

820 - Remittance Advice
Caterpillar Inc.

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PREFACE

This writing is intended to give details on how to process an electronic Remittance Advice Transaction Set 820 sent by Caterpillar. This document shows which supplier invoices will get paid at this time.

Caterpillar is committed to supporting and using the AIAG Implementation Guidelines and ASC X12 national standards.

Any questions or concerns regarding the Caterpillar EDI Remittance Advice (AIAG Transaction Set 820) from Accounts Payable may be directed to:

Caterpillar Inc.
Accounts Payable Support
Attn: Joe Ringenberg - LD251
330 S.W. Adams Street
Peoria, IL 61602

(309) 675-1324

Caterpillar Inc.
Accounts Payable Support
Attn: Gary Campbell - LD251
330 S.W. Adams Street
Peoria, IL 61602

(309) 675-1577

Any questions or concerns regarding the Caterpillar EDI program and/or Caterpillar's EDI communication network may be directed to:

Caterpillar Inc.
EDI Support Services - AD3321
600 W. Washington Street
East Peoria, IL 61630

(800) 435-7334 Ext. 3
(309) 675-0834

TRANSACTION SEQUENCE WITH LEVELS

Shown below are the segments used by the Remittance Advice transaction set (820).

LEVEL	SEGMENT TYPE	DATA CONTAINED IN SEGMENT
	ISA	INTERCHANGE CONTROL HEADER SEGMENT
	GS	FUNCTIONAL GROUP HEADER SEGMENT
	ST	TRANSACTION SET HEADER SEGMENT

	BPS	BEGINNING SEGMENT
	CUR	CURRENCY SEGMENT
	REF	PAY SUPPLIER CODE
HEADER	DTM	CHECK DATE
	N1	PAYEE NAME
	N1	PAYER NAME
	N4	PAYER ADDRESS

DETAIL	LS	LOOP IDENTIFIER START
	N1	PAYEE SUPPLIER CODE
	--> RMT	REMITTANCE AMOUNT
regular	REF	CATERPILLAR INVOICE NUMBER
	REF	CATERPILLAR PURCHASE ORDER NUMBER
	-- REF	SUPPLIER SHIPMENT IDENTIFICATION NUMBER
	--> RMT	REMITTANCE AMOUNT -- CONSOLIDATED
	REF	CATERPILLAR INVOICE NUMBER
consol- idated	REF	CATERPILLAR PURCHASE ORDER NUMBER
	RMT	REMITTANCE AMOUNT
	-- REF	SUPPLIER SHIPMENT IDENTIFICATION NUMBER
	LE	LOOP IDENTIFIER END

SUMMARY	SE	TRANSACTION SET TRAILER SEGMENT
	GE	FUNCTIONAL GROUP TRAILER SEGMENT
	IEA	INTERCHANGE CONTROL TRAILER SEGMENT

ASC X12 REQUIRED CONTROL DATA

SEGMENT SEQUENCE

1. 'ISA' WILL BE THE FIRST SEGMENT OR PRECEDED BY 'IEA'.
2. 'IEA' WILL BE THE LAST SEGMENT.
3. 'GS' WILL BE PRECEDED BY 'ISA' OR 'GE'.
4. 'ST' WILL BE PRECEDED BY 'GS' OR 'SE'.
5. 'GE' WILL BE PRECEDED BY 'SE'.
6. 'IEA' WILL BE PRECEDED BY 'GE'.
7. THE INTERCHANGE CONTROL NUMBER IN 'IEA' (ELEMENT IEA02) WILL BE THE SAME AS THE PREVIOUS 'ISA' (ELEMENT ISA13).
8. THE DATA INTERCHANGE CONTROL NUMBER IN 'GE' (ELEMENT GE02) WILL BE THE SAME AS THE PREVIOUS 'GS' (ELEMENT GS06).
9. THE TRANSACTION SET CONTROL NUMBER IN 'SE' (ELEMENT SE02) WILL BE THE SAME AS THE PREVIOUS 'ST' (ELEMENT ST02).

COUNT BALANCING

1. THE 'NUMBER OF INCLUDED FUNCTIONAL GROUPS' IN 'IEA' (ELEMENT IEA01) WILL EQUAL THE NUMBER OF 'GS' SEGMENTS SINCE THE PREVIOUS 'ISA'.
2. THE 'NUMBER OF INCLUDED TRANSACTION SETS' IN 'GE' (ELEMENT GE01) WILL EQUAL THE NUMBER OF 'ST' SEGMENTS SINCE THE PREVIOUS 'GS'.
3. THE 'NUMBER OF INCLUDED SEGMENTS' IN 'SE' (ELEMENT SE01) WILL EQUAL THE NUMBER OF SEGMENTS READ SINCE THE PREVIOUS 'ST'. THE 'ST' AND 'SE' SEGMENTS ARE SEGMENTS INCLUDED IN THIS COUNT.

SEGMENT/ELEMENT DEFINITION EXPLANATION

Shown below is a segment sample from the Remittance Advice transaction set. The fields are numbered with an explanation following the screen display. This should assist you in reading or programming the incoming 820 transaction.

(1)
BEGINNING SEGMENT (HEADER DATA)

(2)
BPS*PBC*330.25*I@
A B C D

(3) CONTAINS DESCRIPTIVE DATA IDENTIFYING THE REMITTANCE ADVICE. (THERE WILL BE ONE "BPS" SEGMENT PER REMITTANCE ADVICE.)				
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION	
A. BPS	(AN-3)	REQUIRED	BEGINNING SEGMENT FOR REMIITANCE ADVICE	
(4) (5)	(6)	(7)	(8)	
B. BPS01 591	(ID-3)	REQUIRED	PAYMENT METHOD CODE	
		(9)	PBC = Pay by Check	
(10) INDICATES THE BEGINNING OF A REMITTANCE ADVICE TRANSACTION SET.				

- (1) ASC X12 segment name.
- (2) Layout of the segment elements.
- (3) Description of purpose and use of the segment.
- (4) ASC X12 data element reference number.
- (5) ASC X12 data dictionary reference number.
- (6) Type and size of element (size may be a range).
 - ID = identification data.
 - AN = alphanumeric data.
 - NUM = numeric data.
 - DATE = date in YYYYMMDD format.
 - TIME = time in HHMM format.
- (7) Indication if segment element is required or optional.
- (8) ASC X12 data element title.
- (9) Explanation of what the element contains.
- (10) Notes pertaining to use of the segment.

We have indicated the element lengths (6) as used by Caterpillar. You

may also wish to refer to the ASC X12 and AIAG standards for further clarification.

The ASC X12 data dictionary reference number can be used to access the definitions and/or allowable values from the ASC X12 data dictionary if additional definitions are required.

The '@' at the end of each segment represents the segment terminator. This segment terminator is defined in the 'ISA' segment. It need not be, and probably will not be, a '@'. The '@' is only used so the end of a segment can be visualized.

The '*' between each element represents the element separator. The element separator is defined in the 'ISA' segment. As with the segment terminator, any character may be used as a separator unless it is also contained in the data being sent.

ISA-INTERCHANGE CONTROL HEADER SEGMENT

```

ISA*00*          *00*          *09*00507047919    *ZZ*X0000X0    *
A BC D          E F          G H          I J
920301*1020*U*00200*000000001*0*P*\@
K          L      M N      O          P Q RS
    
```

THIS IS THE START OF THE INTERCHANGE ENVELOPE. IT IDENTIFIES THE SOURCE (CATERPILLAR) AND RECEIVER (SUPPLIER) OF THE DATA. IT IDENTIFIES SEPARATORS AND TERMINATORS TO BE USED IN THE TRANSMISSION. THIS IS DATA REQUIRED BY ASC X12 TO CONTROL THE THE INTERCHANGE OF DATA BETWEEN THE SENDER AND RECEIVER. ALL DATA IS IN A FIXED POSITION.			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. ISA	(AN-3) REQUIRED		DATA SEGMENT IDENTIFIER. ISA = INTERCHANGE CONTROL HEADER.
B. ISA	(AN-1) REQUIRED		DATA ELEMENT SEPARATOR. * = FOR THESE CATERPILLAR SEGMENTS.
C. ISA01 I01	(ID-2) REQUIRED		AUTH. INFO QUALIFIER. ALWAYS "00".
D. ISA02 I02	(AN-10) REQUIRED		AUTH. INFORMATION. ALWAYS SPACES.
E. ISA03 I03	(ID-2) REQUIRED		SECURITY INFO QUALIFIER. ALWAYS "00".
F. ISA04 I04	(AN-10) REQUIRED		SECURITY INFORMATION. ALWAYS SPACES.
G. ISA05 I05	(ID-2) REQUIRED		SENDER ID QUALIFIER. "09" = DUNS NUMBER plus SUFFIX.
H. ISA06 I06	(ID-15) REQUIRED		SENDER ID. "005070479" = CATERPILLAR DUNS CODE PLUS. 19 = CATERPILLAR INVOICING
I. ISA07 I07	(ID-2) REQUIRED		RECEIVER ID QUALIFIER. "ZZ" = MUTUALLY DEFINED.
J. ISA08 I07	(ID-15) REQUIRED		RECEIVER ID. CATERPILLAR ASSIGNED SUPPLIER CODE.
K. ISA09 I08	(DATE-6) REQUIRED		SUBMIT DATE. YYMMDD FORMAT.
L. ISA10 I09	(TIME-4) REQUIRED		SUBMIT TIME. HHMM FORMAT.
M. ISA11 I10	(ID-1) REQUIRED		INTERCHANGE STANDARD. "U" FOR ASC X12.
N. ISA12 I11	(ID-5) REQUIRED		INTERCHANGE VERSION. ALWAYS "00200".
O. ISA13 I12	(NUM-9) REQUIRED		INTERCHANGE CONTROL NUMBER. UNIQUE NUMBER ASSIGNED TO CONTROL TRANSMISSION, SAME AS IN THE FOLLOWING "IEA"

P.	ISA14	I13	(ID-1)	REQUIRED	SEGMENT (IEA02). ACKNOWLEDGEMENT REQUESTED. ALWAYS "0" = NO ACKNOWLEDGE- MENT REQUESTED.
Q.	ISA15	I14	(ID-1)	REQUIRED	INDICATOR. ALWAYS "P" = PRODUCTION.
R.	ISA16	I15	(AN-1)	REQUIRED	SUBELEMENT SEPARATOR. ALWAYS "\".
S.	ISA17		(AN-1)	REQUIRED	SEGMENT TERMINATOR. ALWAYS HEX '0D'.

GS -FUNCTIONAL GROUP HEADER SEGMENT

GS*RA*00507047919*X0000X0*950101*1418*000000004*X*002001@
 A B C D E F G H I

				IDENTIFIES THE FUNCTIONAL GROUP OF THE TRANSACTION SET BEING TRANSMITTED AS WELL AS ADDITIONAL INTERCHANGE CONTROL DATA USED IN THE TRANSMISSION. (ONE "GS" SEGMENT PER "ISA")
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS			DESCRIPTION
A. GS	(AN-2) REQUIRED			DATA SEGMENT IDENTIFIER.
B. GS01 479	(ID-2) REQUIRED			FUNCTIONAL ID. RA = REMITTANCE ADVICE.
C. GS02 142	(AN-12) REQUIRED			APPLICATION SENDER'S CODE. CATERPILLAR SENDING FACILITY CODE.
D. GS03 124	(AN-12) REQUIRED			APPLICATION RECEIVER'S CODE. CATERPILLAR ASSIGNED SUPPLIER CODE.
E. GS04 373	(DATE-6) REQUIRED			DATA INTERCHANGE DATE. TRANSMISSION DATE IN YYMMDD FORMAT.
F. GS05 337	(TIME-4) REQUIRED			DATA INTERCHANGE TIME. TRANSMISSION TIME IN HHMM FORMAT.
G. GS06 28	(NUM-9) REQUIRED			DATA INTERCHANGE CONTROL NUMBER ASSIGNED TO CONTROL TRANSMISSION. SAME AS IN THE FOLLOWING "GE" SEGMENT (GE02).
H. GS07 455	(ID-2) REQUIRED			RESPONSIBLE AGENCY CODE. "X" = ASC X12 STANDARDS.
I. GS08 480	(AN-6) REQUIRED			VERSION "002001"

ST -TRANSACTION SET HEADER SEGMENT

ST*820*0001@

A B C

IDENTIFIES START OF A TRANSACTION SET FOR AN REMITTANCE ADVICE.			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. ST	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. ST01 143	(ID-3)	REQUIRED	TRANSACTION SET IDENTIFIER. 820 = REMITTANCE ADVICE.
C. ST02 329	(AN-9)	REQUIRED	TRANSACTION SET CONTROL NUMBER. INCREMENTED BY 1 WITH EACH REMITTANCE ADVICE WITHIN THE SUPPLIER TRANSMISSION. SAME AS IN THE FOLLOWING SE SEGMENT (SE02).

BPS-BEGINNING SEGMENT (HEADER DATA)

BPS*PBC*23649.36*I@
 A B C D

CONTAINS DESCRIPTIVE DATA IDENTIFYING THE REMITTANCE ADVICE. (THERE WILL BE ONE "BPS" SEGMENT PER REMITTANCE ADVICE.)			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. BPS	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. BPS01 591	(ID-3)	REQUIRED	TRANSACTION SET PURPOSE. PBC = PAY BY CHECK WRT = WIRE TRANSFER
C. BPS02 590	(R-15)	REQUIRED	MONETARY AMOUNT. TOTAL AMOUNT OF ALL THE INVOICES PAID IN THIS TRANSACTION, IE. CHECK AMOUNT.
D. BPS03 305	(ID-1)	REQUIRED	TRANSACTION HANDLING CODE. I = REMITTANCE INFORMATION ONLY

CUR-CURRENCY INFORMATION

CUR*PE*USD@

A B C

IDENTIFIES THE CURRENCY BEING USED ON THE CHECK ISSUED			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. CUR	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER
B. CUR01 98	(ID-2)	REQUIRED	ORGANIZATION IDENTIFIER (PE = PAYEE)
C. CUR02 100	(ID-3)	REQUIRED	CURRENCY CODE (ISO) BEF - BELGIAN FRANC DEM - GERMAN MARK FRF - FRENCH FRANC GBP - POUND STERLING JPY - JAPANESE YEN NLG - NETHERLANDS GUILDER USD - US DOLLAR

DTM-DATE/TIME REFERENCE SEGMENT

DTM*020*950501@

A B C

IDENTIFIES THE DATE THE CHECK IS PRINTED			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. DTM	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER
B. DTM01 374	(ID-3)	REQUIRED	DATE/TIME QUALIFIER 020 = CHECK DATE
C. DTM02 373	(DATE-6)	REQUIRED	DATE (YYMMDD FORMAT)

N1 -ORGANIZATION NAME SEGMENT

N1*PE*ABC CORPORATION@
 A B C
 N1*PR*CATERPILLAR INC.*01*005070479@
 A B C D E

IDENTIFIES PARTY BY TYPE OF ORGANIZATION, CODE QUALIFIER, AND CODE.				
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS			DESCRIPTION
A. N1	(AN-3)	REQUIRED		DATA SEGMENT IDENTIFIER.
B. N101 98	(ID-2)	REQUIRED		ENTITY IDENTIFIER CODE. PE = PAYEE NAME AND/OR SUPPLIER CODE PR = PAYER NAME
C. N102 93	(AN-35)	OPTIONAL		SENDER'S NAME.
D. N103 66	(ID-2)	REQUIRED		IDENTIFICATION CODE QUALIFIER. 01 = DUNS NUMBER 92 = CATERPILLAR DEFINED.
E. N104 67	(AN-17)	REQUIRED		IDENTIFICATION CODE. IF N101 = PE, CATERPILLAR DEFINED SUPPLIER CODE. IF N101 = PR, CATERPILLAR DUNS NUMBER.

N4 -CITY / STATE SEGMENT

N4*EAST PEORIA*IL*61630@

A B C D

SEGMENT CONTAINS CITY, STATE AND COUNTRY INFORMATION FOR THE ORGANIZATION IDENTIFIED IN THE PREVIOUS N1 SEGMENT				
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION	
A. N4	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER	
B. N401	19	(AN-19)	REQUIRED	CITY NAME CITY OF CHECK ISSUE
C. N402	156	(AN-2)	REQUIRED	STATE/PROVIDENCE CODE
D. N403	116	(AN-9)	OPTIONAL	POSTAL CODE

LS -LOOP HEADER

LS*1@

A B

IDENTIFIES THAT THE NEXT SEGMENT BEGINS A LOOP			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. LS	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. LS01 447	(ID-4)	REQUIRED	LOOP ID CODE. SAME CODE AS IN THE FOLLOWING "LE" SEGMENT (LE01) .

N1 -ORGANIZATION NAME SEGMENT

N1*PE**92*X0000X0@
 A B D E

IDENTIFIES PARTY BY TYPE OF ORGANIZATION, CODE QUALIFIER, AND CODE.			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. N1	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. N101 98	(ID-2)	REQUIRED	ENTITY IDENTIFIER CODE. PE = PAYEE NAME AND/OR SUPPLIER CODE
C. N102 93	(AN-35)	OPTIONAL	SENDER'S NAME.
D. N103 66	(ID-2)	REQUIRED	IDENTIFICATION CODE QUALIFIER. 92 = CATERPILLAR DEFINED.
E. N104 67	(ID-7)	REQUIRED	IDENTIFICATION CODE. IF N101 = PE, CATERPILLAR DEFINED SUPPLIER CODE.

RMT-REMITTANCE ADVICE

RMT*IV*567WFR298*4523.89*563.40**533.16*30.24*300.23*ZZ*INVOICE@
 A B C D E F G H I J
 RMT*IV*CN58*4523.89*563.40**533.16*30.24*300.23*ZZ*CONSOLIDATED INVOICE@
 A B C D E F G H I J

IDENTIFIES THE SUPPLIER INVOICE NUMBER, TOTAL INVOICE AMOUNT, SUPPLIER INVOICE AMOUNT AND DISCOUNT AMOUNT			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. RMT	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. RMT01 128	(ID-2)	REQUIRED	REFERENCE NUMBER QUALIFIER. IV = SUPPLIER INVOICE NUMBER
C. RMT02 127	(AN-30)	REQUIRED	REFERENCE NUMBER. SUPPLIER INVOICE NUMBER IF RMT10 = "CONSOLIDATED INVOICE" THEN RMT02 = INVOICE NUMBER ASSIGNED BY CATERPILLAR
D. RMT03 782	(R-15)	OPTIONAL	MONETARY AMOUNT. TOTAL OF ALL INVOICE AMOUNTS IN THIS TRANSACTION
E. RMT04 777	(R-15)	OPTIONAL	TOTAL INVOICE AMOUNT. SUPPLIER INVOICE AMOUNT.
F. RMT06 779	(R-15)	OPTIONAL	DISCOUNTED AMOUNT DUE. SUPPLIER INVOICE AMOUNT MINUS DISCOUNT TAKEN
G. RMT07 780	(R-15)	OPTIONAL	DISCOUNT AMOUNT. DISCOUNT TAKEN ON THIS INVOICE
H. RMT08 782	(R-15)	OPTIONAL	MONETARY AMOUNT. TOTAL OF ALL DISCOUNTS TAKEN IN THIS TRANSACTION
I. RMT09 426	(ID-2)	OPTIONAL	ADJUSTMENT REASON CODE. ZZ
J. RMT10 352	(AN-80)	OPTIONAL	DESCRIPTION. CHARGE BACK CONSOLIDATED INVOICE CORRECTION DEDUCTION INVOICE PAY BACK

REF-REFERENCE NUMBERS

REF*CR*19950023621@

A B C

REF*PO*AAB 23456@

A B C

SPECIFIES IDENTIFYING NUMBERS RELATED TO REMITTANCE ADVICE.			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. REF	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. REF01 128	(ID-2)	REQUIRED	REFERENCE NUMBER QUALIFIER.
			CR = CATERPILLAR INVOICE NUMBER PO = CATERPILLAR PURCHASE ORDER NUMBER
C. REF02 127	(AN-30)	REQUIRED	REFERENCE NUMBER.

RMT-REMITTANCE ADVICE

RMT*AI*34G6721C**3049.34@

A B C D

IDENTIFIES THE SUPPLIER INVOICE NUMBER AND SUPPLIER INVOICE AMOUNT FOR CONSOLIDATED SHIPMENTS			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. RMT	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. RMT01 128	(ID-2)	REQUIRED	REFERENCE NUMBER QUALIFIER AI = INVOICES ASSOCIATED WITH PREVIOUSLY CONSOLIDATED "RMT" SEGMENT (IF RMT*AI IS PRESENT THEN PREVIOUS RMT*IV IS A "CONSOLIDATED INVOICE" NUMBER.)
C. RMT02 127	(AN-30)	REQUIRED	REFERENCE NUMBER. SUPPLIER INVOICE NUMBER
D. RMT04 777	(R-15)	OPTIONAL	TOTAL INVOICE AMOUNT. SUPPLIER INVOICE AMOUNT

REF-REFERENCE NUMBERS

REF*SI*BR678V2@

A B C

SPECIFIES IDENTIFYING NUMBERS RELATED TO REMITTANCE ADVICE.			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. REF	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. REF01 128	(ID-2)	REQUIRED	REFERENCE NUMBER QUALIFIER. SI = SUPPLIER IDENTIFICATION NUMBER (SID)
C. REF02 127	(AN-30)	REQUIRED	REFERENCE NUMBER.

LE -LOOP TRAILER

LE*1@

A B

IDENTIFIES THAT THE NEXT SEGMENT ENDS A LOOP			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. LE	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. LE01 447	(ID-4)	REQUIRED	LOOP ID CODE. SAME CODE AS USED IN THE PREVIOUS "LS" SEGMENT (LS01).

REF-REFERENCE NUMBERS

REF*PQ*X0000X@

A B C

SPECIFIES IDENTIFYING NUMBERS RELATED TO REMITTANCE ADVICE.			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. REF	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. REF01 128	(ID-2)	REQUIRED	REFERENCE NUMBER QUALIFIER. PQ = CATERPILLAR SUPPLIER CODE
C. REF02 127	(AN-30)	REQUIRED	REFERENCE NUMBER.

SE -TRANSACTION SET TRAILER

SE*11*0001@

A B C

IDENTIFIES THE END OF A TRANSACTION SET. THIS SEGMENT CONTAINS THE SEGMENT COUNTS AND INTERCHANGE CONTROL NUMBER USED TO INSURE ALL SEGMENTS HAVE BEEN CORRECTLY PROCESSED. (ONE "SE" SEGMENT PER "ST" SEGMENT PROCESSED)			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. SE	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. SE01 96	(NUM-6)	REQUIRED	NUMBER OF INCLUDED SEGMENTS. ACCUMULATED TOTAL NUMBER OF SEGMENTS FROM LAST "ST" SEGMENT, INCLUDING THE "ST" AND "SE" SEGMENTS.
C. SE02 329	(AN-9)	REQUIRED	TRANSACTION SET CONTROL NUMBER. SAME CONTROL NUMBER AS THE ONE USED IN THE PREVIOUS "ST" SEGMENT (ST02).

GE -FUNCTIONAL GROUP TRAILER SEGMENT

GE*1*000000004@

A B C

IDENTIFIES THE END OF A FUNCTIONAL GROUP. THIS SEGMENT CONTAINS THE COUNT OF INCLUDED TRANSACTION SETS AND THE DATA INTERCHANGE CONTROL NUMBER USED TO ENSURE ALL FUNCTIONAL GROUPS HAVE BEEN CORRECTLY PROCESSED. (ONE "GE" SEGMENT PER "GS" SEGMENT PROCESSED.)				
ASC X12 REFERENCE		ELEMENT CHARACTERISTICS		DESCRIPTION
A. GE		(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. GE01	97	(NUM-6)	REQUIRED	NUMBER OF INCLUDED TRANSACTIONS. ACCUMULATED TOTAL NUMBER OF "ST" SEGMENTS INCLUDED IN THIS FUNCTIONAL GROUP.
C. GE02	28	(NUM-9)	REQUIRED	INTERCHANGE CONTROL NUMBER. SAME CONTROL NUMBER USED IN THE PREVIOUS "GS" SEGMENT (GS06).

IEA-INTERCHANGE CONTROL TRAILER SEGMENT

IEA*1*000000001@

A B C

IDENTIFIES THE END OF THE INTERCHANGE FOR A GIVEN SENDING FACILITY. THIS SEGMENT CONTAINS THE COUNT OF INCLUDED FUNCTIONAL GROUPS AND THE INTERCHANGE CONTROL NUMBER USED TO ENSURE THE TOTAL INTERCHANGE HAS BEEN CORRECTLY PROCESSED (ONE "IEA" SEGMENT PER "ISA" SEGMENT PROCESSED.)			
ASC X12 REFERENCE	ELEMENT CHARACTERISTICS		DESCRIPTION
A. IEA	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER.
B. IEA01 I16	(NUM-6)	REQUIRED	NUMBER OF INCLUDED GROUPS. ACCUMULATED TOTAL NUMBER OF "GS" SEGMENTS INCLUDED IN THIS INTERCHANGE (SINCE THE LAST "ISA" SEGMENT).
C. IEA02 I12	(NUM-9)	REQUIRED	INTERCHANGE CONTROL NUMBER. SAME CONTROL NUMBER AS USED IN THE PREVIOUS "ISA" SEGMENT (ISA13).

TRANSACTION SAMPLE DATA

SAMPLE FOR 820: REGULAR ONLY

SEGMENT	DESCRIPTION
ISA*00*	*00* *09*00507047919 *ZZ*X0000X0 *
950501*1102*U*00200*000045301*0*P*\@	
GS*RA*00507047919*X0000X0*950501*1102*000000004*X*002001@	
ST*820*0001@	
HEADER	
BPS*PBC*3180.00*I@	PAY BY CHECK = \$3180.00 (RMT03 - RMT08)
CUR*PE*USD@	CURRENCY IS DOLLARS
REF*PQ*X0000X0@	PAYEE SUPPLIER CODE
DTM*020*950501@	CHECK ISUUE DATE
N1*PE*ABC CORPORATION@	PAYEE SUPPLIER NAME
N1*PR*CATERPILLAR, INC.*01*005070479@	PAYER NAME & DUNS NUMBER
N4*EAST PEORIA*IL*61630@	PAYER ADDRESS
DETAIL	
LS*1@	LOOP START
N1*PE**92*X0000X0@	PAYEE SUPPLIER CODE
RMT*IV*8954ER67*3200.00*1500.00**1490.00*10.00*20.00*ZZ*INVOICE@	
01 02 03 04 06 07 08 09 10	
	01 = IV = INVOICE
	02 = SUPPLIER INVOICE
	03 = TOTAL OF ALL INVOICES IN THIS TRANSACTION
	04 = SUPPLIER INVOICE AMOUNT
	06 = DISCOUNTED SUPPLIER INVOICE AMOUNT
	07 = DISCOUNT AMOUNT TAKEN
	08 = TOTAL OF ALL DISCOUNTS TAKEN IN THIS TRANSACTION
	09 = IDENTIFIER FOR 10
	10 = TYPE OF TRANSACTION: REGULAR INVOICE
REF*CR*19950023452@	CATERPILLAR INVOICE NUMBER
REF*PO*AAB 12345@	CATERPILLAR PURCHASE ORDER NUMBER
REF*SI*SH008954@	SUPPLIER SHIPMENT IDENTIFICATION NUMBER (SID)
RMT*IV*8957ER67*3200.00*1700.00**1690.00*10.00*20.00*ZZ*INVOICE@	
REF*CR*19950245632@	
REF*PO*DAN 14525@	
REF*SI*SH008957@	
LE*1@	LOOP END
SE*20*0001@	
GE*1*000000004@	
IEA*1*000045301@	

SAMPLE FOR 820: CONSOLIDATED AND REGULAR

SEGMENT	DESCRIPTION
ISA*00* *00* *09*00507047919 *ZZ*X0000X0 *	
950501*1102*U*00200*000045301*0*P*\@	
GS*RA*00507047919*X0000X0*950501*1102*000000004*X*002001@	
ST*820*0001@	
	HEADER
BPS*PBC*3170.00*I@	PAY BY CHECK = \$3170.00 (RMT03 - RMT08)
CUR*PE*USD@	CURRENCY IS DOLLARS
REF*PQ*X0000X0@	PAYEE SUPPLIER CODE
DTM*020*950501@	CHECK ISUUE DATE
N1*PE*ABC CORPORATION@	PAYEE SUPPLIER NAME
N1*PR*CATERPILLAR, INC.*01*005070479@	PAYER NAME & DUNS NUMBER
N4*EAST PEORIA*IL*61630@	PAYER ADDRESS
	DETAIL
LS*1@	LOOP START
N1*PE**92*X0000X0@	PAYEE SUPPLIER CODE
RMT*IV*CN000234*3190.00*1500.00**1490.00*10.00*20.00*ZZ*CONSOLIDATED INVOICE@	
01 02 03 04 06 07 08 09 10	
	01 = IV = INVOICE
	02 = CONSOLIDATED INVOICE NUMBER GENERATED BY CATERPILLAR
	03 = TOTAL OF ALL INVOICES IN THIS TRANSACTION
	04 = SUPPLIER INVOICE AMOUNT
	06 = DISCOUNTED SUPPLIER INVOICE AMOUNT
	07 = DISCOUNT AMOUNT TAKEN
	08 = TOTAL OF ALL DISCOUNTS TAKEN IN THIS TRANSACTION
	09 = IDENTIFIER FOR 10
	10 = TYPE OF TRANSACTION: CONSOLIDATED INVOICE
REF*CR*19950034512@	CATERPILLAR INVOICE NUMBER
REF*PO*AAB 12345@	CATERPILLAR PURCHASE ORDER NUMBER
RMT*AI*8954ER67**700.00@	
01 02 04	
	01 = AI = INVOICES INCLUDED IN CONSOLIDATION
	02 = SUPPLIER INVOICE NUMBER
	04 = SUPPLIER INVOICE AMOUNT
REF*SI*SH008954@	SUPPLIER SHIPMENT IDENTIFICATION NUMBER (SID)
RMT*AI*8958ER67**800.00@	
REF*SI*SH008958@	
RMT*IV*8957ER67*3190.00*1700.00**1690.00*10.00*20.00*ZZ*INVOICE@	
REF*CR*19950245632@	
REF*PO*DAN 14525@	
REF*SI*SH008957@	
RMT*IV*8957ER67*3190.00*-10.00**10.00**20.00*ZZ*CHARGE BACK@	

REF*CR*19950025632@
REF*PO*DAN 14525@
REF*SI*SH008957@
LE*1@
SE*28*0001@
GE*1*000000004@
IEA*1*000045301@

LOOP END