ACE HARDWARE
856 ADVANCE SHIP NOTICE   ANSI X12 4010

*NOTES: PLEASE REFERENCE 1 PO PER 856 TRANSACTION SET (ST-SE ENVELOPE). THE 856 SHOULD BE SENT
THE SAME DAY THE ORDER IS SHIPPED. MAKE SURE ALL SHIP QUANTITIES ON THE 856 ARE IN THE SAME
"UNIT OF MEASURE" AS THEY ARE ON THE PURCHASE ORDER.
PLEASE REVIEW THE WAY YOU ARE TRANSMITTING YOUR EDI DOCUMENTS TO ACE AND MAKE ANY NECESSARY
CHANGES ON YOUR END TO AVOID SENDING TWO DIFFERENT DOCUMENT TYPES IN THE SAME ISA ENVELOPE.

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 QUALIFIER	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 03/07

GS SEGMENT — FUNCTIONAL GROUP HEADER

GS SEGMENT   FUNCTIONAL GROUP 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
GS01	479	FUNCTIONAL ID	M	M	ID	02/02	USE "SH" FOR ADVANCED SHIP NOTICE.
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	29	APPLICATION GROUP DATE	M	M	DT	08/08	CCYYMMDD.
GS05	30	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

ST SEGMENT   TRANSACTION SET 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
ST01	143	TRANSACTION SET ID	M	M	ID	03/03	"856" FOR X12 ADVANCED SHIP NOTICE.
ST02	329	TRANSACTION SET CONTROL NO.	M	M	AN	04/09	FOLLOW STANDARD.

BSN SEGMENT — BEGINNING SEGMENT FOR SHIP NOTICE

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
BSN01	353	TRANSACTION SET PURPOSE CODE	M	M	ID	02/02	"00" = ORIGINAL.
BSN02	396	SHIPMENT IDENTIFICATION	M	M	AN	02/30	SHIPMENT ID ASSIGNED BY VENDOR.
BSN03	373	DATE	M	M	DT	08/08	DATE OF 856 CREATION.
BSN04	337	TIME	M	M	TM	04/08	TIME OF 856 CREATION.

HL SEGMENT — HIERARCHICAL LEVEL

SHIPMENT LEVEL (HL LOOP FOR SHIPMENT LEVEL)

HL LOOP (ONLY LOOP TO REPEAT IN 856)
ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	USE "S" FOR SHIPMENT LEVEL.

TD1 SEGMENT — CARRIER DETAILS

QUANTITY AND WEIGHT

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
TD107	81	WEIGHT	X	-	R	01/10	WEIGHT OF SHIPMENT.
TD108	355	UNIT OF MEASURE	X	-	ID	02/02	USE "LB" FOR POUNDS.

TD5 SEGMENT

CARRIER DETAILS   OCCURS 1 TIME

ROUTING SEQUENCE/TRANSIT TIME   ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
TD502	66	ID CODE QUALIFIER	X	M	ID	01/02	"2" = SCAC CODE QUALIFIER.
TD503	67	ID CODE	X	M	AN	02/80	SCAC CODE. (ACE'S SCAC = ACHW)
TD505	387	ROUTING	X	M	AN	01/35	CARRIER NAME.

REF SEGMENT

REFERENCE NUMBERS   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
REF01	128	REFERENCE # QUALIFIER	M	M	ID	02/03	"CN" = CARRIER REF # (PRO #).

REF02	127	REFERENCE NUMBER
		
		* SEE NOTE BELOW
			X	M	AN	01/30	VALID PRO #, BILL OF LADING #,
							  OR A UNIQUE SHIPMENT IDENTIFIER
							  IS REQUIRED.

* FOR SHIPMENTS TRANSPORTED VIA ACE TRUCKS - PLEASE USE YOUR INTERNAL SHIPMENT # OR ORDER # FOR THE REF02.
THE REF02 ELEMENT IS MANDATORY AND CANNOT BE ALPHA ONLY.

DTM SEGMENT

DATE/TIME REFERENCE   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
DTM01	374	DATE/TIME QUALIFIER	M	M	ID	03/03	USE "011" FOR DATE SHIPPED.
DTM02	373	DATE	X	M	DT	08/08	DATE SHIPPED YYYYMMDD.

N1 SEGMENT NAME   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
N101	98	ENTITY IDENTIFIER	M	-	ID	02/03	USE "SF" FOR SHIPPED FROM.
N102	93	NAME	X	-	AN	01/60	VENDOR NAME.

N3 SEGMENT ADDRESS INFORMATION   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
N301	166	ADDRESS	M	-	AN	01/55	ADDRESS OF SHIPMENT'S ORIGIN POINT.

N4 SEGMENT GEOGRAPHIC LOCATION   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
N401	19	CITY	O	-	AN	02/30	CITY OF SHIPMENT'S ORGIN POINT.
N402	156	STATE	O	-	ID	02/02	STATE OF SHIPMENT'S ORIGIN POINT.
N403	116	ZIP	O	-	ID	03/15	ZIP OF SHIPMENT'S ORIGIN POINT.

HL SEGMENT HIERARCHICAL LEVEL   HL LOOP (SECOND OCCURRANCE OF LOOP)
ORDER LEVEL   (HL LOOP FOR ORDER LEVEL)   ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL02	734	HIERARCHICAL PARENT ID	O	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	USE "O" FOR PO LEVEL.

PRF SEGMENT PURCHASE ORDER REFERENCE 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
PRF01	324	PO NUMBER	M	M	AN	01/22	PO NUMBER.

HL SEGMENT HIERARCHICAL LEVEL HL LOOP (THIRD OCCURRANCE OF LOOP)

ITEM LEVEL (HL LOOP FOR ITEM LEVEL) ACE MANDATORY SEGMENT

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	ACE REQ	DATA TYPE	ELEMENT LENGTH	ACE REQUESTED FIELD CONTENTS
HL01	628	HIERARCHICAL ID NUMBER	M	M	AN	01/12	FOLLOW STANDARD.
HL02	734	HIERARCHICAL PARENT ID	O	M	AN	01/12	FOLLOW STANDARD.
HL03	735	HIERARCHICAL LEVEL CODE	M	M	ID	01/02	"I" = ITEM LEVEL.

LIN SEGMENT ITEM IDENTIFICATION   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
LIN02	235	PRODUCT / SERVICE ID QUALIFIER	M	M	ID	02/02	"UK" = UPC CODE OR... "IN" = BUYERS ITEM NUMBER OR... "VN" = VENDORS ITEM NUMBER.
LIN03	234	PRODUCT / SERVICE ID	M	M	AN	01/48	IF LIN02 = "UK" ENTER UPC OR EAN #. IF LIN02 = "IN" ENTER ACE SKU NUMBER. IF LIN02 = "VN" ENTER VENDORS ITEM NUMBER, (MANUFACTURES ITEM NO.).
LIN04	235	PRODUCT / SERVICE ID QUALIFIER	X	O	ID	02/02	"UK" = UPC CODE OR... "IN" = BUYERS ITEM NUMBER OR... "VN" = VENDORS ITEM NUMBER.
LIN05	234	PRODUCT / SERVICE ID	X	X	AN	01/48	IF LIN04 = "UK" ENTER UPC OR EAN #. IF LIN04 = "IN" ENTER ACE SKU NUMBER. IF LIN04 = "VN" ENTER VENDORS ITEM NUMBER, (MANUFACTURES ITEM NO.).
LIN06	235	PRODUCT / SERVICE ID QUALIFIER	X	O	ID	02/02	"UK" = UPC CODE OR... "IN" = BUYERS ITEM NUMBER OR... "VN" = VENDORS ITEM NUMBER.
LIN07	234	PRODUCT / SERVICE ID	X	X	AN	01/48	IF LIN06 = "UK" ENTER UPC OR EAN #. IF LIN06 = "IN" ENTER ACE SKU NUMBER. IF LIN06 = "VN" ENTER VENDORS ITEM NUMBER, (MANUFACTURES ITEM NO.).

*NOTE: AT LEAST ONE SERVICE QUALIFIER AND SERVICE ID IS REQUIRED. LIN02 AND
           LIN03 MUST BE USED. THE MORE PRODUCT ID'S YOU CAN PROVIDE THE BETTER. IF
           YOU HAVE TWO, USE LIN02 THRU LIN05; IF YOU HAVE ALL THREE USE LIN02 THRU LIN07.
           IF YOU HAVE MORE THEN ONE, THEY CAN APPEAR IN ANY ORDER.
           "UP" PRODUCT ID IS CHANGED TO "UK" TO FACILITATE GLOBAL COMMERCE. THE 12-DIGIT UPC
           IS EXPANDED TO 14-DIGITS.

SN1 SEGMENT ITEM DETAIL (SHIPMENT) 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
SN102	382	NUMBER OF UNITS SHIPPED	M	M	R	01/10	# OF UNITS SHIPPED.
SN103	355	UNIT OF MEASURE	M	M	ID	02/02	FOLLOW STANDARD (*)
SN105	330	QUANTITY ORDERED	X	O	R	01/15	# OF UNITS ORDERED.
SN106	355	UNIT OF MEASURE	X	X	ID	02/02	FOLLOW STANDARD (*)

(*) NOTE: PLEASE RETURN THE SAME UNIT OF MEASURE CODE THAT YOU RECEIVED ON THE ACE PURCHASE ORDER.

PID SEGMENT PRODUCT/ITEM DESCRIPTION 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
PID01	349	ITEM DESCRIPTION TYPE	M	M	ID	01/01	"F" = FREE FORM.
PID05	352	DESCRIPTION	X	M	AN	01/80	ITEM DISCRIPTION.

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 LINE ITEMS IN THE TRANSACTION SET.

SE SEGMENT TRANSACTION SET TRAILER 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
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 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
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 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
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.