Oshkosh Corporation Electronic Commerce Implementation Guide (v4010)

Prepared for our Trading Partners
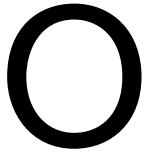*By the Information Systems Department*

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Note: The following information on Electronic Data Interchange, Electronic Commerce and E-Mail is distributed to and intended for the exclusive use of our existing customers and suppliers. Do not distribute this information to other persons or enterprises.

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Quick Reference/Information

This page, and the one following, summarize the information needed to configure our computer systems to communicate via Electronic Data Interchange.

Getting Started

Contact our Information Systems EDI coordinator. He/she can provide more information, answer questions and will work with your company through testing and activation. See the chapter titled "Setup and Testing" for more information on getting started.

Contact Information

Oshkosh Corporation
PO Box 2566
2307 Oregon Street
Oshkosh, WI 54901

EDI Contacts

Title	Name	Voice Telephone (920)-235-9151	Fax	E-Mail*
Getting Started?	Jeff Korotko	920-235-9151 ext. 25427	920-233-9350	jkorotko@defense.oshkoshcorp.com
EDI Coordinator	Jeff Korotko	920-235-9151 ext. 25427	920-233-9350	jkorotko@defense.oshkoshcorp.com
TPA – Legal	Lori Mackey	920-235-9151 ext. 2900	920-233-9321	lmackey@oshkoshcorp.com
Help Desk		920-235-9151 ext. 2349		

The E-Mail addresses contained in this Guide are intended only for the convenience of our EDI Trading Partners. Please do not disclose these addresses to others.

Technical Information

EDI Standard
ANSI ASC X12

Value Added Network
IBM Expedite/Direct (800) 588-5808 (Sales) or (877) 326-6426 (Technical Support)
Account ID/UserID (for all new trading partners)   OTRK/OTRKEC1
Account ID/UserID (phasing out this account   OSTK/OSTK003

Formatting Information
Interchange Header Segment	(ISA,ICS,BG)	ISA
ISA Version		00300
ISA11 Interchange Format	(X,U)	U
EDI Qualifier/ID for use in ISA segment		08 / 406070445
DUNS Number		006070445
GS07 Responsible Agency	(T,X)	X ANSI X12
Segment Terminator*		* Hex 15
Data Element Separator*		'*' Hex 5C
Sub-element Separator*		'>' Hex 6E

Functional Acknowledgment
Transaction-Level. Required for all transaction sets that we send. Unless specified otherwise, we send a functional acknowledgment for all received transaction sets.

Currently Supported Transaction Sets
810 – Invoice (Outbound)	Preferred Version: 004010
830 – Planning Schedule with Release Capability	Preferred Version: 004010
850 – Purchase Order (Outbound)	Preferred Version: 004010
856 – Advanced Shipment Notification	Preferred Version: 004010
997 – Functional Acknowledgment (Inbound & Outbound)	Preferred Version: 004010

These are preferred terminators and separators for all new trading partners. Certain of our long-time trading partners might use other values.

2Rev. 06/30/08   Oshkosh Corporation Electronic Commerce Implementation Guide

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EDI Partner Survey Form

In order for us to configure our systems please complete the form below and mail/FAX it to out Help!Desk. Preferred options are shown in italics. If you have a more complete EDI Guide then we would be happy to receive that document instead of this survey form. Thank you very much.

General Information

Company Name: _____

Mailing Address: _____

City, State, Zip: _____

EDI Contact Name: _____

EDI Contact Phone: _____

EDI Contact E-Mail: _____

EDI Standard
Circle one: *X=ANSI X.12*   *T=EDIA(TDCC)*   *U-UCS*   *V=VICS*   *A=AIAG*

Value Added Network
Value Added Network Company Name: _____
Account ID: _____   User ID: _____

Formatting Information
Interchange Header Segment	Circle one:	ISA ICS BG
ISA Version	Circle one:	0030 00200
ISA11 Interchange Change	Circle one:	U=US X=X.12

EDI Qualifier: _____   EDI ID: _____

DUNS Number: _____
GS07 Responsible Agency Code   Circle one: X=X.12
Segment Terminator: _____ or Hex: _____
Data Element Separator: _____ or Hex: _____
SubElement Separator: _____ or Hex: _____

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Functional Acknowledgement
	Circle One:

	Circle One:	
Interchange Level – Required? –	Yes	No
Group Level – Required? –	Yes	No
Transaction Level – Required? –	Yes	No

Transaction Sets
Circle One:

810 – Invoice – Able to Send?	Yes	No
Latest Supported Version: _____		
830 – Planning Schedule w/Rel. Cap. – Able to Receive?	Yes	No
Latest Supported Version: _____		
850 – Purchase Order – Able to Receive?	Yes	No
Latest Supported Version: _____		
855 – Purchase Order Acknowledgement – Able to Send?	Yes	No
Latest Supported Version: _____		
856 – Advance Shipment Notice – Able to Send?	Yes	No
Latest Supported Version: _____		
860 – PO Change Req. – Buyer Init. – Able to Receive:	Yes	No
Latest Supported Version: _____		
997 – Functional Acknowledgment – Able to Send?	Yes	No
Latest Support Version: _____		
997 – Functional Acknowledgment – Able to Receive?	Yes	No
Latest Support Version: _____		

Trading partner Agreement

Plan to use the **Oshkosh Corp** Trading Partner Agreement?   Yes   No

(*If using your own version of Trading Partner Agreement document must be approved by **Oshkosh Corp** Legal Department*)

Comments:

_____

_____

_____

_____

_____

For Oshkosh Corp Use Only:

Testing Contact Name: _____		Phone_____	
Assigned To:_____		Date: __/__/__	
Partner Info Screen: ☐	File Created: ☐	Have Impl Guide: ☐	TPR Received: ☐

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1

General Information

Thank you for your interest in our EDI/EC program! Our goal is to improve inter-enterprise communications and reduce costs... for both our organizations.

This manual is designed for customers and suppliers who are already familiar with Electronic Data Interchange. If you are not yet using EDI then still contact our staff to see if there are other time and cost saving methods we can use to conduct business transactions (Facsimile, etc.).

The tools and techniques for Electronic Data Interchange are rapidly changing. EDI is enlarging into several varied forms of paper-less transactions. Wide-spread acceptance of Internet is redefining the market's vision of Electronic Commerce. EDIFACT is being implemented on a global scale. **Oshkosh Corporation** is embracing these changes and will continue to expand its Electronic Commerce capabilities as the new systems prove their reliability and effectiveness.

This manual will be updated periodically to reflect our enhanced EDI/EC capabilities. Please feel free to request an updated copy of this document as needed from our EDI staff. The Change Log chapter lists the modifications made to this rather large document. This list can help you identify those portions that have changed and should be reviewed.

Guidelines

In order to participate in our EDI program we require our Trading Partners to follow some common guidelines:

1. All messages to or from **Oshkosh Corporation** must be through our VAN. Direct Communications will not be considered as an option.

2. The EDI ANSI ASC X12 standard, as implemented by the Automotive

Industry Action Group (AIAG) must be used.

3. To accommodate different upgrade schedules, **Oshkosh Corporation** will support up to a maximum of seven (7) versions/releases back from the currently published ASX X12 standard.

4. The timing of Pickup and Delivery of messages will be set to our most efficient schedule and applicable to all trading partners alike. We will not schedule EDI message Pickups or Deliveries to meet the needs of one particular partner. Our goal is to transmit/receive frequently enough to receive benefits from this fast communications path while controlling our processing costs. Our Pickup & Delivery schedule is included in this Guide but is subject to occasional change.

5. A properly executed Trading Partner Agreement (TPA) will be required with all Trading Partners prior to the production-mode use of EDI.

6. A transaction level Functional Acknowledgment (997) must be sent by the Trading Partner in the response to receipt of each **Oshkosh Corp** EDI transaction. If desired, we can disable transmission of Functional Acknowledgments in return for the transaction sets that you send to **Oshkosh Corp**. Otherwise, we will send you confirming Functional Acknowledgments after receiving your transactions.

Pickup & Delivery Schedule

Below is our current send/receive communications schedule. All transaction sets are received and delivered at the same time in the same communications session.

Day	Start Time of Day	End Time of Day	Frequency
Sunday	None	None	None
Monday	6:00 CST	22:00 CST	Executed on the hour
Tuesday	6:00 CST	15:00 CST	Executed on the hour
Wednesday	6:00 CST	15:00 CST	Executed on the hour
Thursday	6:00 CST	15:00 CST	Executed on the hour
Friday	6:00 CST	15:00 CST	Executed on the hour
Saturday	None	None	None

Please consider the time required for VAN's to edit and forward messages between trading partners. While this usually requires only a few seconds, it can take several hours. Regular E-Mail messages are received or sent many times throughout the workday, limited primarily by the speed of Internet.

Ship-to Numbers

Oshkosh Corp will send an internally used location code for each ship-to location, as these locations change or increase subsequent tables will be provided to EDI suppliers.

E-Mail

We do not support use of regular computer Electronic Mail for formal communications; EDI is the preferred method. However, E-Mail is time independent: both parties do not need to be available at the same time to converse. Also, it is better suited to conveying unstructured numerical or detailed information compared to Voice-Mail. Because of these unique advantages we welcome E-Mail for sending/receiving Requests for Quotations, informal progress reports, and other general information. **Oshkosh Corporation** does not plan on implementing the 864 – Text Transaction Set in the near future as regular E-Mail satisfies this need.

To send E-Mail to an Oshkosh Purchasing Employee reference the contact list on the Oshkosh Corp divisional page to address your mail.

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2

Trading Partner Agreement

Oshkosh Corporation, like most EDI participants, requires an executed legal agreement to define the unique terms and conditions of Electronic Commerce. To simplify the review by legal staff our agreement is fashioned after the ABA recommended agreement. This document should be familiar to your attorneys and/or legal department.

Please review the agreement. Sign two copies and send both to our Information Systems Help!Desk at the address below. **Oshkosh Corp** authorized representatives will execute both copies and return one to you.

> **Oshkosh Corporation**
> Attn. ISD Help!Desk
> P.O. Box 2566
> Oshkosh, WI 54903-2566

If you need to use your own version of the Trading Partner Agreement, instead of the one on the following pages, then please send a copy with an explanatory cover letter to the address below for review.

> **Oshkosh Corporation**
> Attn. Legal Department
> P.O. Box 2566
> Oshkosh, WI 54903-2566

TRADING PARTNER AGREEMENT

I.   Parties

1.1   **Oshkosh Corporation**, a Wisconsin corporation, with offices at 2307 Oregon Street, Oshkosh, Wisconsin 54903-2566 ("Oshkosh");

1.2   —————————————— , a——————————— corporation, with offices at ————————————————— ("Supplier").

II. Recitals

2.1   The Recitals are part of this Agreement.

2.2   Oshkosh and Supplier desire to facilitate purchase and sale transactions ("Transaction") by electronically transmitting and receiving data in agreed formats in substitution for conventional paper-based documents and to assure that such Transactions are not legally invalid or unenforceable as a result of the use of electronic technologies for the mutual benefit of the parties.

III.   Arrangements

3.1   <u>Documents and Standards</u>. Each party may electronically transmit to or receive from the other party any of the transaction sets listed in Appendix A, and transaction sets which the parties by written agreement add to Appendix A (collectively "Documents"). All Documents shall be transmitted in accordance with the standards and published industry guidelines set forth in Appendix A. Any transmission of data which is not a Document shall have no force or effect between the parties unless justifiably relied upon by the receiving party.

3.2   <u>Third Party Service providers</u>.

    3.2.1   Documents will be transmitted electronically to each party either, as specified in Appendix A of this agreement and the **Oshkosh Corporation** Electronic Commerce Implementation Guide, a copy of which has been provided to Supplier and of which Supplier acknowledges receipt, directly or through a third party service provider ("Provider") with which Supplier may contract. Supplier may modify its election to use, not use or change a Provider upon thirty (30) days prior written notice.

3.2.2. <u>System Operation</u>.   Each party, at its own expense, shall provide and maintain the equipment, software, communication services and testing necessary to effectively and reliably transmit and receive Documents.

3.2.3   Supplier shall be liable for the acts or omissions of its Provider while transmitting, receiving, storing or handling Documents, or performing related activities, for such party; provided, that if both parties use the same Provider to effect the transmission and receipt for a Document, the originating party shall be liable for the acts or omissions of such Provider as to such Document.

3.3   <u>Security Procedures</u>. Supplier shall properly use those security procedures, if any, which are reasonably sufficient to ensure that all transmissions of Documents are authorized and to protect its business records and data from improper access.

IV. Transmissions

4.1   <u>Proper Receipt</u>. Documents shall not be deemed to have been properly received, and no Document shall give rise to any obligation, until accessible to the receiving party at such parties receipt computer. In the case of transmissions to Oshkosh, Documents must be accessible at Oshkosh's computer at the Oshkosh computer at the Oshkosh, Wisconsin Headquarters.

4.2   <u>Verification</u>. Upon proper receipt of any Document, the receiving party may transmit a functional acknowledgment in return. A functional acknowledgment shall constitute conclusive evidence a Document has been properly received.

4.3   <u>Acceptance.</u> No Document shall give rise to any obligation on the part of either party unless and until the sending party has properly receive in return a functional acknowledgment, or the receiving party has commenced performance in accordance with the Document.

4.4   <u>Garbled Transmissions</u>. If any transmitted Document is received in an unintelligible or garbled form, the receiving party shall promptly notify the originating party (if identifiable from the received Document) in a reasonable manner. In the absence of such a notice, the originating party's records of the contents so such Document shall control.

V. Transaction Terms

5.1   <u>Terms and Conditions</u>. In the absence of any other written agreement made

expressly applicable to any Transaction made pursuant to this Agreement, any Transaction and any related communication shall be subject to specified sections of Oshkosh's Supplier Standards Guide, a complete copy of which has been sent to Supplier and of which Supplier hereby acknowledges receipt.

The terms of this Agreement shall prevail in the event of any conflict with any other terms and conditions applicable to any Transaction.

5.2 <u>Confidentiality</u>. No information contained in any Document or otherwise exchanged between the parties shall be considered confidential, except to the extent provided by a separate written agreement of the parties.

5.3 <u>Validly and Enforceablity</u>.

5.3.1   This Agreement has been executed by the parties to evidence their mutual intent to create binding purchase and sale obligations pursuant to the electronic transmission and receipt of Documents specifying certain of the applicable terms.

5.3.2 Any Document properly transmitted pursuant to this Agreement shall be considered, in connection with any Transaction, any other written agreement describes in Section 5.1, or this Agreement, to be a "writing" or "in writing;" and any such Document when containing, or to which there is affixed, and indicia indicating the originating party shall be deemed for all purposes (a) to have been "singed" and (b) to constitute an "original" when printed from electronic files or records established and maintained in the normal course of business.

5.3.3 The conduct of the parties pursuant to this Agreement, including the use of Documents properly transmitted pursuant to this Agreement, shall for all legal purposes, evidence a course of dealing and a course performance accepted by the parties in furtherance of this Agreement any Transaction and any other written agreement described in Section 5.1.

5.3.4 The parties agree not to contest the validity or enforceability of Documents under the provisions of nay applicable law relating to whether certain agreements are to be in writing or signed by the party to be bound thereby. Documents, if introduced as evidence on paper in any judicial, arbitration, mediation or administrative proceedings, will be admissible as between the parties to the same extent and under the same conditions as other business records originated and maintained in documentary form. Neither party shall context the admissibility of copies of Documents under either the business records exception to the hearsay rule or the best evidence rule on the basis

that the Documents were not originated or maintained in documentary form.

VI. Miscellaneous

6.1   Termination. This Agreement shall remain in effect until terminated by either party with not less than thirty (30) days prior written notice, which notice shall specify the effective date of termination; provided, however, that any termination shall not affect the respective obligations or rights of the parties arising under any Documents or otherwise under this Agreement prior to the effective date of termination.

6.2   Severability. Any provision of this Agreement which is determined to be invalid or unenforceable will be ineffective to the extent of such determination without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such remaining provisions.

6.3   Governing Law. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Wisconsin.

6.4   Limitation of Damages. Neither party shall be liable to the other for any special, incidental, exemplary or consequential damages arising from or as a result of any delay, omission or error in the electronic transmission or receipt of any Documents, or arising from goods, delivered pursuant to any Transaction or any defects therein, even if either party has been advised of the possibility of such damages.

6.5   Force Majeure. Neither party shall be liable for any failure to perform its obligations in connection with any Transaction or any Document, where such failure results from any act of God or other cause beyond such party's reasonable control (including, without limitation, any mechanical, electronic or communications failure) which prevents such party from transmitting or receiving an Documents.

6.6   Entire Agreement. This Agreement and Appendix A hereto, constitute the complete agreement of the parties relating to the matters specified in this Agreement and supersede all prior representations or agreements, whether oral or written, with respect to such matters. No oral modification or waiver of any of the provisions' of this Agreement shall be binding on either party. No obligation to enter into any Transaction is to be implied from the execution or delivery of this Agreement. This Agreement is for the benefit of, and shall be binding upon, the parties and their respective successors and assign.

Each party has cause this Agreement to be properly excluded by its duly authorized representative on the date first written above.

Oshkosh Corporation   Supplier

                                           _____

                                           Name
By _____   By _____
        (Authorized Signature)   (Authorized Signature)

_____   _____
Name and Title   Name and Title
(printed or typed)   (printed or typed)
_____   _____
Date   Date

Appendix A

Transaction Sets (Documents)

Finance
810 – Invoice
820 – Payment Order/Remittance Advice

Purchasing
832 – Price/Sales Catalog
840 – Request for Quotation
843 – Response to Request for Quotation
850 – Purchase Order
855 – Purchase Order Acknowledgment
860 – Purchase Order Change
865 – Purchase Order Change Acknowledgment

Materials Management
830 – Planning Schedule with Release Capability
846 – Inventory Inquiry/Advice
856 – Ship Notice/Manifest
861 – Receiving Advice
862 – Shipping Schedule
863 – Report of Test Results
866 – Production Sequence
870 – Order Status Report

Transportation
853 – Routing and Carrier Acknowledgment
858 – Shipping Information
859 – Freight Invoice

Warranty
140 – Product Registration
141 – Product Service Claim Response
142 – Product Service Claim
143 – Product Service notification

Multi-Functional
848 – Material Safety Data Sheet
864 – Text
997 – Functional Acknowledgment

Standards and Published Industry Guidelines

The EDI standard and convention to be used will be the Accredited Standards Committee X12 for Electronic Data Interchange (ASC X12) including all dictionaries, segment dictionaries, and transmission controls as implemented by the Automotive Industry Action Group (AIAG).

Third Party Service Providers (Provider)

The use of the Third party Service Provider will be required to implement EDI with **Oshkosh Corporation.** Direct communications will not be considered as an option. Trading partners will not be able to dial into the **Oshkosh Corporation** Computer.

Allocation of Provider Costs

Each party shall, at its sole cost and expense, arrange with a Third Party Service provider for a designated electronic Mailbox to which the other party can electronically transmit and deposit the above described Documents.

Oshkosh Corporation and Supplier shall each pay their respective cost of maintaining a mailbox with a Third Party Service Provider, including any minimum use charges. Each party shall be responsible for those cost associated with sending and receiving Documents to and from its own mailbox.

General

Resolution of differences in interpretation will result in the difference in interpretation of a code or data element being interpreted by the originator of the transaction.

Appendix A   shall be updated by letter of transmittal as changes occur.

3

Setup and Testing

Process Overview

What are the steps for establishing an Electronic Commerce link with **Oshkosh Corporation**? The steps are outlined below. Of course, this process may repeat as we agree to use more transaction sets in the future.

Who: Oshkosh Help!Desk

2
Exchange
Information

3
Exchange
Information

Who: Trading Partner Rep

Who: Oshkosh Legal Dept

4 Execute
Agreement,
Mail Copy to
Partner

5
Forward TPA to
Oshkosh Legal
Dept.

Who: Oshkosh Help!Desk

6
Handoff
Trading
Partner to
Oshkosh Tech

Who: Oshkosh Help!Desk

7
Setup & Test
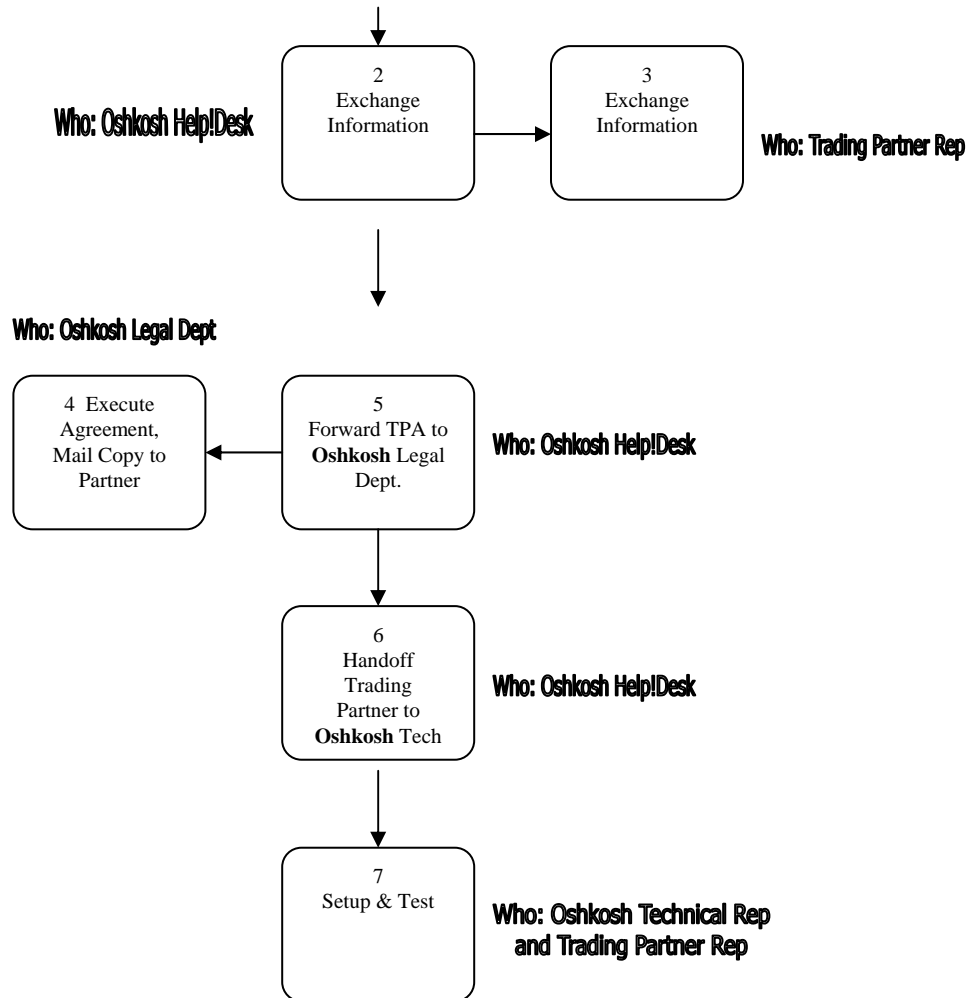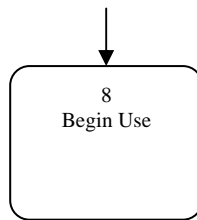
**Who: Oshkosh Technical Rep
and Trading Partner Rep**

```
                    │
                    ↓
          ┌──────────────────┐
          │        8         │   Who: Oshkosh Technical Rep
          │    Begin Use     │   and Trading Partner Rep
          │                  │
          └──────────────────┘
```

Step	Who	Responsibility
1	Trading Partner	Contact the Oshkosh Help!Desk
2	Oshkosh Help!Desk	Send most current Trading Partner Implementation Guide (this document)
3	Trading Partner	Send EDI information documents (IE: Implementation Guide) AND/OR FAX the completed EDI Partner Survey Form to the Oshkosh Help!Desk
4	Trading Partner	Execute the Trading Partner Agreement and mail to the **Oshkosh Corp** Help!Desk
5	Oshkosh Legal Department	Execute the Trading Partner Agreement. Mail one copy back to the Trading Partner.
6	Oshkosh Help!Desk	When required information and the Trading Partner Agreement are received, forward to a Technical Representative for setup, testing and implementation.
7	Trading Partner & **Oshkosh Corp** Technical Representation	Setup and Test
8	Trading Partner & **Oshkosh** Technical Representative	Implement, Begin Use

Steps 1 thru 3 – Exchange Information!
This Implementation Guide provides most information needed to configure and setup electronic communications with you, our trading partners. Contact our Help!Desk staff (telephone numbers are in the front chapter of this Guide) with questions and to have a Technical Representative assigned to your EDI project. If you have a similar document please send it to your **Oshkosh** Technical Representative, we need the same information about your EDI system.

Steps 4 thru 5 – Execute the Trading Partner Agreement
The legal agreement must be signed before we can begin using electronic commerce. See the Trading partner Agreement chapter.

Step 6 – Transfer to Technical Staff
Once we have exchanged the required technical information and the Trading Partner Agreement is signed our Help!Desk will refer you to a technical representative who will complete the ECI configuration. This technical person will be your contact from this point until three (3) weeks after the EDI transaction set is used in production. Note: After three (3) weeks please call the Help!Desk to report problems or to begin setup of another transaction set.

Step 7 – Setup & Test

This is the technical portion; the following chapters contain the details of what information we read or write in the various data segments. This information should be given to your technical staff for mapping. Our mailbox information should be entered into your trading partner master files.

Step 8 – Begin Use!

Once testing is completed and successful then we can agree on a date to cut-over to the EDI transactions. Call your assigned Technical Assistance representative at **Oshkosh** to notify them that you are ready for production. They will coordinate the switch to using the EDI transaction sets in Production Mode.

We use a "Cut over" method when activating EDI with our Trading Partners. On the agreed date all applicable messages will be sent or received via EDI instead of on paper. Our technical staff carefully review the first Production mode EDI transaction sets to insure their accuracy. During this second review these technicians may contact you to help confirm usability and accuracy of the transmissions.

ICS Interchange Control Structures

Segment: **ISA** **Interchange Control Header**

Level:	Not Applicable
Loop:	
Usage:	Mandatory, 1 per interchange
Max. Use:	1
Purpose:	To start and identify an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

Ref. Des.	Data Element	Name, Description, Oshkosh Conventions and Usage	Classification	Data Type	Length (min/max)
ISA01	I01	Authorization Information Qualifier *'0' is always sent by* **Oshkosh**	M	ID	2/2
ISA02	I02	Authorization Information *Ten spaces are always sent by* **Oshkosh**	M	AN	10/10
ISA03	I03	Security Information Qualifier *'00' is always sent by* **Oshkosh** *and indicates that no security information is present.*	M	ID	2/2
ISA04	I04	Mutually defined password *Ten spaces are always sent by* **Oshkosh**	M	AN	10/10
ISA05	I05	Interchange ID Qualifier Sender's interchange ID qualifier. *'08' is sent by* **Oshkosh** *our commercial trading partners and indicates our AIAG industry-specific number. 'ZZ' is sent to our US Government trading partners.*	M	ID	2/2

Ref. Des.	Date Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ISA06	I06	Interchange Sender ID AIAG assigned number if ISA05 equals '08'. Left justify, space fill. *'406070445' indicates **Oshkosh** AIAG number and is always sent to our commercial trading partners. 'OSTK' is a Identifying code sent to our USD Government trading partners.*	M	AN	15/15
ISA07	I05	Interchange ID Qualifier Receiver's interchange ID qualifier. *'01' indicates receiver's DUNS number. 'ZZ' indicates receiver's agreed-upon ID.*	M	ID	2/2
ISA08	I07	Interchange Receiver ID DUNS number. Left Justify, space fill. *Receiver's DUNS number or ID.*	M	ID	15/15
ISA09	I08	Interchange Date. Date (YYMMDD) *Indicates the date that the interchange was created on our computer and sent to the VAN.*	M	DT	6/6
ISA11	I10	Interchange Control Standards Identifier. Use 'U' for U.S. *'U' indicates Untied States X-12 standards and is always sent.*	M	ID	1/1
ISA12	I11	Interchange Control Version Number. Can be any standard version that is supported by **Oshkosh** *Currently, 00300 00301 00302 00303 00304 or 00305*	M	ID	5/5
SA13	I12	Interchange Control Number *A number that cannot be repeated within a 1 year period.*	M	N0	9/9

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and usage	Classification	Data Type	Length (min/max)
ISA14	I13	Acknowledgment Requested. Use 'O' for no acknowledgment requested and '1' for acknowledgment requested. *Zero is always sent, we do not wish to receive Interchange-level Functional Acknowledgments.*	M	ID	1/1
ISA15	I14	Test Indicator Use 'T' for test data and 'P' for production data.	M	Id	1/1
ISA16	I15	Sub-element separator.	M	AN	1/1

Segment: **GS** **Functional Group Header**

Level: Not Applicable
Loop: as required
Usage: Mandatory, 1 per functional group
Purpose: To indicate the beginning of a functional group and to provide control information.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
GS01	479	Functional identifier Code *'FA' indicates Functional Acknowledgment (997) 'IN' indicates Invoice (810) 'PO' indicates Purchase Order (850) 'RA' indicates Payment Order/Remittance Advice (820)*	M	ID	2/2
GS02	142	Application Sender's Code DUNS Number. *AIG#'406070445' indicates* **Oshkosh** *DUNS Number. 'OSTK' indicates* **Oshkosh** *Identifier for US Government trading partners.*	M	ID	2/12
GS03	124	Application Receiver's Code DUNS Number	M	ID	2/12

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
GS04	29	Date interchange Date. *Date (CCYYMMDD)* Date this functional group was created on the **Oshkosh** computer and transmitted to the VAN.	M	DT	8/8
GS05	30	Data Interchange Time *Time (HHMM).* Time of day (CST) this functional group was created on the **Oshkosh** computer and transmitted to the van.	M	TM	4/4
S06	28	Date Interchange Control Number. *Start with 1 and increment by 1 for each subsequent GS segment.*	M	NO	1/9
GS07	455	Responsible Agency Code *Enter 'X' for ASC X12 formats.* *'X' indicates X12 standards and is always sent by **Oshkosh***	M	ID	1/2
GS08	480	Version/Release/Industry ID Code *Field reflects version/release of standard used for transmittal.* *Varies by Transaction Set.*	M	ID	1/12

Segment:	**IEA** Interchange Control Trailer
Level:	Not Application
Loop:	
Usage:	Mandatory, 1 per interchange
Max. Use:	1
Purpose:	To define the end of an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
IEA01	I16	Number of included Functional Groups *Number of GS segments included between ISA and this IEA.*	M	NO	1/5
IEA02	I12	Interchange Control Number *Must match ISA13.*	M	NO	9/9

Segment:	**GE** **Functional Group Trailer**	
Level:	Not Applicable	
Loop:		
Usage:	Mandatory, 1 per functional Group	
Max. Use:	1	
Purpose:	To indicate the end of a functional group and to provide control information.	

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
GE01	97	Number of Transaction Sets Included *Total number of ST segments in a group.*	M	NO	1/6
GE02	28	Data interchange Control Number *Must be identical to the same data element in the associated group header (GS06).*	M	NO	1/9

Codes

The following chapters contain mapping information for each transaction set that **Oshkosh Corporation** is able to transmit or receive. When reviewing these chapters please remember that the tables use the same codes and abbreviations as the AX X12 standards. To insure clean interpretation, some of these codes are copied from the standards manuals and shown in the following tables.

Classification of Data Elements and Data Segments

Requirement Designator (Req.Des.)	Req. Des. Name	Application
M	Mandatory	Required Information
X	Conditional	The data element is required based on a defined condition stated in the standard. This designator does not apply to data segments.
O	Optional	Information is not required by the standard but may be used.
F	Floating	This designator is used for optional data segments that may appear anywhere in the transaction set after the beginning segment and before the transaction set trailer. This designator does not apply to data elements.

Data Element Data Types

Code	Explanation
Nn	numeric with n specified decimal places (implied decimal point)
R	Decimal (explicit decimal point)
AN	Alphanumeric
DT	Date (6 or 8, see Year 2000 paragraph below)
TM	Time (4 HHMM), 7 (HHMMSS), 8 (HHMMSSDD))
ID	Identification code

Numbers are assumed to be positive unless a leading minus sign indicating a negative value is transmitted. A plus sign is never transmitted. When transmitted, the minus sign (-) and decimal point (data type [R]), are not counted as part of the data element's length.

The decimal point for numeric (Nn) data types is implicitly located within the data element according to the specified data type, but is not transmitted with the data. For example, data type N3 implies three decimal places.

Example:

Value to be communicated:	-123.45
Data Element Type:	N3
Transmission content:	-123450 (computed length = 6)

The decimal point for decimal (R) data types is explicitly located within the data element. There is no limit on the number of fractional digits, as long as the total number of digits does not exceed the maximum length specified.

Example:

Value to be communicated:	-123.45
Data Element Type:	R
Transmission Content:	-123.45 (computed length = 5)

If a data element is not transmitted, its default value cannot be assumed (e.g. a numeric data element not transmitted cannot be assumed to have a value of zero {0}).

Numeric and decimal data should be transmitted with only significant zeroes. Alphanumeric data elements should be transmitted with no leading or trailing blanks, unless blanks are required to meet minimum length specifications.

Year 2000

ANSA X12 release 004010 is now available and has been installed at **Oshkosh.** *Release 004010 utilizes eight (8) digit dates (CCYYMMDD for all date fields (data type DT). We recommend that all our trading partners install release 04010. If you use a version prior to 004010 with the (YYMMDD) format,* **Oshkosh Corp** *uses the windowing technique and will assume dates are as follows:*

- *If year is less then "40" then we assume that the century is "20"*

- *If year is equal to or grater than "40" then we assume that the century is "19"*

4
810 – Invoice (Outgoing)

General Information

The **Oshkosh Corporation** 810 implementation varies slightly with our different customers. For US Government customers a few additional elements are sent. For commercial customers our 810 Invoice is fully compatible with the AIAG implementation of X.12 standards. Below are notes to help explain our use of this transaction set.

Transaction Set Notes
- We invoice each workday for items shipped that day. There is no reason to include the "Shipped Date" for each line item.

- For US Government customers, there are slight differences between the various units within the Department of Defense. The invoice is in the format of the unit requiring the most information. Therefore, some DoD customers may receive unneeded segments or elements. Simply ignore them if not needed.

- When needed, the Shipping Tracker or manifest number is placed in the REF segment.

Transaction Set Table

Header Area

ID	Description	AIAG Req. Des.	Max Use	Loop Report
ST	Transaction Set Header	M	1	
BIG	Beginning Segment for Invoice	M	1	
REF	Reference Numbers	O	12	
N1	Name	O	1	N1 200
ITD	Terms of Sale/Deferred Terms of Sale	O	5	
DTM	Date/Time Reference	O	10	

Detail Area

ID	Description	AIAG Req. Des.	Max Use	Loop Report
IT1	Baseline Item Data (Invoice)	O	1	IT1 200000
PID	Product/Item Description	O	1	IT1/PID 1000

Summary Area

ID	Description	AIAG Req. Des.	Max Use	Loop Report
TDS	Total Monetary Value Summary	M	1	
CAD	Carrier Details	O	1	
CTT	Transaction Totals	M	1	

Segment Usage

Segment: # ST **Transaction Set Header**

Level: *Header*
Loop:
Usage: *Mandatory*
Max. Use: *1*
Purpose: *To indicate the start of a transaction set and to assign a control number.*

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set Identifier Code *Code uniquely identifying a Transaction Set.* '810' indicates and Invoice and is always sent.	M	ID	3/3
ST02	329	Transaction Set Control Number *Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.*	M	AN	4/9

Segment: # BIG **Transaction Set Header**

Level: *Header*
Loop:
Usage: *Mandatory*
Max. Use: *1*
Purpose: *To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.*

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BIG01	245	Invoice Date *Invoice issue date.*	M	DT	6/6

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BIG02	76	Invoice Number *Identifying number assigned by issuer.*	M	AN	1/22
BIG03	323	Purchase Order Date *Date assigned by purchaser to Purchase Order.* *Not used by* **Oshkosh Corp.**	O	DT	6/6
BIG04	324	Purchase Order Number *Identifying number for Purchase Order number assigned by the orderer/purchaser.* *For US Government customers* **Oshkosh Corp** *will insert the contract number in this element. For commercial customers this element is not used.*	O	AN	1/22
BIG05	328	Release Number *Number identifying a release against a Purchase Order previously places by the parties involved in the transaction.* *For US Government customers* **Oshkosh Corp** *will insert the Contract Line Number (CLIN) in this element.* *For commercial customers this element is not used.*	O	AN	1/30
BIG06	327	Change Order Sequence Number *Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set.* Not used by **Oshkosh Corp**.	O	AN	1/8
BIG07	640	Transaction Type Code *Code specifying the type of transaction.* *'DI' indicates Debit Invoice and is always sent.*	O	ID	2/2
BIG08	353	Transaction Set Purpose Code *Code identifying purpose of transaction set.* *For US Government customers, '00' is always sent and indicates an Original Invoice.*	O	ID	2/2

Segment: # REF Reference Numbers

Level: *Header*
Loop:
Usage: *Optional*
Max. Use: *12*
Purpose: *To specify identifying numbers. For US Government customers this segment is normally sent twice as described below.*

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
REF01	128	Reference Number Qualifier Code qualifying the Reference Number *'SI' indicates Shippers' Identifying Number for the shipment; such as an UPS Tracker number*	M	ID	2/2
REF02	127	*Reference Number* *Reference number or identification number as defined for a particular transaction Set, or as specified by the Reference Number Qualifier.* *When REF01 is 'PQ' then this element contains the Payment System Code for the appropriate US Government entity.*	X	AN	1/30

Segment: # N1 Name

Level: *Header*
Loop: *N1 Repeat 200*
Usage: *Optional*
Max. Use: *1*
Purpose: *To identify a party by type of organization, name and code. For US Government customers this segment is normally sent four times as described below.*

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
N101	98	Entity identifier code Code identifying an organizational entity, a physical location, or an individual. 'PR' indicates Paying Office 'PE' indicates Payee. 'SE' indicates Selling Party. 'C4' indicates Contract Administration Office. 'ST' indicates Ship To. 'SV' indicates Service performance Site	M	ID	2/2
N102	93	Name Free-form name. *Not used for US Government Customers.*	X	AN	1/35
N103	66	Identification Code Qualifier *Code designating the system/method of code structure used for identification code element 67.* *'33' indicates* **Oshkosh** *CAGE code and is always sent when N101 equals 'SE'.* *'10' indicates DoDAAC Code and is always sent when N101 equals 'PR','ST','SV' or 'C4'.*	X	ID	1/2
N104	67	Identification Code *Code identifying a party or other code.* *When N101 equals 'SE' this element contains* **Oshkosh** *CAGE code; 45152.* *When N103 equals '10' this element contains the US Government DoDAAC for the appropriate Payment Office.*	X	AN	2/17

Segment: # PER **Administration Communications**

Contact

Level: Header
Loop:
Usage: Mandatory
Max. Use: 3
Purpose: To identify a person or office to whom administrative

communications should be directed.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PER01	366	Contact Function Code *Code identifying the major duty or responsibility of the person or group named.* 'IC' indicates Information Contract and is always sent.	M	ID	2/2
PER02	93	Name *Free-form Name.* *The name of the person who may be contact with questions regarding this invoice*	O	AN	1/35
PER03	365	*Communication Number Qualifier* *Code identifying the type of communication number.* *'TE' indicates Telephone number and is always used.*	X	ID	2/2
PER04	364	Communication Number Complete Communication number including country or area code when applicable. Hyphens are removed from telephone numbers.	X	AN	1/80

Segment: **ITD** **Terms of Sale/Deferred Terms of Sale**

Level: Header
Loop:
Usage: Optional
Max. Use: 5
Purpose: To specify terms of sale

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ITD01	336	Terms Type Code Code identifying type of payment terms. '16' indicates prompt payment Act and is always sent to our US Government customers.	O	ID	2/2
ITD02	386	Terms Net Days Number of days until total invoice amount is	O	NO	1/3

		due.			

Segment: DTM Date/Time Reference

Level:	Header
Loop:	
Usage:	Optional
Max. Use:	10
Purpose:	To specify pertinent dates and times.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
DTM01	374	*Date/Time Qualifier* *Code identifying type of date or time, or both date and time.* *'011' indicates Shipped Date for the items and is always sent.*	M	ID	3/3
DTM02	373	*Date* *Date (CCYYMMDD).*	X	DT	8/8

Segment: IT1 Baseline Item Data (Invoice)

Level:	Detail
Loop:	IT1 Repeat 200,000
Usage:	Optional
Max. Use:	10
Purpose:	To specify the basic and most frequently used line item data for the invoice and related transactions.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Convention and Usage	Classification	Data Type	Length (min/max)
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. In format 'xxxx00' so Invoice line item number 1 is sent as '000100'.	O	AN	1/11
IT102	358	Quantity Invoiced Number of units invoiced.	M	R	1/10
IT103	355	Unit or Bases for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. 'EA' indicates Each and is normally sent.	M	ID	2/2
IT104	212	Unit Price Price per unit of product, service, commodity, etc.	M	R	1/14
IT105	639	Basis of Unit Price Code Code identifying the type of unit price for an item. Not used.	O	ID	2/2
IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in product/service ID. 'MG' indicates Manufacturer's Part Number and is used for US Government customers to indicate the **Oshkosh** Part Number. 'FS' indicates National Stock Number and is used with US Government customers to identify a customer assigned part number. 'VP' indicates Vendor's Part Number and is used to identify the **Oshkosh** Part Number for commercial customers. 'BP' indicates Buyer's Part Number and is used to identify the customer's part number for commercial customers.	O	ID	2/2
IT107	234	Product/Service ID Identifying number for a product or service.	X	AN	1/30

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (Min/max)
IT108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in product/service ID. 'MG' indicates Manufacturer's Part Number and is used for S Government customers to indicate the **Oshkosh** Part Number. 'FS' indicates National Stock Number and is used with US Government customers to identify a customer assigned part number. 'VP' indicates Vendor's Part Number and is used to identify the **Oshkosh** part Number for commercial customers. 'BP' indicates Buyer's Part Number and is used to identify the customer's part number for commercial customers.	O	ID	2/2
IT109	234	Product/Service ID Identifying number for a product or service.	X	AN	1/30

Segment: **PID** Product/Item Description

Level: Header
Loop: IT1/PID
Usage: Optional
Max. Use: 1
Purpose: To describe a product or process in coded or free-form format. This segment is always sent to US Government customers but never sent to commercial customers.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PID01	349	Item Description Type Code indicating the format of a description.	M	ID	1/1

		'F' indicates Free-Form and is always used.			

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PID02	750	Product/Process Characteristic Code Code identifying the general class of a product or process characteristic. Not Used.	O	ID	2/3
PID03	559	Agency Qualifier Code Code identifying the agency assigning the values. Not Used.	X	ID	2/2
PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic. Not Used.	X	AN	1/12
PID05	352	Description A free-form description to clarify the related data elements and their content. Contains the part number description.	X	AN	1/80

Segment: **TDS** Total Monetary Value Summary

Level: Summary
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To specify the total invoice discounts and amounts.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min.max)
TDS01	361	Total Invoice Amount Amount of invoice (including charges, less allowances) before terms discount (if applicable). For US Government SAMMS customers this value excludes transportation	M	ID	1/1

		charges.			

Segment: # CAD **Carrier Detail**

Level: Summary
Loop:
Usage: Optional
Max. Use: 1
Purpose: To specify transportation details for the transaction.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
CAD01	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment.	O	ID	1/2
CAD02	206	Equipment Initial Prefix of alphabetic part of equipment unit's identifying number Not Used	O	AN	1/4
CAD03	207	Equipment Number Sequencing of serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred). Not Used.	O	AN	1/10
CAD04	140	Standard Carrier Alpha Code Standard Alpha Carrier Code. Not Used	X	ID	2/4
CAD05	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identify. 'I' is always sent.	X	AN	1/35

Segment: # CTT **Transaction Totals**

Level: Summary
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.

Date Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and usage	Classification	DataType	Length (min/max)
CTT01	354	Number of Line Items Total number of line items in the transaction set.	M	NO	1/6

Segment: **SE** **Transaction Set Trailer**

Level: Summary
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the end of the transaction set and provide the counts of the transmitted segments (including the beginning ST and ending SE segments).

Data Element Summary

Ref. Des.	Data Element	Name Description,	Classification	Data Type	Length (min/max)
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Always sent by **Oshkosh Corp**. This value equals that in the Transaction Set Header (ST02 for the same transaction set.	M	AN	4/9

5

830 – Planning Schedule (Outgoing)

General Information

This transaction set is formally know as the Planning Schedule with Release Capability but is often called the Vendor Release Schedule or Material Release Schedule.

We offer this transaction set in two formats. We can send the 830 in Automotive Industry Action Group format, which we prefer, or with another map that includes more information. For Trading partners who load the EDI transactions right into their computer they would benefit from using the AIAG format. For suppliers who print the documents, and then follow-up with human intervention, should request the expanded format, format, since it has added human readable information. In the Transaction Set Table documentation below we indicate which map/format the segment is used in.

These specifications were developed in accordance with an AIAG publication called the Supply Chain – Recommended Business Practices for EDI Implementation. This is AIAG document number AIAG M-3, copyright 1997.

Transaction Set Notes
- We always send a replacement schedule. The contents of these schedules will replace all previous 830 transmissions for the same Blanket-PO/Item/Ship-To-location.

- An 830 sent with only one FST segment and a required quantity of zero indicates that all orders for this part number/ShipTo Location are canceled.

- We consolidate all schedules for a given part for a given Ship-To location and blanket PO into one transaction set. This also means that if we have outstanding orders for the same part for more than one of our manufacturing facilities then you will receive more than one 830 transaction set; one for each plant.

- The part revision level, also known as Engineering Change level is sent in the LIN segment. If the Engineering change level changes then either:

- Delivery notes are included in the MSG segment of the document header section. The notes will be place in the MSG01 "Free Form Text" elements. Examples of such notes could be "ATTN: Jane Doe" or "Delivery to South Dock".

- Most line items will have a note that refers to our Supplier Standard Guide for additional text. These external references considered part of the Purchase Order document. Such references are included in the MSG segment with the legal notes placed in the MSG01 Free Form Text element.

- Date/Time Reference Segment – We often send two date references for each purchase order. Because of pre-exiting vendor agreements related to on-time performance, there are times when parts are required less than agreed upon lead-times. For this reason, we send one date with a "106' qualifier (Required By) as the actual need date and a '410' qualifier (Date of Firm Commitment) as the date the supplier is committed to based on previous agreements. **When the required date can not be met please contact the buyer immediately.**

- An internal number will be used to identify the ship-to location in the N1 segment. The number references a specific receiving dock the shipment is to be delivered. Reference to Chapter 1 for ship-to locations.

- The blanket PO number is always sent in the BFR11 element.

- Past due orders are shown due immediately, on the date the 830 was created.

Transaction Set Table

Header Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat	In AIAG Format?	In Expanded Format?
ST	Transaction Set Header	M	1		Yes	Yes
BFR	Beginning Segment for Planning Schedule	M	1		Yes	Yes
CTP	Pricing Information	O	>1		No	Yes
N1	Name(Material Release issuer)	O	1		Yes	Yes
N1	Name (Supplier)	O	1		Yes	Yes
N1	Name (Ship To)	O	1		No	Yes

Detail Area

ID	Description	AIAG Req. Des.	Max. Use	Loop Repeat	In AIAG format?	In expanded Format?
LIN	Item Identification	M	1	LIN	Yes	Yes
UIT	Item Unit Data	O	1	LIN	Yes	Yes
FST	Forecast Schedule	O	1	LIN/SDP	Yes	Yes
SHP	Shipped/Received Information	O	1	LIN/SHP	Yes	Yes

Summary Area

ID	Description	AIAG Req. Des.	Max. Use	Loop Repeat	In AIAG format?	In expanded Format?
CTT	Transaction Totals	O	1		Yes	Yes
SE	Transaction Set Trailer	M	1		Yes	Yes

Sample Data

GS*PS*406070445*005382346*20010314*1335*6*X*004010μ
ST*830*000000007μ
BFR*05*507037**DL*A*20010311*20020109*20010311***507037μ
N1*SU**1*005382346μ
N1*MI**1*006070445μ
N1*ST**92*611331μ
LIN**BP*3022672***VP*341022-S60μ
UIT*PCμ
FST*44*D*D*20010516μ
FST*60*D*D*20010530μ
FST*32*D*D*20010620μ
FST*40*D*D*20010711μ
FST*44*D*D*20010725μ
FST*32*D*D*20010905μ
FST*20*D*D*20010919μ
FST*8*D*D*20011017μ
FST*28*D*D*20011107μ
FST*28*D*D*20011114μ
FST*32*D*D*20011212μ
FST*32*D*D*20020109μ
SHP*01*64*050*20010208μ
SHP*02*837*050*19990509μ
CTT*1*400μ
SE*23*000000007μ
GE*1*6μ

Segment Usage

Segment: # ST **Transaction Set Header**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set identifier Code Code Uniquely identifying a transaction set '830' is always used.	M	ID	3/3
ST02	329	Transaction Set Control Number Identifying control number, unique within the transaction set functional group Sequential Number, in format 999999999	M	AN	4/9

Segment: # BFR **Beginning Segment for Planning Schedule**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the beginning of a planning schedule transaction set: whether a ship or delivery based forecast; and related forecast envelope dates.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BFR01	353	Transaction Set Purpose Code Code Uniquely identifying a transaction set *'05' is always used and indicates a complete schedule replacement for this item.*	M	ID	2/2
BFR02	127	Reference Identification Reference information as defined for a particular transaction set or as specified by the reference identification qualifier. *Purchase Order number is included in this element. See also BFR11.*	X	AN	1/30
BFR03	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. *Not used by* **Oshkosh**	X	AN	1/30
BFR04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast. *'DL' is always sent and indicates that we wish delivery on our docks/receiving location on the specified date.*	M	ID	2/2
BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast. *'A' is always sent and indicates Actual Discrete Quantities.*	M	ID	1/1
BFR06	373	Date Date (CCYYMMDD) *Current date is always sent and indicates that the planning horizon for this schedule starts immediately; effective on the date the Transaction Set is created.*	M	DT	8/8
BFR07	373	Date Date (CCYYMMDD) *This is the end date of the planning schedule horizon. The date of the last FST segment is placed in this field.....*	M	DT	8/8
BFR08	373	Date Date (CCYYMMDD) *Contains the date that this schedule was created on the* **Oshkosh** *computer system.*	M	DT	8/8

Ref. Des.	Date Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BFR09	373	Date Date (CCYYMMDD) *Not used by **Oshkosh***	O	DT	8/8
BFR10	367	Contract Number Contract Number *Not used by **Oshkosh***	O	AN	1/30
BFR11	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchase. *The PO number in the field applies to all schedule lines in the transaction set.* *Always used by **Oshkosh***	O	AN	1/22

Segment: # N1 **Name**

Level:	Header
Loop:	
Usage:	Optional
Max. Use:	3
Purpose:	To identify a party by type of organization, name and code. This segment is sent three times. The first one identifies the sender/Material Release Issuer as **Oshkosh Corp**. The second N1 segment indicates who we are sending this schedule to; you, our supplier. The third segment identifies the Ship To location for the goods.

Date Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual. 'M1' indicates the schedule sender, **Oshkosh Corp**. 'SU' indicates the supplier. 'ST' indicates the Ship To location	M	ID	2/2
N102	93	Name *Free-form name.* *If you are receiving the AIAG format then this element is blank. Otherwise, when N101 is 'MI' then this element always contains our name:* **Oshkosh Corporation**. *When N101 contains "SU' then this element contains the supplier's name. When N101 contains 'ST' then this element contains the plant Name of our Ship To dock location.*	X	AN	1/35
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for identification code (67). *This element contains a '92' which indicates the address number used in our internal information system.*	X	ID	1/2
N104	67	Identification Code Code identifying a party or other code. This element contains either an internal number or text names depending on which format you	X	AN	2/20

		are receiving. Our internal number is used when N101 is 'MI' or 'ST'.			

<p align="center">Segment: **LIN** **Item Identification**</p>

Level: Detail
Loop: LIN Repeat [1
Usage: Mandatory
Max. Use: 1
Purpose: To specify basic item identification data.

Ref. Des	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set Not used by **Oshkosh Corp.**	O	AN	1/20
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product.Service ID (234) 'BP' indicates Buyers Part Number, the **Oshkosh Corp** part number, and is always used.	M	ID	2/2
LIN03	234	Product/Service ID Identifying number for a product or service. The **Oshkosh Corp** part number is placed in this element.	M	AN	1/40
LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product.Service ID (234) 'EC' indicates Engineering Change Level and is always sent.	X	ID	2/2
LIN05	234	Product/Service ID Identifying number for a product or service. The Engineering Change Level code is sent in this element.	X	AN	1/40
LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) 'VP' indicates Vendor/Supplier's Part Number and is always sent.	X	ID	2/2
LIN07	234	Product/Service ID Identifying number for a product or service. The Vendor's part number is sent in this element.	X	AN	1/40

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Segment: # UIT **Unit Detail**

Level: Detail
Loop: LIN
Usage: Optional
Max. Use: 1
Purpose: To specify item unit data.

Date Element Summary

Ref. Des	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
UIT01	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a value is being expressed, or manner in which a measurement has been taken. Unit of Measure code. 'PC' indicates pieces and is used instead of the more common 'EA' code. AIAG specifies the use of 'PC'.	M	ID	2/2

Segment: # FST **Forecast Schedule**

Level: Detail
Loop: LIN/FST Repeat [1
Usage: Optional
Max. Use: 1
Purpose: To specify the forecasted dates and quantities.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
FST01	380	Quantity Numeric value of quantity.	M	R	1/15
FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a	M	ID	1/1

Ref. Des.	Data Element	Name, Description				
		forecast. 'C' indicates Firm 'D' indicates Planning. All requirements within our 'firm window' will have a qualifier of 'C', all other requirements will have a qualifier of 'D'.				
FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast. 'D' indicates discrete and is always used by **Oshkosh Corp.**	M	ID	1/1
FST04	373	Date Date (CCYYMMDD) Date the goods are required on our docks.	M	DT	8/8

Segment: # SHP   **Shipped/Received Information**

Level: Detail
Loop: LIN/SHP Repeat 25
Usage: Optional
Max. Use: 2
Purpose: To specify shipment and/or receipt information.
Oshkosh Corp uses this segment to convey the most recent receipt of this item. It is often sent twice, first with most recent shipment and then with cumulative shipment information.

Ref. Des.	Data Element	Name, Description **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
SHP01	673	Quantity Qualifier Code specifying the type of quantity 'O1' indicates discrete quantity. '02' indicates cumulative quantity.	O	ID	2/2
SHP02	380	Quantity In numeric value of quantity	X	R	1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. '050' indicates date that goods were received and is always used.	X	ID	3/3
SHP04	373	Date Date (CCYYMMDD) If SHP01 is "I" then this element contains the Date of the last receipt.	X	DT	8/8

		If SHP01 is '2' then this element contains the start date of the accumulated quantity.			

Segment: # CTT **Transaction Totals**

Level: Summary
Loop:
Usage: Optional
Max. Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.

Data Element Summary

Ref. Des.	Data Element	Name, Description **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
CTT01	354	Number of Line Items Total number of line items in the transaction set Total number of LIN segments	M	NO	1/6
CTT02	347	Hast Total Sum of values of the specified element. Hast total of quantities release (FST01)	O	R	1/10

Segment: # SE **Transaction Set Trailer**

Level: Summary
Loop:
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

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
SE01	96	Number of included segments Total number of segments included in a transaction	M	NO	1/10

		set including ST and SE segments.			

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Always sent by **Oshkosh Corp**. This value equals that in the Transaction Set Header (ST02) for the same transaction set.	M	AN	4/9

6

850 – Purchase Order (Outgoing)

General Information

*The **Oshkosh Corporation** 850 implementation is an AIAG implementation of X12 standards. Below are notes to help explain our use of the 850 and the map details.*

Transaction Set Notes

- Delivery notes are included in the MSG segment of the document header section. The notes will be place in the MSG01 "Free Form Text" elements. Examples of such notes could be "ATTN: Jane Doe" or "Delivery to South Dock".

- Most line items will have a note that refers to our Supplier Standard Guide for additional text. These external references are considered part of the Purchase Order document. Such references are included in the MSG segment with the legal notes placed in the MSG01 Free Form Text element.

- Unit or Basis for Measurement codes **– Oshkosh Corp** uses the standard Data Element 355 Code List, as published in various standards documents. However, AIAG recommends use of "PC" (piece) instead of "EA" (each). Our experience shows that most automotive industry suppliers continue to use "Each." We use the "EA" unit of measure code. In the future we may switch to "PC" if needed.

- Date/Time Reference Segment – We often send two date references for each purchase order. Because of pre-existing vendor agreements related to on-time performance, there are times when parts are required less than agreed upon lead-times. For this reason, we send one date with a '106' qualifier (Required By) as the actual need date and a '410' qualifier (Date of Firm Commitment) as the date the supplier is committed to based on previous agreements. **When the required date can't be met please contact the buyer immediately.**

- An internal number will be used to identify the ship-to location in the N1 segment. The number references a specific receiving dock the shipment is to be delivered. Reference to Chapter 1 for ship-to locations.

Transaction Set Table

Header Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
ST	Transaction Set Header	M	1	
BEG	Beginning Segment	M	1	
MSG	Message Text	O	60	
PER	Administrative Communications Contact	O	3	
DTM	Date/Time Reference	O	10	
N1	Name (Supplier/Manufacturer)	O	1	
N1	Name (Purchaser)	O	1	
N1	Name (Ship To)	O	1	
N3	Address Information	O	1	
N4	Geographic location	O	1	

Detail Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
PO1	Baseline Item	M	1	PO1
PID	Product/Item Description	O	1	PO1/PID
DTM	Date/Time Reference	O	10	PO1
MSG	Message Text			

Summary Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

Sample Data

GS*PO*000000001*062039151*20010312*1003*1944*X*004010µ
ST*850*000002269µ
BEG*00*NE*1713418**20010312µ
PER*BD*JOHN DOE BUYER*TE*920-235-9150µ
DTM*007*20010312µ
N1*BY***OSHKOSH CORPORATION***µ
N1*SU*THE SUPPLIER COMPANY INCµ
N1*ST***OSHKOSH CORPORATION*** WEST PLANT*92*600001µ
N3*500 WEST WAUKAU GATE 12µ
N4*OSHKOSH*WI*54902*USµ
PO1*1000*2*EA*00.00*CT*BP*999999*VP*999999µ
PID*F****AIR REGULATING VALVEµ
DTM*106*20010326µ
DTM*410*20010326µ
MSG*Commercial PO, **Oshkosh Corp** Supplier Standards Guide PO NOTES 09/15/0µ
MSG*Note 0, Incorporated By Referenceµ
MSG***OSHKOSH*** SUPPLIER STANDARDS GUIDE ARE HEREBY INCORPORATED BYµ
MSG*THIS REFERENCE TO THIS PURCHASE ORDER. THESE STANDARDSµ
MSG*INCLUDE AND IMPOSE ON THIS ORDER **OSHKOSH** STANDARD ORDERµ
MSG*WARRANTIES UNLESS WRITTEN OBJECTION IS RECEIVED AND AGREEDµ
MSG*TO IN WRITING **BY OSHKOSH**.µ
PO1*2000*12*EA*0.01*CT*BP*777777*VP*777777µ
PID*F****PAINT WHITE 16OZ SPRAY CAN N0.16µ
DTM*106*20010326µ
DTM*410*20010326µ
MSG*Commercial PO, **Oshkosh** Supplier Standards Guide PO NOTES 09/15/0
MSG*Note 0, Incorporated By Referenceµ
MSG***OSHKOSH*** SUPPLIER STANDARDS GUIDE ARE HEREBY INCORPORATED BYµ
MSG*THIS REFERENCE TO THIS PURCHASE ORDER. THESE STANDARDSµ
MSG*INCLUDE AND IMPOSE ON THIS ORDER **OSHKOSH** STANDARD ORDERµ
MSG*WARRANTIES UNLESS WRITTEN OBJECTION IS RECEIVED AND AGREEDµ
MSG*TO IN WRITING BY **OSHKOSH**.µ
PO1*3000*64*EA*0.01*CT*BP*888888*VP*88888888µ
PID*F****STEEL WOOL - SUPREME GRADE 000X FINE 16/PKGµ
DTM*106*20010326µ
DTM*410*20010326µ
MSG*Commercial PO, **Oshkosh** Supplier Standards Guide PO NOTES 09/15/0µ
MSG*Note 0, Incorporated By Referenceµ
MSG***OSHKOSH*** SUPPLIER STANDARDS GUIDE ARE HEREBY INCORPORATED BYµ
MSG*THIS REFERENCE TO THIS PURCHASE ORDER. THESE STANDARDSµ
MSG*INCLUDE AND IMPOSE ON THIS ORDER **OSHKOSH** STANDARD ORDERµ
MSG*WARRANTIES UNLESS WRITTEN OBJECTION IS RECEIVED AND AGREEDµ
MSG*TO IN WRITING BY **OSHKOSH**.µ
CTT*3*78µ
SE*44*000002269µ

Segment Usage

Segment: # ST **Transaction Set Header**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set Identifier Code Code Uniquely identifying a transaction set *'850' is always used.*	M	ID	3/3
ST02	329	Transaction Set Control Number Identifying control number, unique within the transaction set functional group. Sequential Number, in format 999999999	M	AN	4/9

Segment: # BEG Beginning Segment for Purchase Order

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the beginning of the purchase order transaction set and transmit identifying numbers and dates.

Data Element Summary

Ref Des	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set '00' indicates Original order '01' indicates Cancellation '05' indicates Replacement	M	ID	2/2
BEG02	92	*Purchase Order Type Code* Code specifying the type of Purchase Order 'NE' indicates new Order (most often used) 'BK' indicates Blanket Order	M	ID	2/2
BEG03	324	*Purchase Order Number* Identifying number for Purchase Order as assigned by the **Oshkosh Corp.** *Spot Buy Number or Blanket Order Contract Number.*	M	AN	1/22
BEG04	328	Release Number Number identifying a release against a Purchase Order previously placed by **Oshkosh.** Always used if BEG02 equals 'RL'.	O	AN	1/30
BEG05	323	Purchase Order Date (CCYYMMDD) Date assigned by the Purchaser to Purchase Order Indicates date the PO was created.	M	DT	8/8

Segment: **PER** **Administrative Communications**

Level: Header
Loop:
Usage: Optional
Max. Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed.

Data Element Summary

Ref Des	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. 'BD' is always used and indicates buyer name.	M	ID	2/2

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PER02	93	Name Free-Form Name Buyer name, First name followed by last name.	M	AN	1/35
PER03	365	Communication Number Qualifier Code identifying the type of communications number. 'TE' indicates telephone number 'EX' indicates telephone extension number 'FX' indicates Facsimile	X	ID	2/2
PER04	364	Communications Number Complete communications number including country or area code when applicable North American telephone numbers are sent in format XXX-XXX-XXXX	X	AN	1/80

Segment: # MSG **Message Text**

Level: Header
Loop:
Usage: Optional
Max. Use: 1000
Purpose: To provide a free-form format that allows the transmission of text information

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
MSG01	933	Free-Form Message Text	M	AN	1/264

Segment: # DTM **Date/Time Reference**

Level: Header
Loop:
Usage: Optional
Max. Use: 10
Purpose: To specify pertinent dates and times. Note that this segment appears in both the PO Header and Detail areas.

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
DTM01	374	Date/Time Qualifier Code specifying the type of date or time, or both date and time. '007' indicates PO effective date and is always used.	M	ID	3/3
DTM02	373	Date Date (CCYYMMDD) Always used in PO's sent by **Oshkosh Corp**. representing the date the PO is issued.	X	DT	8/8

Segment: # N1 **Name**

Level: Header
Loop: N1 Repeat: 200
Usage: Optional
Max. Use: 1
Purpose: To identify a party by type of organization, name and code. **Oshkosh Corporation** normally sends three names, see below.

Data Element Summary

Ref. Des	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual. 'SU' indicates the Supplier/Manufacturer 'BY' indicates buying party 'ST' indicates Ship To location	M	ID	2/2
N102	93	Name Free-Form Name If N101 equals 'BY' then this field always contains '*OSHKOSH CORPORATION*'	X	AN	1/35
N013	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (N104) '9' indicates DUNS+4 number and is used in combination with N104. Note: that the DUN+4 is receiving dock specific.	X	AN	1/2
N104	67	Identification Code Code identifying a party or other code. Used only for 'ST' and contains **Oshkosh** DUNS+4 number.	X	AN	2/17

Segment: # N3 **Address Information**

       Level: Header
       Loop:
       Usage: Optional
       Max. Use: 2
       Purpose: To specify the location of the named party.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
N301	166	Address Information Address Information – first line	M	AN	1/35
N302	166	Address Information Address Information – Second line	O	AN	1/35

Segment: # N4 **Geographic Information**

       Level: Header
       Loop: N1
       Usage: Optional
       Max. Use: 1
       Purpose: To specify the geographic place of the named party.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
N401	19	City Name Free-Form text for city name	O	AN	2/30
N402	156	State or Provincial Code Code (Standard State/Province) as defined by appropriate government agency.	O	ID	2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks. (Zip code for United States).	O	AN	3/9
N404	26	Country Code Code identifying the country 'US' indicates the United States of America and is always sent by Oshkosh Corp.	O	ID	2/3

<p style="text-align:center">Segment: # P01 Baseline Item Data</p>

Level: Detail
Loop: PO1 Repeat 100,000
Usage: Mandatory
Max. Use: 1
Purpose: To specify basic and most frequently used line item data.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions & Usage	Classification	Data Type	Length (min/max)
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. **Oshkosh Corp** always sends our PO line item number in this element.	O	AN	1/11
P0102	330	Quantity Ordered Quantity Ordered Always included in line items sent by **Oshkosh Corp.**	X	R	1/9
P0103	355	Unit or Basis for measurement Code Code Specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Unit Measure. Always included in line items sent by **Oshkosh Corp**.	O	ID	2/2
P0104	212	Unit Price Price per unit of product, service, commodity, etc. Always included on line items sent by **Oshkosh Corp**.	X	R	1/14
P0105	639	Basis of Unit Price Code Code identifying the type of unit price for an item 'CT' indicates Contract 'NE' indicates Not-T-Exceed 'NC' indicates No Charge	O	ID	2/2
P0106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product. Service ID PO107 'BP' indicates Buyer's (**Oshkosh Corp**) part number and is almost always used 'MG' indicates manufacturer's part number.	O	ID	2/2

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PO107	234	Product/Service ID Identifying number for a product or service. When PO106 equals 'BP' then this element is the **Oshkosh Corp** Item/Part Number	X	AN	1/30
P0108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service IED (234) 'VP' indicates Vendor's (Seller's) Part Number	O	ID	2/2
P0109	234	Product/Service ID Vendor's Parts Number Identifying number for a product or service.	X	AN	1/30
P0110	235	Product/Service ID Code identifying the type/source of the descriptive number used in Product/Service ID (234) 'PT' indicates Print or Drawing Number	O	ID	2/2
P0111	234	Product/Service ID Identifying number for a product or service. **Oshkosh Corp** Drawing Number	X	AN	1/30
PO112	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234). 'DR' indicates print or Drawing Revision Level Number Code.	O	ID	2/2
P0113	234	Product/Service ID Identifying number for a product or service. Drawing Revision Level Number/Code for the 'PT' Drawing number in PO110 above.	X	AN	1/30

Segment: **PID** Product/Item Description

Level: Detail
Loop: PO1/PID Repeat 1000
Usage: Optional
Max. Use: 1
Purpose: To describe a product or process in coded or free-form format. **Oshkosh Corp** always sends at least one line of descriptive text, occasionally sends two lines, and never sends more than two lines.

Data Element Summary

Ref. Des.	Data Element	Name, Description **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PID01	349	Item Description Type Code indicating the format of a description 'F' indicates Free-Form description and is always used.	M	ID	1/1
PID05	352	Description A free-form description to clarify the related data elements and their content.	X	AN	1/80

Segment: # DTM Date/Time Reference

Level: Detail
Loop: PO1
Usage: Optional
Max. Use: 10
Purpose: To specify pertinent dates and times. This segment is often sent twice. Please review the notes at the beginning of this chapter for detailed instructions. Note that this segment appears in the PO header area as well as here in the Detail Section.

Data Element Summary

Ref. Des.	Data Element	Name, Description **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
DTM01	374	Date/time Qualifier Code specifying type of date or time, or both date and time. '106' indicates Required By and always used. It represents when the goods must be at our receiving dock. '410' indicates Supplier Commitment date.	M	ID	3/3
DTM02	373	Date Date (CCYYMMDD)	X	DT	8/8

Segment: # MSG Message Text

Level: Header
Loop:
Usage: Optional
Max. Use: 1000
Purpose: To provide a free-form format that allows the transmission of text information.

Data Element Summary

Ref. Des.	Data Element	Name, Description **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
MSG01	933	Free-Form Message Text	M	AN	1/264

Segment: # CTT Transaction Tools

Level: Summary
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.

Data Element Summary

Ref Des	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
CTT01	354	Number of Line Items Total number of line items in the transaction set.	M	NO	1/6
CTT02	347	Hash Total Sum of values in the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the leftmost digits if the sum is greater than the maximum field size of the hash total of the data element. Contains hash total of the value of the Quantity element used in PO102.	O	R	1/10

Segment: **SE** Transaction Set Trailer

Level: Summary
Loop:
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

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
SE01	96	Number of included segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Always sent by **Oshkosh Corp**. This value equals that in the Transaction Set Header (ST02) for the same transaction set.	M	AN	4/9

7

855 – Purchase Order Acknowledgment (Incoming)

General Information

Below is a list of PO changes and/or acknowledgements which may be conveyed through this transaction set. Also shown is the two digit code that represents this status within the ACK01 element.

AC	*Item accepted and shipped*
AR	*Item accepted and released for shipment*
BP	*Item accepted, partial shipment, balance back ordered*
DO	*Item accepted, date rescheduled*
IA	*Item accepted*
IB	*Item backordered*
IC	*Item accepted, changes made*
ID	*Item deleted*
IF	*Item on hold, incomplete description*
IH	*Item on Hold*
IQ	*Item accepted, quantity change*
IW	*Item on hold, waiver required*
SP	*Item accepted, schedule date pending*

Of course, if you send an 855 with one of these codes then the corresponding information should be placed in other areas of the transaction set. For example, if the item is accepted but the quantity to be delivered is changed (code IQ) then the new quantity.

Transaction Set Notes
/The segments described below are required. If your computers send us additional segments they are discarded and the rest of that transaction is proceeded normally.

/   Do not send price change notification via the PO acknowledgment. We do not accept such changes. Please contact the Buyer if you wish to adjust a PO line time unit price.

/   Part substitutions are not allowed via the PO acknowledgment transaction. Please contact the Buyer if you wish to swap an item.

Transaction Set Table

Header Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
ST	Transaction Set Header	M	1	
BAK	Beginning Segment for Purchase Order Acknowledgement	M	1	

Detail Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
PO1	Baseline Item Data	M	1	PO1
ACK	Line Item Acknowledgment	O	1	PO1/ACK

Summary Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
CTT	Transaction Total	M	1	
SE	Transaction Set Trailer	M	1	

Segment Usage

Segment: **ST** Transaction Set Header

Level: Summary
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set Identifier Code Code Uniquely identifying a transaction set '855' is always used.	M	ID	3/3
ST02	329	Transaction Set Control Number Identifying control number, unique within the transaction set functional group Sequential Number, in format 999999999	M	AN	4/9

Segment: **BAK** **Beginning Segment Purchase Order Acknowledgment**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the beginning of the purchase order dates transaction set and transmit identifying numbers and dates.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BAK01	353	Transaction Set Purpose Code Code identifying purpose of transaction set. '00' indicates Original	M	ID	2/2

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BAK02	587	Acknowledgment Type Code specifying the type of Acknowledgment. Important Note! This element is not used by **Oshkosh Corp**. All acknowledgments must be at the line item level. Data in this field is ignored.	M	ID	2/2
BAK03	324	Purchase Order Number Identifying number for Purchase Order as assigned by the **Oshkosh Corp**. Spot Buy Number or Blanket Order Contract Number. This element contains the PO number to be acknowledged with the transaction set.	M	AN	1/22

Segment: **P01**   **Baseline Item Data**

Level: Detail
Loop: P01 Repeat 100,000
Usage: Mandatory
Max. Use: 1
Purpose: To specify basic and most frequently used line item data.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. **Oshkosh Corp** always sends our PO line item number in this element.	O	AN	1/11

<div align="center">

Segment: # ACK **Line Item Acknowledgment**

</div>

Level: Detail
Loop: P01/ACK Repeat 104
Usage: Optional
Max. Use: 1
Purpose: To acknowledge the ordered quantities and specify the ready date fora specific line items.

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ACK01	668	Line Item Status Code Code specifying the action taken by seller on a line item requested by the buyer. Must be a code from the list shown at the beginning of this chapter.	M	ID	2/2
ACK02	380	Quantity Numeric Value of quantity When the Line Item Status Code indicates a change that affects the quantity then the new quantity to be shipped must be in this element.	O	R	1/15
ACK03	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	X	ID	2/2
ACK04	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. '069' Indicates Promised Delivery and is required whenever ACK05 is used.	O	ID	3/3
ACK05	373	Date Date (CCYYMMDD) When the Line Item Status Code indicates a change that affects the promised delivery date then the new commitment date must be sent in this element.	X	ID	8/8

Segment: # CTT **Transaction Totals**

Level: Summary
Loop:
Usage: Optional
Max. Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
CTT01	354	Number of Line Items Total number of line items in the transaction set	M	NO	1/6

Segment: # SE **Transaction Set Trailer**

Level: Summary
Loop:
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).

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
SE01	96	Number of included segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Always sent by **Oshkosh Corp** . This value equals that in the Transaction Set Header (ST02) for the same transaction set.	M	AN	4/9

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856 – Ship Notice/Manifest (Inbound)

Specifications to be Determined

General Information

To be determined.

Transaction Set Notes

To be determined.

Header Area

To be determined.

Summary Area

To be determined.

Segment usage

To be determined

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860 – Purchase Order Change Request – Buyer Initiated (Outgoing)

General Information

The **Oshkosh Corporation** 860 implementation is very compressed and only conveys changed information to our supplier. But for the exception listed below, it follows AIAG guidelines.

Transaction Set Notes

/ Only changed fields will appear in the 860 transaction set. For example, if this PO change is to alter the required delivery date on a PO line item then only the new required delivery date for that one line item would be sent via EDI. All the other information, legal terms & conditions, quantity required, etc. will not be sent and remain in effect on this altered PO line item.

/ The Line Item number element contains the PO Line Item number being changed. This is not an "accumulator" field. So the line item number of the first change sent in a transaction set may or may not be one (1). This element tells our supplier which PO line item is being changed.

/ This transaction set is only used to convey changes to spot buy PO's. Changes to Planning Schedules are handled either with a new 830 Planning Schedule transmission or manually by our Purchasing staff.

/ AIAG standards require that a change counter be placed in the PO header area. In particular, segment BCH, element BCH05 Change Order Sequence Number. We do not use the is element. Our business computer system logs changes at the line item level instead of the header level so the counter is not available to send.

Header Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
ST	Transaction Set Header	M	1	
BCH	Beginning Segment	M	1	

Detail Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
POC	Line Item Change	O	1	POC
DTM	Date/Time Reference	O	1	POC/SLN/SAC

Summary Area

ID	Description	AIAG Req. Des.	Max Use	Loop Repeat
POC	Line Item Change	O	1	POC
DTM	Date/Time Reference	O	1	POC/SLN/SAC

Segment Usage

Segment: # ST **Transaction Set Header**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set Identifier Code Code Uniquely identifying a transaction set. '860' is always used.	M	ID	3/3
ST02	329	Transaction Set Control Number Identifying control number, unique within the transaction set functional group. Sequential number, in format 999999999	M	AN	4/9

Segment: # BCH **Beginning Segment for**

Purchase Order Change

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the beginning of the purchase order change transaction set and transmit identifying numbers and dates.

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BCH01	353	Transaction Set Purpose Code Code identifying purpose of transaction set '04' indicates Change and is always sent	M	ID	2/2
BCH02	92	Purchase Order Type Code Code specifying the type of Purchase order 'CP' indicates Change to Purchase Order and is always sent.	M	ID	2/2
BCH03	324	Purchase Order Number Identifying number for Purchase order as assigned by the **Oshkosh Corp** Spot Buy Purchase Order Number affected by this transaction set.	M	AN	1/22
BCH04	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. Not used by **Oshkosh.**	O	AN	1/30
BCH05	327	Change order Sequence Number Number assigned by ERP identifying a specific change or revision to a previously transmitted transaction set. Not used by **Oshkosh Corp**	O	AN	1/8
BCH06	373	Date The date the Purchase Order was changed.	O	DT	6/6

Segment: **POC** **Line Item Change**

Level: Detail
Loop: PPC Repeat >1
Usage: Optional
Max. Use: 1
Purpose: To specify changes to a line item.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
POC01	350	Assigned identification Alphanumeric characters assigned for differentiation within a transaction set. **Oshkosh Corp** always sends our PO line item number in this element.	O	AN	1/11
POC02	670	Change or Response Type Code Code specifying the type of change to the line item. 'MU' indicates that a Unit Price and/or Quantity and/or required date has changed and is always sent.	M	ID	2/2
POC03	330	Quantity Ordered Quantity Ordered. The quantity originally ordered. Not used by **Oshkosh Corp**.	O	R	1/9
POC04	671	Quantity to Receive Quantity left to receive as qualified by the unit of measure. Indicates, if present the new quantity required.	X	R	1/9
POC05	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Not used by **Oshkosh Corp**.	X	ID	2/2
POC06	212	Unit Price Price per unit of product, service, commodity, etc. If present, indicates new unit price.	X	R	1/17

Segment: # DTM **Date/Time Reference**

Level: Detail
Loop: POC
Usage: Optional
Max. Use: 10
Purpose: To specify pertinent dates and times. When sent, indicates a new required delivery date.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. '106' indicates Required By and is always used. It represents when the goods must be a t our receiving dock.	M	ID	3/3
DTM02	373	Date Date (CCYYMMDD) If present, indicates new required date.	X	DT	6/6

Segment: # CTT **Transaction Totals**

Level:	Summary
Loop:	
Usage:	Optional
Max. Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
CTT01	354	Number of Line Items Total number of line items in the transaction set	M	NO	1/6

Segment: # SE **Transaction Set Trailer**

Level: Summary
Loop:
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

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
SE01	96	Number of included segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Always sent by **Oshkosh Corp**. This value equals that in the Transaction Set header (ST02) for the same transaction set.	M	AN	4/9

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865 – PO Change Acknowledgment/Request – Seller Initiated (Inbound)

General Information

This transaction set is used when our suppliers need to reschedule or change the unit price on a Purchase Order line item. We receive these changes, route them to the appropriate buyer and have them reviewed before accepting and applying the changes.

Our EDI system can receive additional elements and segments from those listed below. Extra information is simply ignored.

Transaction Set Notes

/ Price changes communicated through this transaction set are manually reviewed by the buyer before acceptance. It is desired that proposed price changes be approved with our staff before sending them via the 865.

/ We recommend using the 855 PO Acknowledgment transaction set are manually reviewed by the buyer before acceptance. It is desired that proposed price changes be approved with our staff before sending them via the 865.

Transaction Set Table

Header Area

ID	Description	AIAG Req. Des.	Max use	Loop Repeat
ST	Transaction Set Header	M	1	
BCA	Beginning Segment for Purchase Order Change Acknowledgment	M	1	

Detail Area

ID	Description	AIAG Req. Des.	Max use	Loop Repeat
POC	Line item Change	O	1	POC
CTP	Pricing Information	O	>1	POC
ACK	Line Item Acknowledgment	O	1	POC/ACK

Summary Area

ID	Description	AIAG Req. Des.	Max use	Loop Repeat
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

Segment Usage

Segment: # ST **Transaction Set Header**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set Identifier Code Code Uniquely identifying a transaction set. '865' is always used.	M	ID	3/3
ST02	329	Transaction Set Control Number Identifying control number, unique within the transaction set functional group. Sequential number, in format 999999999	M	AN	4/9

Segment: # BCA **Beginning Segment for Purchase**

Order Change Acknowledgment

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the beginning of the purchase order change acknowledgment transaction set and transmit identifying numbers and dates.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
BCA01	353	Transaction Set Purpose Code Code identifying purpose of transaction set '03' indicates that a PO should be cancelled. '04' indicates a PO Change	M	ID	2/2
BCA02	587	Acknowledgment Type Code specifying the type of Acknowledgment 'AE' indicates that only the changed information is being sent and this type is preferred.	O	ID	2/2
BCA03	324	Purchase Order Number Identifying number for Purchase Order as assigned by the **Oshkosh Corp** Spot Buy Purchase Order Number affected by this transaction set.	M	AN	1/22
BCA04	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. Not used by **Oshkosh Corp**.	O	AN	1/30
BCA05	327	Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set. Not used by **Oshkosh Corp**	O	AN	1/8
BCA06	373	Date Not used by **Oshkosh Corp**	O	DT	6/6

Segment: # POC **Line Item Change**

Level:	Detail
Loop:	POC Repeat>1
Usage:	Optional
Max. Use:	1
Purpose:	To specify changes to a line item.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
POC01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. **Oshkosh Corp** expects the line item number, as shown on the original PO, in this element.	O	AN	1/11
POC-2	670	Change or Response Type Code Code specifying the type of change to the line item. 'MU' indicates that a Unit Price and/or Quantity and/or required date has changed and is preferred.	M	ID	2/2
POC03	330	QUANTITY Ordered Quantity Ordered. The quantity originally ordered. Not bused by **Oshkosh Corp**.	O	R	1/19
POC04	671	Quantity Left TO Receive Quantity left to receive as qualified by the unit of measure Indicates the open quantity on this PO or the new quantity required. Zero indicates that the new quantity left to receive is zero; in other words, this line item is complete and closed.	X	R	1/9
POC05	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Not used by **Oshkosh Corp**.	X	ID	2/2
POC06	212	Unit Price Price per unit of product, service, commodity, etc. If greater than zero, indicates new unit price.	X	R	1/17

Segment: # DTM **Date/Time Reference**

Level: Detail
Loop: POC
Usage: Optional
Max. Use: 10
Purpose: To specify pertinent dates and times. When received, indicates a new required delivery date.

Date Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. '106' or '069' indicates Required By and is always used. It represents when the goods must be at our receiving dock.	M	ID	3/3
DTM02	373	Date Date (CCYYMMDD) Represents the new promised delivery date as set by the supplier. Subject to **Oshkosh Corp** buyer approval.	X	DT	6/6

Segment: # CTP **Pricing Information**

Level: Detail
Loop: POC
Usage: Optional
Max. Use: 1
Purpose: To specify pricing information

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Date Type	Length (min/max)
CTP01	687	Class of Trade Code Code indicating class of trade. Not used by **Oshkosh Corp**.	O	ID	2/2
CTP02	236	Price Identifier Code Code identifying pricing specification. Not used by **Oshkosh Corp**. All price changes are forwarded to buyer for individual approval.	X	ID	3/3
CTP03	212	Unit Price Price per unit of product, service, commodity, etc.	O	R	1/17

Segment: # ACK **Line Item Acknowledgment**

Level: Detail
Loop: POC /ACK Repeat 104
Usage: Optional
Max. Use: 1
Purpose: To acknowledge the ordered quantities and specify the ready date for a specific line item.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and usage	Classification	Data Type	Length (min/max)
ACK01	668	Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer.	M	ID	2/2
ACK02	380	Quantity Numeric value of quantity. Indicates open Quantity.	X	R	1/15
ACK03	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	O	R	1/9
ACK04	374	Date/Time Qualifier Code specifying type or date or time, or both date and time.	O	ID	3/3
ACK05	373	Date Date (CCYYMMDD)	X	DT	6/6

Segment: # CTT **Transaction Totals**

Level: Summary
Loop:
Usage: Optional
Max. Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and usage	Classification	Data Type	Length (min/max)
CTT01	354	Number of Line Items Total number of line items in the transaction set	M	NO	1/6

Segment: # SE **Transaction Set Trailer**

Level: Summary
Loop:
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

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
SE01	96	Number of included segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Always sent by **Oshkosh Corp**. This value equals that in the Transaction Set Header (ST02) for the same transaction set.	M	AN	4/9

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997 – Functional Acknowledgment

General Information

Oshkosh Corp uses the 997 Functional Acknowledgment to verify that transmissions have been correctly communicated to/from our Trading Partners. This transaction set is used to insure that the whole transaction set is transmitted without technical difficulties. Our staff carefully reviews a and follows up on all AK2 and AK3 error messages. Transaction accuracy is one of our highest concerns! A Sterling Commerce GENTRAN manual has a great explanation of the functional acknowledgement:

> *"Efficiently managing an EDI system requires that you regularly "audit' to ensure that transmissions, both sent outbound and received inbound, are acknowledged. Acknowledgments are like registered mail where the receiver signs for the delivery, indicating the status of the package that was received (i.e., was it damaged or received normally).*

We require Functional acknowledgments for all transaction sets and send them upon receipt of all transactions, unless asked otherwise. The requirement to send a functional acknowledgment still applies when another reciprocal transaction set could be sent in response. For example, the PO Acknowledge still applies when another reciprocal transaction set could be sent in response. For example, the PO Acknowledgment transactions set (855) might be returned to **Oshkosh Corp** by our trading partner after receiving our 850. But we still require the 997 functional acknowledgment in response to the original 850 Purchase Order.

It is **Oshkosh** practice to utilize both Functional Group level and Transaction set level acknowledgments. When returning 997's to us please include both types.

Our default practice is to send Transaction Set Level acknowledgments for every one we receive from or partners. If requested, this can be turned off to eliminate 997 transmission back to our partners at both the Functional Group and Transaction Set Levels.

Transaction Set Number	Transaction Set Name	Functional acknowledgment Required?
810	Invoice (Outgoing)	Yes
830	Planning Schedule (Outgoing)	Yes
850	Purchase Order (Outgoing)	Yes
997	Functional Acknowledgment	No

Transaction Set Table

ID	Description	AIAG Req. Des.	Max. use	Loop Repeat
ST	Transaction Set Header	M	1	
AK1	Functional Group Response Header	M	1	
AK2	Transaction Set Response Header	O	1	AK2/AK3
AK3	Data Segment Note	O	1	AK2/AK3
AK4	Data Segment Note	O	99	AK2/AK3
AK5	Transaction Set Response	M	1	AK2
AK9	Functional Group Response Trailer	M	1	
SE	Transaction Set Trailer	M	1	

Segment Usage

Segment: # ST **Transaction Set Header**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate the start of the transaction set and assign a control number.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
ST01	143	Transaction Set Identifier Code Code Uniquely identifying a transaction set '997' is always used.	M	ID	3/3
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.	M	AN	4/9

Segment: # AK1 **Functional Group Response Header**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To start acknowledgment of a functional group.

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets. This code is reciprocated from the transactions we are acknowledging. Typically, 'PO' indicates Purchase Order 'IN' indicates Invoice 'RA' indicates Remittance Advice	M	ID	2/2
AK102	28	Group Control Number Assigned number originated and maintained by the sender. Must equal the value of the GS08 of the functional group being acknowledged.	M	NO	1/9

Segment: **AK2** **Transaction set Response Header**

Level: Header
Loop: AK2 repeat 999,999
Usage: Optional
Max. Use: 1
Purpose: To start acknowledgment of a single transaction set.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set. '810' indicates Invoice '820' indicates Remittance Advice '850' indicates Purchase Order	M	ID	3/3
AK202	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Contains/Must Contain the value in element ST02 in the transaction set being acknowledged.	M	NO	1/9

Segment: # AK3 **Data Segment Note**

Level:	Header
Loop:	AK2 repeat 999,999
Usage:	Optional
Max. Use:	1
Purpose:	To report errors in a data segment and to identify the location of the data segment.

Data Element Summary

Ref. Des.	Data Element	Name, Description **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK301	721	Segment ID Code Code defining the segment ID of the data segment in error.	M	ID	2/3
AK302	719	Segment position in the Transaction Set The numerical count position of this data segment from the start of the transaction set; the transaction set header is count position 1.	M	ID	1/6
AK303	447	Loop Identifier Code The Loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	O	AN	1/4
AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment.	O	ID	1/3

Segment: # AK4 **Data Element Note**

Level:	Header
Loop:	AK2/AK3
Usage:	Optional
Max. Use:	99
Purpose:	To report errors in a data element and to identify the location of the data element.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK401	722	Element Position in Segment This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID.	M	NO	½
AK402	725	Data Element Reference Number Reference number used to locate the data element dictionary.	O	NO	¼
AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data element.	M	ID	1/3
AK404	724	Copy of Bad Data Element This is a copy of the data element in error.	O	AN	1/99

Segment: # AK5 **Transaction Set Response**

Level: Header
Loop: AK2
Usage: Mandatory
Max. Use: 1
Purpose: To acknowledge acceptance or rejection and to report errors in a transaction set.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK501	717	Transaction Set Acknowledgment Code Code indicating accept or reject condition based on the syntactical editing of the transaction set. 'A' indicates Accepted 'E' indicates accepted, but errors were noted 'R' indicates Rejected	M	ID	1/1
AK502	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of the transaction set.	O	ID	1/3
AK503	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of the transaction set.	O	ID	1/3

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK504	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of the transaction set.	O	ID	1/3
AK505	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of the transaction set.	O	ID	1/3
AK506	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of the transaction set.	O	ID	1/3

Segment: **AK9** **Functional Group Response Trailer**

Level: Header
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group.

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK901	715	Functional Group Acknowledgment Code Code indicating accept or reject condition based on the syntax editing of the functional group. 'A' indicates Accepted 'E' indicates accepted but errors were noted 'P' indicates partially accepted, at least one transaction set was rejected 'R' indicates Rejection	M	ID	1/1
AK902	97	Number of Transaction Sets included Total number of transaction sets included in the functional group or interchange group terminated by the trailer containing this data element. Number of transaction sets (value of GE01 in the received functional group).	M	NO	1/6

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
AK903	123	Number or Received Transaction Sets Number of Transaction Sets Received.	M	NO	1/6
AK904	2	Number of Accepted Transaction Sets Number of accepted transaction sets in a functional group.	M	NO	1/6

Segment: # SE **Transaction Set Trailer**

Level: Summary
Loop:
Usage: Mandatory
Max. Use: 1
Purpose: To indicate of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Data Element Summary

Ref. Des.	Data Element	Name, Description, **Oshkosh Corp** Conventions and Usage	Classification	Data Type	Length (min/max)
SE01	96	Number of included segments Number of Transaction Sets Received.	M	NO	1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Use value in ST02 in this 997 Transaction Set.	M	AN	4/9

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Change Log

This book goes through frequent revisions as or EDI/EC program evolves. Below is a list of changes to the book. This list is intended to help you quickly identify changes when you receive a new version
of the document.

List of changes to this Guide

Version/ Published Date	Chapter(s)	Paragraph or other Identifier	Nature of Change
05/29/97	Index		Various corrections and additions
05/29/97	810 – Invoice (Outgoing)		Chapter added
05/29/97	Setup and Testing	First 2 pages of chapter	Rewritten to clarify process for getting started with **Oshkosh.**
05/29/97	850 Purchase Order (Outgoing)	Segment Usage	Added descriptions for Drawing and Revision elements
09/3097	Change Log		Chapter added
09/30/97	Setup and Testing	ICS Interchange Control Structures	Added element descriptions for US Government trading partners
09/30/97	Various		Changed **Oshkosh Corp** telephone area codes from 414 to 920
09/30/97	Quick Reference/Information, 997 Functional Acknowledgment		Upgrade 997 to receive and send version 3050
09/30/97	General Information	Pickup & Delivery Schedule	Plans to increase the frequency of our VAN transmissions is now Fall 97
09/30/97	Trading Partner Agreement, Setup & Testing	Steps 4 & 5 – Executing the Trading Partner Agreement	Clarified process for executing agreement
3/15/01	Updated Sped to V4010		
3/15/01	830 – Planning Schedule (Outgoing) DUN+4 – N2 segment		
3/15/01	850 – Purchase Order DUN+4 – N1 segment		
3/15/01	Quick Reference/Information change contact information.		
09/30/97	Purchase Order (outgoing)	General Information, Transaction Set Notes	Clarified Unit of Measure code usage. PC vs EA

Version/ Published Date	Chapter(s)	Paragraph or other Identifier	Nature of Change
09/30/97	Purchase Order (Outgoing)	General Information, Segment Usage	Added 410 "Date of Firm Commitment' Date segment
09/30/97	Quick Reference/Information	Value Added Network	Added old Advantis mailbox to list. Still in use although phasing this mailbox out.
01/05/98	Quick Reference/Information	Contact Information	Updated names EDI Coordinators.
01/05/98	Quick Reference/Information	Technical Information, Currently Supported Transaction Sets	Updated list to include 830 and 860 transaction sets.
01/05/98	Quick Reference/Information	EDI Partner Survey Form, Transaction Sets	Updated list to include 830 and 860 transaction sets
01/05/98	Trading Partner Agreement	Trading partner Agreement	Added dates to signature blocks
01/05/98	830 – Planning Schedule (Outgoing)		Chapter added.
03/19/98	855 – Purchase Order Acknowledgment (Incoming)		Chapter added.
03/19/98	Setup and Testing	Pickup & Delivery Schedule	Revised the Schedule
05/18/98	860 – Purchase Order Change Request – Buyer Initiated		Chapter added.
05/18/98	865 – PO Change acknowledgment/Request – Seller Initiated		Chapter Added.