OHNS = "Order Handling - New Store Order"

Remark:

This segment will only be sent on orders transmitted prior to the recipient store's opening date.

Example:

SAC*N**VI*OHNS~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0130	9	ITD	M	>1	1	Terms of Sale/Deferred Terms of Sale

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
ITD 01	336	Terms Type Code	M ID 2/2	05 Discount Not Applicable 08 Basic Discount Offered
ITD 03	338	Terms Discount Percent	C R 1/6	***Only use if TD101 value is 08*** Terms discount percentage, expressed as a percent that is available to TSC if paid on or before the Term's Discount Due Date
ITD 05	351	Terms Discount Days Due	C N0 1/3	***Only use if TD101 value is 08*** Number of days in the term's discount period during which payment is due
ITD 07	386	Terms Net Days	M N0 1/3	Number of days until invoice is due
ITD 12	352	Description	M AN 1/80	A free-form description to clarify the related data elements and their contents.

Remark:**Example:**

ITD*08**1.00**30**60*****NET 60~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0150	10	DTM	M	10	1	Date/Time Reference

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
DTM01	374	Date/Time Qualifier	M ID 3/3	037 Ship Not Before 038 Ship No Later 063 Do Not Deliver After 064 Do Not Deliver Before
DTM02	373	Date	M DT 8/8	CCYYMMDD

Remark:

If the FOB01 segment = "CC", the DTM01 data elements will be 037 & 038.

If the FOB01 segment = "PP", the DTM01 data elements will be 063 & 064.

Example:

DTM*037*20170404~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0310		N1	M	200	1	N1-N3-N4
0310	11	N1	M	1	1	Name

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
N1 01	98	Entity Identifier Code	M ID 2/2	ST Ship To Z7 Mark-for Party
N1 02	93	Name	M AN 3/3	TSC
N1 03	66	Identification Code Qualifier	M ID 2/2	92 Assigned by Buyer or Buyer's Agent
N1 04	67	Identification Code	M AN 4/4	4 digit TSC Store/DC code. If the Store/DC number number is 3 digits, a leading 0 should be used. Contact TSC inventory management if you need an updated store listing.

Remark:

An additional N1 segment will appear for Cross-Dock POs only. This N1 Segment will reflect a "Z7" qualifier. The store number transmitted in the N104 of this segment will be the final ship-to location.

Example:

N1*ST*TSC*92*0111~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0310		N1	M	200	1	N1-N3-N4
0330	12	N3	C	2	2	Address Information

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
N3 01	166	Address Information	M AN 1/55	
N3 02	166	Address Information	C AN 1/55	Used as needed

Remark:

This segment will only be sent on orders transmitted prior to the store opening date.

Example:

N3*123 MAINT ST*STE 101~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0310		N1	M	200	1	N1-N3-N4
0340	13	N4	C	>1	2	Geographic Location

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
N4 01	19	City Name	M AN 2/30	
N4 02	156	State or Province Code	M ID 2/2	
N4 03	116	Postal Code	M ID 5/15	

Remark:

This segment will only be sent on orders transmitted prior to the store opening date.

Example:

N4*NEW YORK*NY*12345~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0010		PO1	M	100000	1	PO1
0010	14	PO1	M	1	1	Baseline Item Data

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
PO1 01	350	Assigned Identification	O AN 1/20	
PO1 02	330	Quantity Ordered	M R 1/15	
PO1 03	355	Unit or Basis for Measurement Code	M ID 2/2	
PO1 04	212	Unit Price	M R 1/17	
PO1 06	235	Product/Service ID Qualifier	M ID 2/2	IN Buyer's Item Number
PO1 07	234	Product/Service ID	M AN 7/7	TSC 7 digit SKU
PO1 08	235	Product/Service ID Qualifier	M ID 2/2	VN Vendor's (Seller's) Item Number
PO1 09	234	Product/Service ID	M AN 1/48	Vendor Part Number
PO1 10	235	Product/Service ID Qualifier	M ID 2/2	EN European Article Number (EAN) (2-5-5-1) UP U.P.C. Consumer Package Code (1-5-5-1)
PO1 11	234	Product/Service ID	M AN 12/13	12 digit UPC or 13 digit EAN

Remark:**Example:**

PO1*10*9*EA*12.99**IN*1234567*VN*123-456*UP*123456789874~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0010		CTT	M	1	1	CTT
0010	15	CTT	M	1	1	Transaction Totals

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
CTT 01	354	Number of Line Items	M N0 1/6	Total number of PO1 segments

Remark:

Example:

CTT*1~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0030	16	SE	M	1	0	Transaction Set Trailer

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
SE 01	96	Number of Included Segments	M N0 1/10	
SE 02	329	Transaction Set Control Number	M AN 4/9	Must match ST02 value

Remark:**Example:**

SE*14*XXXX~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)



Counter	No	Tag	St	MaxOcc	Level	Name
0000	17	GE	M	1	0	Functional Group Trailer

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
GE 01	97	Number of Transaction Sets Included	M N0 1/6	Number of ST segments within GS Envelope
GE 02	28	Group Control Number	M N0 1/9	Must match GS06 value

Remark:**Example:**

GE*1*1~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

Counter	No	Tag	St	MaxOcc	Level	Name
0000	18	IEA	M	1	0	Interchange Control Trailer

Standard			Implementation	
Ref.	Tag	Name	St Format	Usage / Remark
IEA 01	I16	Number of Included Functional Groups	M N0 1/5	Number of GS Envelopes within ISA envelope
IEA 02	I12	Interchange Control Number	M N0 9/9	Must match ISA13 value

Remark:**Example:**

IEA*1*999999999~

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

TSC Store/DC Change Log – 850 Purchase Order

10/25/2017

- BEG03 changed to 10/10 format
- REF01 changed to 2/2 format
- REF02 changed to Mandatory
- CSH changed to Mandatory
- SAC03 and SAC04 changed to Mandatory
- ITD01 changed to Mandatory, ITD03 and ITD05 changed to Conditional, ITD07 and ITD12 changed to Mandatory
- DTM02 changed to Mandatory
- N102, N103 and N104 changed to Mandatory
- N101 changed to 2/2 format
- N102 changed to 3/3 format
- N103 changed to 2/2 format
- N104 changed to 4/4 format
- N302 changed to Conditional
- N401, N402 and N403 changed to Mandatory
- PO102, PO103, PO104, PO105, PO106, PO107, PO108, PO109, PO110 and PO111 changed to Mandatory
- PO107 changed to 7/7 format
- PO111 changed to 12/13 format

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

Example Data

ISA*00* *00* *08*6120930015 *12*8007490758
*170516*1300*U*00401*000000012*0*T*> ~
GS*PO*6120930015*8007490758*20170516*1300*12*X*004010~
ST*850*120001~
BEG*00*SA*1018864853**20170516~
REF*IA*500312~
FOB*PP~
CSH*N~
ITD*05*****30*****Net 30~
DTM*063*20170601~
DTM*064*20170526~
N1*ST*TSC*92*0399~
PO1*10*64*EA*30.75**IN*2101291*VN*PM80123*UP*4712765131234~
CTT*1~
SE*12*120001~
GE*1*12~
IEA*1*000000012~

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)