ACE HARDWARE

810 INVOICE ANSI X12 4010

*NOTES: FOR ALL INVOICES ACE WILL CALCULATE THE EXTENDED COST OF EACH LINE ITEM THEN ROUND TO TWO)2) DECIMALS
FOR A NEGOTIABLE AMOUNT: **IT102 QUANTITY INVOICED X IT104 UNIT PRICE=ITEM EXTENDED COST**
ACE WILL CALCULATE THE GROSS, TOTAL AMOUNT FOR COMPARISON TO THE TDS01:**(SUM OF ITEM EXTENDED**
(SUM OF ITEM EXTENDED COST + SAC05 FREIGHT CHARGE + SAC05 MISC CHARGE(S))
- SAC05 ALLOWANCE(S) = TDS01 TOTAL INVOICE AMOUNT.

EXISTING DOCUMENT - SEE HIGHLIGHTED FIELDS FOR NEW ADDITIONS

PLEASE REVIEW THE WAY YOU ARE TRANSMITTING YOUR EDI DOCUMENTS TO ACE AND MAKE ANY NECESSARY CHANGES ON
YOUR END TO AVOID SENDING DIFFERENT DOCUMENT TYPES IN THE SAME ISA ENVELOPE.
***INVOICES, CREDITS, 856'S AND 997'S MUST BE SENT IN SEPARATE ENVELOPES

MAKE SURE YOU ARE SENDING ALL MANDATORY INFORMATION IN CORRECT ELEMENTS. FINES MAY BE ISSUED ON ALL
DOCUMENTS WHERE DATA IS MISSING OR SENT INCORRECTLY

ISA SEGMENT INTERCHANGE CONTROL HEADER OCCURS 1 TIME
(X12 MANDATORY ENVELOPE) ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
ISA01	I01	AUTHORIZATION INFO QUAL.	M	M	ID	02/02	"00".
ISA02	I02	AUTHORIZATION INFORMATION	M	M	AN	10/10	FOLLOW STANDARD.
ISA03	I03	SECURITY INFO QUALIFIER	M	M	ID	02/02	"00".
ISA04	I04	SECURITY INFORMATION	M	M	AN	10/10	FOLLOW STANDARD.
ISA05	I05	INTERCHANGE SENDER ID QUALIFIER	M	M	ID	02/02	YOUR EDI ID QUALIFIER.
ISA06	I06	INTERCHANGE SENDER ID	M	M	ID	15/15	YOUR EDI ID (IE. DUNS #).
ISA07	I05	INTERCHANGE RECEIVER ID QUALIFIER	M	M	ID	02/02	IF SENDING TO ACE: "ZZ" = ACE TEST QUALIFIER. "01" = ACE PRODUCTION QUALIFIER.
ISA08	I07	INTERCHANGE RECEIVER ID	M	M	ID	15/15	IF SENDING TO ACE: "7089906600" = ACE TEST ID. "006928311" = ACE PRODUCTION ID.
ISA09	I08	TRANSMISSION DATE	M	M	DT	06/06	YYMMDD.
ISA10	I09	TRANSMISSION TIME	M	M	TM	04/04	HHMM.
ISA11	I10	INTERCHANGE CONTROL ID	M	M	ID	01/01	"U".
ISA12	I11	INTERCHANGE VERSION NUMBER	M	M	ID	05/05	"00400".
ISA13	I12	INTERCHANGE CONTROL NUMBER	M	M	N0	09/09	9 DIGIT CONTROL NUMBER.
ISA14	I13	ACKNOWLEDGEMENT REQUEST FLAG	M	M	ID	01/01	"0".
ISA15	I14	TEST INDICATOR	M	M	ID	01/01	"T" = TEST. "P" = PRODUCTION.
ISA16	I15	SUBELEMENT SEPARATOR	M	M	AN	01/01	FOLLOW STANDARD.

Revised 06/07/2022

GS SEGMENT

FUNCTIONAL GROUP HEADER (X12 MANDATORY ENVELOPE)

OCCURS 1 TIME
ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
GS01	479	FUNCTIONAL ID	M	M	ID	02/02	USE "IN" FOR INVOICE INFORMATION.
GS02	142	GROUP/APPLICATION SENDER ID	M	M	ID	02/15	YOUR GROUP/EDI ID.
GS03	124	GROUP/APPLICATION RECEIVER ID	M	M	ID	02/15	IF SENDING TO ACE: "7089906600" = ACE TEST ID. "006928311" = ACE PRODUCTION ID.
GS04	373	APPLICATION GROUP DATE	M	M	DT	08/08	CCYYMMDD.
GS05	337	APPLICATION GROUP TIME	M	M	TM	04/08	HHMM OR HHMMSS OR HHMMSSDD.
GS06	28	APPLICATION GROUP CONTROL NUMB	M	M	N0	01/09	FOLLOW STANDARD.
GS07	455	RESPONSIBLE AGENCY CODE	M	M	ID	01/02	USE "X" FOR ANSI X12.
GS08	480	VERSION/RELEASE INDUSTRY CODE	M	M	ID	01/12	"004010".

ST SEGMENT

TRANSACTION SET HEADER (X12 MANDATORY ENVELOPE)

OCCURS 1 TIME
ACE MANDATORY ENVELOPE

DATA SEGMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
ST01	143	TRANSACTION SET ID	M	M	ID	03/03	"810" FOR X12 INVOICE.
ST02	329	TRANSACTION SET CONTROL NO.	M	M	AN	04/09	FOLLOW STANDARD.

BIG SEGMENT

BEGINNING SEGMENT FOR INVOICE

OCCURS 1 TIME

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
BIG01	373	INVOICE DATE	M	M	DT	08/08	INVOICE DATE.
BIG02	76	INVOICE NUMBER	M	M	AN	01/22	INVOICE NUMBER.
BIG03	373	PO DATE	O	M	DT	08/08	PO DATE.
*BIG04	324	PO NUMBER	O	M	AN	01/22	PO NUMBER.
BIG05	328	RELEASE NUMBER	O	M	AN	01/30	CREDIT AUTHORIZATION NUMBER DROP SHIP ONLY
BIG07	640	TRANSACTION TYPE CODE	O	M	ID	02/02	"DI" FOR DEBIT INVOICES

REF SEGMENT

REFFERENCE NUMBERS

MULTIPLE OCCURRENCE POSSIBLE

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
REF01	128	REFERENCE NUMBER QUALIFIER	M	M	ID	02/03	DESCRIBES TYPE OF REF NUMBER FOR ACE USE: "IA" = INTERNAL ACE VENDOR NUMBER.
REF02	127	REFERENCE NUMBER	X	M	AN	01/30	IF REF01 = "IA" USE THE ACE VENDOR #.

N1 SEGMENT

NAME — N1 LOOP (LOOP WILL REPEAT)

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N101	98	ENTITY IDENTIFIER CODE	M	M	ID	02/03	USE ONE OF THE FOLLOWING CODES PER N1 LOOP: "ST" = SHIP TO "RE" = REMIT TO "RC" = RECEIVING OR JOB SITE LOCATION WHEN APPLICABLE.
N102	93	NAME	X	M	AN	01/60	IF N101 = "ST" USE THE SHIP TO NAME IF N101 = "RE" USE THE REMIT TO NAME IF N101 = "RC" USE THE RECEIVING/JOB SITE LOCATION NAME.

*NOTE THE N1 LOOP SHOULD APPEAR TWICE, ONCE FOR SHIP TO AND ONCE FOR REMIT TO.

N2 SEGMENT

ADDITIONAL NAME INFORMATION — CAN OCCUR 2 TIMES (PER N1 LOOP)

ACE OPTIONAL SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N201	93	NAME	M	-	AN	01/60	SHIP TO, REMIT TO, REC/JOB SITE NAME

N3 SEGMENT

ADDRESS INFORMATION — CAN OCCUR 2 TIMES (PER N1 LOOP)

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ACE REQ	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N301	166	ADDRESS	M	M	ID	01/55	SHIP TO, REMIT TO OR RECV/JOB SITE AD
N302	166	ADDRESS	O	O	ID	01/55	SHIP TO, REMIT TO OR RECV/JOB SITE AD

N4 SEGMENT

GEOGRAPHIC LOCATION — OCCURS 1 TIME (PER N1 LOOP)

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
N401	19	CITY NAME	O	M	AN	02/30	SHIP TO, REMIT TO, RECV/JOB SITE CITY.
N402	156	STATE OR PROVINCE CODE	O	M	ID	02/02	SHIP TO, REMIT TO OR RECV/JOB SITE ST
N403	116	POSTAL CODE	O	M	ID	03/15	SHIP TO, REMIT TO OR RECV/JOB SITE ZIP.
N405	309	LOCATION QUALIFIER	O	M	ID	01/02	USE THIS ELEMENT IF N101 = "ST" USE "SN" IF SHIP TO IS A STORE. USE "DC" IF SHIP TO IS A DISTRIBUTION. CENTER OR RSC.
N406	310	LOCATION IDENTIFIER	X	M	AN	01/30	IF N405 = "SN" USE THE SHIP TO STORE #. THE STORE NUMBER CAN BE FOUND IN THE "ACE STORE LIST BY STATE & CITY BOOK". DO NOT PREFIX THE STORE NUMBER WITH THE DUNS NUMBER. IF N405 = "DC" USE THE LOCATION ID OF RSC/DC (RETAIL SUPT CTR/DIST CTR).

ITD SEGMENT
TERMS OR DEFERRED TERMS OF SALE

ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
ITD01	336	TERMS TYPE CODE	O	M	ID	02/02	"14" =TERMS PREVIOUSLY AGREED UPON.
ITD02	333	TERMS BASIS DATE CODE	O	M	ID	01/02	CODE IDENTIFYING BEGINNING OF TERMS PERIOD: CODE "3" = INVOICE DATE.
ITD03	338	TERMS DISCOUNT %	O	X	R	01/06	PERCENT OF GROSS AMOUNT THAT CAN BE DEDUCTED IF INVOICE IS PAYED BY DUE DATE. DO NOT USE DECIMAL POINTS FOR %.
*ITD04	370	TERMS DISCOUNT DUE DATE	X	X	DT	08/08	DATE PAYMENT IS DUE, IF DISCOUNT IS TO BE REALIZED.
*ITD05	351	TERMS DISCOUNT DAYS DUE	X	X	N0	01/03	# OF DAYS UNTIL PAYMENT IS DUE, IF DISCOUNT IS TO BE REALIZED.
*ITD06	446	TERMS NET DUE DATE	O	X	DT	08/08	DATE TOTAL GROSS INVOICE IS DUE.
*ITD07	386	TERMS NET DAYS DUE	O	X	N0	01/03	# OF DAYS UNTIL TOTAL INVOICE IS DUE (DISCOUNT NOT APPLICABLE).
ITD08	362	TERMS DISCOUNT AMOUNT	O	X	N2	01/10	DISCOUNT REFLECTED AS $ AMOUNT.

*NOTE PLEASE INCLUDE EITHER ITD04 OR ITD05 BUT NOT BOTH. ALSO, INCLUDE EITHER ITD06 OR ITD07 BUT NOT BOTH.

DTM SEGMENT
DATE/TIME REFERENCE

MULTIPLE OCCURRANCE POSSIBLE

ACE OPTIONAL SEGMENT

DATA SEGMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
DTM01	374	DATE/TIME QUALIFIER	M	-	ID	03/03	USE CODE "011" FOR DATE SHIPPED.
DTM02	373	DATE	X	-	DT	08/08	ACTUAL DATE SHIPPED.

IT1 SEGMENT

BASELINE ITEM DATA

IT1 LOOP (LOOP CAN REPEAT)
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
IT101	350	ASSIGNED IDENTIFICATION	O/Z	M	AN	01/20	PO LINE ITEM IDENTIFICATION
IT102	358	QUANTITY INVOICED	X	M	R	01/10	QUANTITY INVOICED.
IT103	355	UNIT OF MEASURE CODE	X	M	ID	02/02	USE CODE "EA" FOR EACH.
IT104	212	UNIT PRICE	X	M	R	01/17	NET "EACH" PRICE.
CONDITIONAL PAIRS IT106-IT111 MAY OCCUR IN ANY ORDER							
*IT106	235	PROD/SERV ID QUALIFIER	X	M	ID	02/02	"UK"=UPC CODE OR
*IT107	234	PRODUCT /SERVICE ID	X	M	AN	01/48	UPC OR EAN NUMBER.
*IT108	235	PROD/SERV ID QUALIFIER	X	M	ID	02/02	USE "IN" FOR BUYERS ITEM #.
*IT109	234	PRODUCT /SERVICE ID	X	M	AN	01/48	ACE SKU NUMBER.
*IT110	235	PROD/SERV ID QUALIFIER	X	M	ID	02/02	USE CODE "VN" FOR VENDORS REF. NO.
*IT111	234	PRODUCT /SERVICE ID	X	M	AN	01/48	MANUFACTURER NO (VENDOR REF #).

*NOTE: WE REQUEST ALL THREE PRODUCT/SERVICE ID (IT107, IT109 AND IT111 PER LINE ITEM(IT1).
UPC IS MANDATORY. THESE IDENTIFIERS MAY BE IN ANY ORDER, BUT MUST BE PROCEEDED
WITH THE PRODUCT/SERVICE QUALIFIER SHOWN IN THE FORMATS. "UP" PRODUCT ID IS CHANGED TO "UK"
TO FACILITATE GLOBAL COMMERCE. THE 12-DIGIT UPC IS EXPANDED TO 14-DIGIT

** FOR RSC PO'S - REQUESTED TO SEND BACK THE PO LINE NUMBER OF ITEM IN THE IT101
** IT104 - EACH PRICE - YOU NEED TO RETURN THE SAME PRICE YOU RECEIVED ON THE PURCHASE ORDER
** FOR RSC PO'S - ALL THREE IDENTIFIERS ARE SENT ON PO'S - YOU ARE REQUESTED TO SEND ALL BACK
** FOR DROP SHIP INVOICES - YOU NEED TO SEND BACK YOUR VENDOR REF # AND UPC
** NEGATIVE SIGN/CHARACTER IS NOT ALLOWED IN THE IT102
IF A DEDUCTION IS NEEDED - YOU CAN ONLY USE THE NEGATIVE SIGN IN THE IT104
** NEGATIVE SIGN/CHARACTER CANNOT BE USED IN ANY OTHER SEGMENT

IT3 SEGMENT

ADDITIONAL ITEM DATA

OCCURS 1 TIME (PER IT1 LOOP)
ACE OPTIONAL SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
IT304	383	QUANTITY DIFFERENCE	X	-	R	01/09	QUANTITY ON BACKORDER.

PID SEGMENT

PRODUCT ITEM DISCRIPTION

OCCURS 1 TIME (PER IT1 LOOP)
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
PID01	349	ITEM DESCRIPTION TYPE	M	M	ID	01/01	USE "F" FOR FREE FORM.
PID05	352	DESCRIPTION	X	M	AN	01/80	PRODUCT DESCRIPTION .

TDS SEGMENT

TOTAL MONETARY VALUE SUMMARY

OCCURS 1 TIME
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
TDS01	610	TOTAL INVOICE AMT	M	M	N2	01/15	GROSS TOTAL DUE, INCLUDING FREIGHT CHARGES AND ALLOWANCES. DO NOT USE DECIMAL POINT.

CAD SEGMENT

CARRIER DETAIL

OCCURS 1 TIME
ACE OPTIONAL SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
CAD05	387	ROUTING	X	-	AN	1/35	CARRIER NAME.

SAC SEGMENT

ALLOWANCE / CHARGE

MULTIPLE OCCURRANCE POSSIBLE
ACE OPTIONAL SEGMENT

DATA ELEMENT	ELEMENT NAME	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
SAC01	248	ALLOWANCE/CHARGE INDICATOR	M	M	ID	01/01	"C" = CHARGE "A" = ALLOWANCE
SAC03	559	AGENCY QUALIFIER CODE	X	M	ID	02/02	THERE ARE MANY CODES; ACE WILL SPECIFICALLY USE: "FC" = FREIGHT CHARGE "FA" = FREIGHT ALLOWANCE NOTE: ACE ACCEPTS ALL STANDARD CODES, BUT TREATS THEM AS A MISC CHARGE OR ALLOWANCE.
SAC04	1301	ALLOWANCE/CHARGE CODE	X	M	AN	01/10	"ZZ"-MUTUALLY DEFINED.
SAC05	610	AMOUNT	O	M	N2	01/15	TOTAL ALLOWANCE/CHARGE AMOUNT.
SAC15	352	DESCRIPTION	X	M	AN	01/80	DESCRIPTION OF ALLOWANCE/CHARGE.

*NOTE MULTIPLE SAC SEGMENTS CAN BE SENT.

CTT SEGMENT

TRANSACTION TOTALS

OCCURS 1 TIME
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
CTT01	354	NUMBER OF LINE ITEMS	M	M	N0	01/06	TOTAL NUMBER OF INVOICE LINES I.E. SUM OF IT1 OCCURENCES.
CTT02	347	HASH TOTALS	O	O	R	01/10	TOTAL EACHES INVOICED I.E. SUM OF IT102 CONTENTS.
CTT03	81	WEIGHT	X	O	R	01/10	TOTAL WEIGHT OF ORDER.
CTT04	355	UNIT OF MEASUREMENT CODE	X	X	ID	02/02	"ZZ" = MUTUALLY DEFINED.

SE SEGMENT

TRANSACTION SET TRAILER (X12 MANDATORY ENVELOPE) — OCCURS 1 TIME — ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
SE01	96	NUMBER OF INCLUDED SEGMENTS	M	M	N0	01/06	FOLLOW STANDARD.
SE02	329	TRANSACTION SET CONTROL NO	M	M	AN	04/09	FOLLOW STANDARD.

GE SEGMENT

FUNCTIONAL GROUP TRAILER (X12 MANDATORY ENVELOPE) — OCCURS 1 TIME — ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
GE01	97	NO. OF INCLUDED TRANSACTION SETS	M	M	N0	01/06	FOLLOW STANDARD.
GE02	28	GROUP CONTROL NO	M	M	N0	01/09	FOLLOW STANDARD.

IEA SEGMENT

INTERCHANGE CONTROL TRAILER (X12 MANDATORY ENVELOPE) — OCCURS 1 TIME — ACE MANDATORY ENVELOPE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
IEA01	I16	NUMBER OF INCLUDED GROUPS	M	M	N0	01/05	FOLLOW STANDARD.
IEA02	I12	INTERCHANGE CONTROL NO	M	M	N0	01/09	FOLLOW STANDARD.