

**ACE HARDWARE  
850 PURCHASE ORDER  
ANSI X12 4010**

**ISA SEGMENT**

INTERCHANGE CONTROL HEADER OCCURS 1 TIME  
(X12 MANDATORY ENVELOPE)

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
ISA01	I01	AUTHORIZATION INFO QUALIFIER	M	ID	02/02	"00".
ISA02	I02	AUTHORIZATION INFORMATION	M	AN	10/10	STANDARD FOLLOWED.
ISA03	I03	SECURITY INFO QUALIFIER	M	ID	02/02	"00".
ISA04	I04	SECURITY INFORMATION	M	AN	10/10	STANDARD FOLLOWED.
ISA05	I05	INTERCHANGE SENDER ID QUALIFIER	M	ID	02/02	ACE AS SENDER: ACE EDI QUALIFIER WILL BE "01".
ISA06	I06	INTERCHANGE SENDER ID	M	ID	15/15	ACE AS SENDER: ACE EDI ID WILL BE "006928311".
ISA07	I05	INTERCHANGE RECEIVER ID QUALIFIER	M	ID	02/02	YOUR EDI ID QUALIFIER.
ISA08	I07	INTERCHANGE RECEIVER ID	M	ID	15/15	YOUR EDI ID (IE. DUNS #).
ISA09	I08	TRANSMISSION DATE	M	DT	06/06	YYMMDD.
ISA10	I09	TRANSMISSION TIME	M	TM	04/04	HHMM.
ISA11	I10	INTERCHANGE CONTROL ID	M	ID	01/01	"U".
ISA12	I11	INTERCHANGE VERSION NUMBER	M	ID	05/05	"00400".
ISA13	I12	INTERCHANGE CONTROL NUMBER	M	N0	09/09	9 DIGIT CONTROL NUMBER.
ISA14	I13	ACKNOWLEDGEMENT REQUEST FLAG	M	ID	01/01	"0".
ISA15	I14	TEST INDICATOR	M	ID	01/01	"T" = TEST. "P" = PRODUCTION.
ISA16	I15	SUBELEMENT SEPARATOR	M	AN	01/01	HEX VALUE = 6A ( ; ).

**GS SEGMENT**FUNCTIONAL GROUP HEADER  
(X12 MANDATORY ENVELOPE)

OCCURS 1 TIME

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
GS01	479	FUNCTIONAL ID	M	ID	02/02	"PO" FOR ANSI PURCHASE ORDER.
GS02	142	GROUP/APPLICATION SENDER ID	M	ID	02/15	ACE AS SENDER: ACE EDI ID = "006928311".
GS03	124	GROUP/APPLICATION RECEIVER ID	M	ID	02/15	YOUR EDI ID (USUALLY YOUR DUNS #).
GS04	29	APPLICATION GROUP DATE	M	DT	08/08	CCYYMMDD.
GS05	30	APPLICATION GROUP TIME	M	TM	04/08	HHMM OR HHMMSS OR HHMMSSDD.
GS06	28	APPLICATION GROUP CONTROL NUMB	M	N0	01/09	STANDARD FOLLOWED.
GS07	455	RESPONSIBLE AGENCY CODE	M	ID	01/02	"X" FOR ANSI X12.
GS08	480	VERSION/RELEASE INDUSTRY CODE	M	ID	01/12	"004010".

**ST SEGMENT**TRANSACTION SET HEADER  
(X12 MANDATORY ENVELOPE)

OCCURS 1 TIME

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
ST01	143	TRANSACTION SET ID	M	ID	03/03	"850" FOR X12 PURCHASE ORDER.
ST02	329	TRANSACTION SET CONTROL NO.	M	AN	04/09	STANDARD FOLLOWED.

**BEG SEGMENT**BEGINNING SEGMENT FOR  
PURCHASE ORDER

OCCURS 1 TIME

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
BEG01	353	TRANSACTION SET PURPOSE	M	ID	02/02	"00" = ORIGINAL.
BEG02	92	PURCHASE ORDER TYPE	M	ID	02/02	"CF" = CONFIRMATION. "NE" = NEW ORDER.
BEG03	324	PURCHASE ORDER NUMBER	M	AN	01/22	ACE HARDWARE PO #.
BEG04	328	RELEASE NUMBER	O	AN	01/30	ACE HARDWARE VENDOR NUMBER.
BEG05	373	PURCHASE ORDER DATE	M	DT	08/08	YYYYMMDD.

**REF SEGMENT**(CONTAINS NOTES AND SPECIAL  
INSTRUCTIONS)

MULTIPLE OCCURRENCE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
REF01	128	REFERENCE IDENTIFICATION QUALIFIER	M	ID	02/03	"ZZ" = MUTUALLY DEFINED.
*REF03	352	DESCRIPTION	X	AN	01/80	SAMPLE CONTENTS OF REF03(S): (1) CONTACT NAME: NAME TEXT. CASH TERMS: CASH TERMS TEXT. (2) FREIGHT TERMS: FREIGHT TERMS TEXT. DATING: DATING TEXT. (3) ROUTING: VENDOR ROUTING LINE 1 . (4) ROUTING: VENDOR ROUTING LINE 2. (5) COMMENT LINE 1. (6) COMMENT LINE 2. (7) COMMENT LINE 3. (8) COMMENT LINE 4. (9) COMMENT LINE 5. (10) COMMENT LINE 6.

\*NOTE: THE REF ELEMENTS MAY CONTAIN ASTERISKS AS PART OF THE TEXT.

**ITD SEGMENT**TERMS OF SALE/  
DEFERRED TERMS OF SALE

MULTIPLE OCCURRENCE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
ITD01	336	TERMS TYPE CODE	O	ID	02/02	"03" = FIXED DATE (TERMS). "06" = MIXED (INCLUDES LINE-LEVEL DATING). "07" = EXTENDED (DATING).
ITD02	333	TERMS BASIS DATE CODE	O	ID	01/02	"3" = INVOICE DATE.
ITD03	338	TERMS DISCOUNT %	O	R	01/06	DISCOUNT EXPRESSED AS AN EXPLICIT DECIMAL WHERE: .05=1/2%, 1.5=1 1/2%, 2=2%.
ITD05	351	TERMS DISC. DAYS DUE	X	N0	01/03	NUMBER OF DAYS IN DISCOUNT PERIOD, FROM BASIS DATE, WHEN DISCOUNT MAY BE TAKEN.
ITD06	446	TERMS NET DUE DATE	O	DT	08/08	FINAL DUE DATE OF INVOICE. YYYYMMDD.
ITD07	386	TERMS NET DAYS	O	N0	01/03	NUMBER OF DAYS IN TERMS PERIOD FROM BASIS DATE, AT THE END OF WHICH INVOICE MUST BE PAID.
ITD12	352	DESCRIPTION	O	AN	01/80	TEXT DESCRIPTION OF TERMS.
ITD13	765	DAY OF MONTH	X	N0	01/02	DAY OF MONTH ON WHICH INVOICE WILL BE PAID.

**DTM SEGMENT**

DATE/TIME REFERENCE

MULTIPLE OCCURRENCE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
DTM01	374	DATE/TIME QUALIFIER	M	ID	03/03	"010" = REQUESTED SHIP.
DTM02	373	DATE	X	DT	08/08	YYYYMMDD. (IF IMMEDIATE SHIPMENT THE SHIPDATE WILL BE THE SAME AS THE PO DATE).

**N1 SEGMENT**

NAME

N1 LOOP (LOOP CAN REPEAT)

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
N101	98	ENTITY ID CODE	M	ID	02/03	"BT" = BILL TO. "ST" = SHIP TO.
N102	93	NAME	X	AN	01/60	IF N101 = BT: "ACE HARDWARE CORP ". IF N101 = ST: "DEPT CODE ACE HDW".
N103	66	ID CODE QUALIFIER	X	ID	01/02	IF N101 = BT "1" WILL BE USED FOR DUNS #. IF N101 = ST "9" WILL BE USED FOR DUNS + 4 DIGIT RSC CODE.
N104	67	ID CODE	X	ID	02/80	IF N101 = BT "006928311" WILL BE USED. IF N101 = ST, THE LOCATION ID OF THE RSC (RETAIL SUPPORT CTR) WILL BE USED. THIS LOCATION ID CAN BE REFERENCED ON PAGE 3-2 OF THIS GUIDE. LOCATION ID = ACE DUNS # + THE 4 DIGIT RSC CODE.

**N3 SEGMENT**

ADDRESS INFORMATION

MULTIPLE OCCURRENCE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
N301	166	ADDRESS	M	AN	01/55	IF "BT" ACE CORPORATE ADDRESS. IF "ST" ACE WAREHOUSE ADDRESS.

**N4 SEGMENT**

GEOGRAPHIC LOCATION

OCCURS 1 TIME PER N1 LOOP

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
N401	19	CITY NAME	O	AN	02/30	IF "BT" THEN "OAK BROOK" WILL BE USED. IF "ST" CITY OF WAREHOUSE WILL BE USED.
N402	156	STATE/PROV. CODE	O	ID	02/02	IF "BT" THEN "IL" WILL BE USED. IF "ST" STATE OF WHSE WILL BE USED.
N403	116	POSTAL CODE	O	ID	03/15	IF "BT" THEN "605219989" WILL BE USED. IF "ST" THEN ZIP CODE OF WAREHOUSE.

**PO1 SEGMENT**PURCHASE ORDER BASELINE  
ITEM DATA

PO1 LOOP (LOOP CAN REPEAT)

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
PO101	350	ASSIGNED IDENTIFIER	O	AN	01/20	PURCHASE ORDER LINE #.
PO102	330	QUANTITY ORDERED	X	R	01/15	STANDARD FOLLOWED.
PO103	355	UNIT OF MEASURE CODE	O	ID	02/02	STANDARD FOLLOWED.
PO104	212	UNIT PRICE	X	R	01/17	STANDARD FOLLOWED.
PO105	639	BASIS UNIT PRICE CODE	O	ID	02/02	"PE" = PRICE PER EACH. "PR" = PROMOTIONAL PRICE.
PO106	235	PRODUCT/SERVICE ID QUALIFIER	X	ID	02/02	"PI" = PURCHASERS ITEM CODE.
PO107	234	PRODUCT/SERVICE ID	X	AN	01/48	ACE HARDWARE STOCK # OR BULLETIN #.
PO108	235	PRODUCT/SERVICE ID QUALIFIER	X	ID	02/02	"VN" = VENDORS ITEM #.
PO109	234	PRODUCT /SERVICE ID	X	AN	01/48	MANUFACTURERS PART #.
*PO110	235	PRODUCT/SERVICE ID QUALIFIER	X	ID	02/02	"UK".
PO111	234	PRODUCT/SERVICE ID	X	AN	01/48	UPC OR EAN #.

\*NOTE: THE "UP" PRODUCT/SERVICE ID QUALIFIER IS CHANGED TO "UK" TO FACILITATE GLOBAL COMMERCE.  
THE 12-DIGIT UPC IS EXPANDING TO 14-DIGIT.

**PID SEGMENT**      PRODUCT/ITEM DESCRIPTION      MULTIPLE OCCURRENCE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
PID01	349	ITEM DESCRIPTION TYPE	M	ID	01/01	"F".
PID05	352	DESCRIPTION	X	AN	01/80	PRODUCT DESCRIPTION &/OR PO LINE ITEM COMMENT TEXT.

**ITD SEGMENT**      TERMS OF SALE/  
DEFERRED TERMS OF SALE      MULTIPLE OCCURRENCE

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
ITD01	336	TERMS TYPE CODE	O	ID	02/02	"07"-EXTENDED (dating).
ITD02	333	TERMS BASIS DATE CODE	O	ID	01/02	"3"-INVOICE DATE.
ITD06	446	TERMS NET DUE DATE	O	DT	08/08	FINAL DUE DATE OF INVOICE, YYYYMMDD.

**CTT SEGMENT**      TRANSACTION TOTALS      X12 REQUIRED SEGMENT OCCURS 1 TIME

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
CTT01	354	NUMBER OF LINE ITEMS	M	N0	01/06	TOTAL NUMBER OF PO LINES.
CTT03	81	WEIGHT	X	R	01/10	TOTAL WEIGHT OF PURCHASE ORDER.
CTT04	355	UNIT OF MEASURE CODE	X	ID	02/02	"LB" - POUNDS.
CTT07	352	DESCRIPTION	O	AN	01/80	TOTAL DOLLAR AMOUNT OF PURCHASE ORDER.

**SE SEGMENT** TRANSACTION SET TRAILER OCCURS 1 TIME  
(X12 MANDATORY ENVELOPE)

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
SE01	96	NUMBER OF INCLUDED SEGMENTS	M	N0	01/06	STANDARD FOLLOWED.
SE02	329	TRANSACTION SET CONTROL NUMBER	M	AN	04/09	STANDARD FOLLOWED.

**GE SEGMENT** FUNCTIONAL GROUP TRAILER OCCURS 1 TIME  
(X12 MANDATORY ENVELOPE)

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENT
GE01	97	NUMBER OF INCLUDED TRANSACTIONS	M	N0	01/06	STANDARD FOLLOWED.
GE02	28	GROUP CONTROL NUMBER	M	N0	01/09	STANDARD FOLLOWED.

**IEA SEGMENT** INTERCHANGE CONTROL TRAILER OCCURS 1 TIME  
(X12 MANDATORY ENVELOPE)

DATA ELEMENT	ELEMENT NUMBER	DATA ELEMENT NAME	ANSI REQ	DATA TYPE	ELEMENT LENGTH	ACE SUPPLIED FIELD CONTENTS
IEA01	I16	NUMBER OF INCLUDED GROUPS	M	N0	01/05	STANDARD FOLLOWED.
IEA02	I12	INTERCHANGE CONTROL NUMBER	M	N0	09/09	STANDARD FOLLOWED.