

TRUCK MANUFACTURING

Process Information -- EDI-866 BUSINESS PROCESS GUIDE

Version 004010

August 21, 2000

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1. Transaction Definition

Type: Regenerative with each message

Frequency: Variable -- Parameter Controlled

EDI Transaction: ANSI-X12 / AIAG-866

Application:

The **Process Information -- EDI-866** Transaction Set (Version 004010) will be used to identify unique process information related to a specific job. Process Information is defined as Job/Part specific information required to complete an assembly. For instance, Wheel Base length would be needed to determine the length of wiring for a brake harness. This process information may be provided at a Job and or Part Number Level depending on the requirements for the specific assembly. This transaction will parallel the daily Production Sequence 866. There will be no jobs on this transaction set that will not appear on the daily Production Sequence 866. Not all Jobs in a Production 866 may require process information and thus would not be in the process 866. The use of this selection set in conjunction with the daily Production Sequence 866 will provide all of the necessary part numbers and variable information needed to complete the assembly of the module.

2. Business Procedure Overview

The **Process Information -- EDI-866** will be used by **INTERNATIONAL** to identify process requirements necessary to complete the assembly of a module for a specific Job for which the part contents has been stated within the Daily Production 866. Process information is not in the form of a part number but rather variable information related to either the specific Job or specific parts within that Job. Such information would be Wheel Base, Tire Pressure, Location of Spare, Paint Color, etc.

2.1. Frequency and Responsiveness

The **Process Information -- EDI-866** will be transmitted to the supplier in nightly batch. The supplier is expected to retrieve the transaction set within 1 business day and to react accordingly with regards to the any changes reflected from the prior transaction set. The transaction set will be made available on a daily basis in the Nightly Batch Process.

2.2. Availability

INTERNATIONAL will process the **Process Information -- EDI-866** transactions on demand and the transaction will be delivered in the nightly batch process. Acknowledgment response (EDI-997) will be processed during any of the following process times.

INTERNATIONAL EDI Transaction Processing Window

	From	То
Monday - Friday	00:00	23:00
Saturday	00:00	17:30
Sunday	22:00	00:00

All Times are for the Central Time Zone.

Any EDI transactions submitted to **International** during a downtime will remain in **International**'s mailbox until the process is resumed. Any transactions generated by **International** outside of the processing windows will be suspended and delivered at the next available window.

2.3. Off Hours

For Off Hours Support, **International** provides a voice mail system on the EDI Hot Line number and the supplier's Plant EDI Coordinator. Suppliers should leave a message indicating the problem and any related information available about the problem along with a contact and telephone number.

Any EDI transactions that are sent to International by the supplier will be retained in International's mailbox until International's system becomes available. Any EDI transactions that International has to deliver to the supplier will be retained and distributed as soon as International's system becomes available.

2.4. International Expectations of Supplier

INTERNATIONAL expects the Supplier to retrieve each **Process Information -- EDI-866** in a timely manner. The supplier should process the transaction and forward it to all appropriate disciplines.

2.5. Impact on International's Supplier Performance Rating System

Failure to acknowledge an accurate **Process Information -- EDI-866** in a timely manner (1 business day) with an EDI-997 will result in a penalty on the Supplier Performance Evaluation.

3. EDI Transaction and Business Examples

Example of EDI 866 AIAG Formatted Data for Process Data at a Job Level See Implementation Guide for Complete Details

EDI DATA ELEMENT	DATA CONTENT	<u>EXPLANATION</u>
ST*866*0001 _{N/L}	ANSI transaction set 866, transaction ID Number 0001	ANSI transaction set 866, transaction ID Number 0001
BSS*05*R2617P*19990627*DL*19990 628*19990731*002ASM12345X199062 7****A _{NL}	Replacement Document R2617P, Dated 6/27/1999, Delivery Based Forecast from 6/28/1999 to 7/31/1999, Release Number 002ASM12345X1990627, Actual Discreet Quantities	Replacement Document R2617P, Dated 6/27/1999, Delivery Based Forecast from 6/28/1999 to 7/31/1999, Release Number 002ASM12345X1990627, Actual Discreet Quantities
N1*ST**92*002ASM _{N/L}	The ship-to-location	The ship-to-location is Springfield Assembly Plant
N1*SU**92*12345X1 _{N/L}	Supplier/Manufacturer	The International Supplier Code 12345X1.
DTM*002****D8*19990628 _{N/L}	Delivery requested	Delivery requested on 6/28/1999
REF*LF*1 _{N/L}	Assembly Line	Assembly Line Number is 1.
LIN**JN*507399 _{N/L}	Job Number	Job Number is 507399
REF*QZ*FD0005103001020070220X6	Drawing Number	Related Assembly Drawing Number is FD0005103001020070220X6
REF*QZ*FD0005103002030070220X6	Drawing Number	Related Assembly Drawing Number is FD0005103002030070220X6

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Example of EDI 866 AIAG Formatted Data for Process Data at a Job Level Cont. See Implementation Guide for Complete Details

EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
SLN*J**I _{N/L}	Sub-line Information Segment for the associated LIN segment – Information Only	This SLN is used communicate Job Level Process Information.
PID*X**ZZ*ORD-JOB-POSN*1 _{NL}	Job Position within the Order	Position of the Job within the Order. Job Position is the 1 st truck
PID*X**ZZ*ORD-QTY*10 _{N/L}	Order Quantity	Order Quantity is an order of 10.
PID*X**ZZ*AF*01340 _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	DIM FROM CNTR OF REAR AXLE TO FRAME END (AfterFrame) value is 0134.0 related to Job 507399
PID*X**ZZ*FEATURE-CODE* 504615 _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	Feature Code value is "504615"
PID*X**ZZ*FEATURE-CODE* 504030 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	Feature Code value is "504030"
PID*X**ZZ*IP-LOCATION*SW-FOG- LT**S4 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	Instrument Panel Switch Information value: Type is "SW-FOG-LT" in location "S4"
PID*X**ZZ*IP-LOCATION*SW-ENG-BK-SEL**S3 _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	Instrument Panel Switch Information value: Type is "SW-ENG-BK-SEL" in location "S3"

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EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
PID*X**ZZ*PROP1* 02BNN _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	PROPSHAFT POSITION 1 value is " 02BNN"
PID*X**ZZ*PT1*S 2322 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	POSITION 1 PAINT CODE value is "S 2322"
PID*X**ZZ*WB*05600 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	DIM FROM CENTER OF FRONT AND REAR AXLES (Wheelbase) value is 0560.0
SLN*1**I*8*PC****BP*158120R91 _{NL}	Assigned identification, subline item detail with line item, quantity, unit of measure, buyers part number	Assigned identification 1, subline item detail is included with line item, quantity of 8, unit of measure is piece, buyers part number is 158120R91
N1*VN**92*69341X3 _{N/L}	Vendor Number	Vendor Code is 69341X3
PID*X**ZZ*TIRE*005A*FR _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 005A for front valve stem
QTY*QP*2*EA _{N/L}	Related Quantity for Commodity	Requires 2 valve stems for the front.
PID*X**ZZ*TIRE*005A*BK _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity code 005A for rear valve stem.
QTY*QP*4*EA _{N/L}	Related Quantity for Commodity	Requires 4 valve stems for the rear.

EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
PID*X**ZZ*TIRE*005A*FS _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 005A for front spare valve stem
QTY*QP*1*EA _{NL}	Related Quantity for Commodity	Requires 1 valve stem for front spare.
PID*X**ZZ*TIRE*005A*SS _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 005A for rear spare valve stem.
QTY*QP*1*EA _N L	Related Quantity for Commodity	Requires 1 valve stem for rear spare
SLN*2**I*8*PC****BP*2029546C1 _{NL}	Assigned identification, sub-line item detail included with line item, quantity, unit of measure, buyers part number.	Assigned identification 2, sub-line item detail is included with line item, quantity of 8, unit of measure is piece, buyers part number is 2029546C1.
N1*VN**92*43216X1 _{N/L}	Vendor Number	Vendor Code is 43216X1.
PID*X**ZZ*TIRE-PAINT*9036 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	Paint color is 9036 for part number 2029546C1
QTY*01*2*GA _{N/L}	Related Quantity for Commodity	Requires 2 gallons of color 9036

EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
PID*X**ZZ*TIRE*594B*FR _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 594B for front rims
QTY*QP*2*EA _{N/L}	Related Quantity for Commodity	Requires 2 rims for front
PID*X**ZZ*TIRE*594B*BK _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL commodity code 594B for rear rims.
QTY*QP*4*EA _{NL}	Related Quantity for Commodity	Requires 4 rims for rear.
PID*X**ZZ*TIRE*594B*FS _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 594B for front spare rims
QTY*QP*1*EA _{NL}	Related Quantity for Commodity	Requires 1 rim for front spare
PID*X**ZZ*TIRE*594B*SS _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 594B for rear spare rims
QTY*QP*1*EA _{NL}	Related Quantity for Commodity	Requires 1 rim for rear spare
SLN*3**I*8*PC****BP*7332110185 _N L	Assigned Identification subline item, quantity, unit of measure, buyers part number is 7332110185	Assigned Identification 3, subline item, quantity of 8, unit of measure is piece, buyers part number is 7332110185

Example of EDI 866 AIAG Formatted Data for Process Data at a Job Level Cont. See Implementation Guide for Complete Details

EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
N1*VN**92*34567X1 _{N/L}	Vendor Number	Vendor Code is 34567X1
PID*X**ZZ*TIRE-TYPE*DD _N ∟	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	Directional Tires are required
PID*X**ZZ*TIRE*556A*FR _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 556A for front tire.
QTY*QP*2*EA _{N/L}	Related Quantity for Commodity	Requires 2 tires for front
MEA**T1*70*LB _{N/L}	Tires pressure	Front tires require 70 lbs. of pressure
PID*X**ZZ*TIRE*556A*BK _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 556A for rear tires
QTY*QP*4*EA _{N/L}	Related Quantity for Commodity	Requires 4 tires for the rear
MEA**T1*90*LB _{N/L}	Tire pressure	Rear tires requires 90 lbs. of pressure
PID*X**ZZ*TIRE*556A*FS _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 556A for front spare tire
QTY*QP*1*EA _{N/L}	Related Quantity for Commodity	Requires 1 tire for front spare
MEA**T1*70*LB _{N/L}	Tire pressure	Front spare tire require 70 lbs. of pressure

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Example of EDI 866 AIAG Formatted Data for Process Data at a Job Level Cont. See Implementation Guide for Complete Details

EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
PID*X**ZZ*TIRE*556A*SS _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated SLN segment within the LIN.	PART LEVEL PROCESS INFORMATION INTERNATIONAL Commodity Code 556A for rear spare tire
QTY*QP*1*EA _N L	Related Quantity for Commodity	Requires 1 tire for rear spare
MEA**T1*90*LB _{N/L}	Tire pressure	Rear spare tire requires 90 lbs. of pressure
DTM*002****D8*19990628 _{N/L}	Delivery requested	Delivery requested on 6/28/1999
REF*LF*2 _{N/L}	Assembly Line	Assembly Line Number is 2.
LIN**JN*507400 _{N/L}	Job Number	Job Number is 507400
REF*QZ*FD0005103007010070220X6	Drawing Number	Related Assembly Drawing Number FD0005103007010070220X6
REF*QZ*FD0005103009030070220X6	Drawing Number	Related Assembly Drawing Number FD0005103009030070220X6
SLN*J**I _{N/L}	Sub-line Information Segment for the associated LIN segment – Information Only	This SLN is used communicate Job Level Process Information.
PID*X**ZZ*ORD-JOB-POSN*1 _{N/L}	Job Position within the Order	Position of the Job within the Order. Job Position is the 1 st truck
PID*X**ZZ*ORD-QTY*10 _{N/L}	Order Quantity	Order Quantity is an order of 10.
PID*X**ZZ*AF*01540 _{NL}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	DIM FROM CNTR OF REAR AXLE TO FRAME END (AfterFrame) value is 0154.0 related to Job 507400

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EDI DATA ELEMENT	DATA CONTENT	EXPLANATION
PID*X**ZZ*PROP1* 02BNN _N L	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	PROPSHAFT POSITION 1 value is " 02BNN"
PID*X**ZZ*PT1*S 2344 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	POSITION 1 PAINT CODE value is "S 2344"
PID*X**ZZ*WB*05800 _{N/L}	Semi-Structured (Code & Text) Process Information related to specific job stated in the associated LIN segment.	DIM FROM CENTER OF FRONT AND REAR AXLES (Wheelbase) value is 0580.0
CTT*2 _{N/L}	Controls total 2 DTM segment.	Control total 2 DTM segments.
SE*71*0001 _{N/L}	71 segments transmitted in transaction 0001.	71 segments transmitted in transaction 0001.

4. Definition of Terms

014 Tulsa Bus Plant 020 Chatham Assembly Plant 062 SST (Garland) Assembly Plant 065 Escobedo Assembly Plant 078 PEC Facility	Plant Code	020 062 065 078	 	Chatham Assembly Plant SST (Garland) Assembly Plant Escobedo Assembly Plant
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5. International Specific Codes

The International specific codes for this transaction set are listed in the following table. The Process Identification Code and the EDI data will be what is transmitted in the Process 866. *NOTE: "_" signify a blank character.* These are International Specific Codes that will be transmitted in the PID Free Form segments. This list is a sampling and codes will be added as necessary to support the assembly process for individual ABR modules. Affected suppliers will be notified of such changes.

751-Product	352-	Description/Definition of Code		
Description	Description			
Code Sample EDI				
Data				
AF	01340	DIM FROM CNTR OF REAR AXLE TO FRAME END		
		Format: 5 numeric with 1 decimal i.e. 0134.0		
CHA-S	133CW	CHASSIS PAINT SCHEMATIC		
		Format: 5 Character Maximum		
CUST-NAME	Cannon Express	CUSTOMER NAME		
		Format: 25 Character Maximum		
CUST-NO	253333	CUSTOMER NUMBER		
		Format: 6 Char Maximum		
FAR	12000	FRONT AXLE RATIO		
		Format: 5 Numeric with trailing sign if negative		
FEATURE-CODE	504615	FEATURE CODE		
		Format: 6 Character Maximum		
FUELTANK-LOC		FUEL TANK LOCACTION		
		Format: 1 Character Maximum		
INNER AXLE		INNER AXLE POSITION		
		Format: 11 Character Maximum 1: position 2 – 11 : Part Number		
IP-LOCATION	SW-FOG-LT in	INSTRUMENT PANEL SWITCH LOCATION INFORMATION		
	element	Format: Character Format (Variable length)		
	352/PID05	Switch Type in element 352/PID05 while the switch location will be in element		
	<u>84</u> in element	822/PID 07 ated with element 352.		
	822/PID07			
MODEL	L275700	PRODUCT MODEL CODE		
		Format: 7 Character Maximum		
MVMT-DLR-CD		DROP SHIP DEALER CODE		
		Format: 6 Character Maximum		
MVMT-DLR-LOC		DESTINATION DEALER LOCATION		
		Format: 3 Character Maximum		
MVMT-VEH-NO		VEHICLE VIN NUMBER		
		Format: 17 Character Maximum		
ORD-DLR-CD		ORDERING DEALER CODE		
		Format: 6 Character Maximum		
ORD-JOB-POSN		JOB POSITION IN THE ORDER		
		Format: 5 Numeric Maximum		
ORD-NO	395333	ORDER NUMBER		
		Format: 6 Character Maximum		
ORD-QTY	10	ORDER QUANTITY		
		Format: 5 Numeric with trailing sign if negative		
ORD-JOB-POSN	1	JOB POSITION within ORDER QUANTITY		
		Format: 5 Numeric with trailing sign if negative		
PLT	N	PRODUCING PLANT LOCATION CODE		
		Format: 1 Character		

5. International Specific Codes Continued...

751-Product	352-	Description/Definition of Code
Description	Description	
Code	Sample EDI	
DDOD1	Data	DDODOLLAST DOOLTION 4
PROP1	_02BNN	PROPSHAFT POSITION 1 Format: (Tire Variation Type Code(1 Character which may be blank) +
		Tire Variation (6 Character Maximum))
PROP2		PROPSHAFT POSITION 2 (Format like Position1)
PROP3	03BPJ	PROPSHAFT POSITION 2 (Format like Position1) PROPSHAFT POSITION 3 (Format like Position1)
PROP4	01ZDH	PROPSHAFT POSITION 4 (Format like Position1)
PROP5	_012011	PROPSHAFT POSITION 4 (Format like Position1)
PROP6		PROPSHAFT POSITION 5 (Format like Position1)
PROP7		PROPSHAFT POSITION 6 (Format like Position1) PROPSHAFT POSITION 7 (Format like Position1)
PROP8		PROPSHAFT POSITION 7 (Format like Position1)
PROPID	4427DTP0520	PROPSHAFT ACCESSORIES
IROIID	112/0110320	Format: 11 Character Maximum
		Character 1 – Tire Prop Location Code
		Characters 2 – 11 – Tire Prop Code
PT1	s 2322	PT1 -1- POSITION 1 PAINT CODE
		Format: (Paint Location Code (1 - 2) –
		Paint Color Code (3 - 6) –
		Paint Special Code (7))
PT2		PT1 - 2- POSITION 2 PAINT CODE (Format like Paint 1)
PT3		PT1 - 3- POSITION 3 PAINT CODE (Format like Paint 1)
PT4		PT1A - 4- POSITION 4 PAINT CODE (Format like Paint 1)
PT5		PT1A - 5 - POSITION 5 PAINT CODE (Format like Paint 1)
PT6		PT1A - 6 - POSITION 6 PAINT CODE (Format like Paint 1)
PT7		PT1B - 7 - POSITION 7 PAINT CODE (Format like Paint 1)
PT8		PT1B - 8 - POSITION 8 PAINT CODE (Format like Paint 1)
PT9		PT1B - 9 - POSITION 9 PAINT CODE (Format like Paint 1)
PTA		PT2C - A - AIR SHIELD PAINT CODE (Format like Paint 1)
PTB		PT23 - B - BUMPER PAINT CODE (Format like Paint 1)
PTD		PT2G - D - AIR DAM PAINT CODE (Format like Paint 1)
PTF		PT21 - F - FRAME PAINT CODE (Format like Paint 1)
PTH		PT2F - H - HUB PAINT CODE (Format like Paint 1)
PTP		PT2E - P - PIN STRIPE PAINT CODE (Format like Paint 1)
PTR		PT2A - R - RIM PAINT CODE (Format like Paint 1)
PTS		PT2D - S - SUN SHADE PAINT CODE (Format like Paint 1)
PTT		PT2B - T - FUEL TANK PAINT CODE (Format like Paint 1)
PTW		PT22 - W - WHEEL PAINT CODE (Format like Paint 1)
PTX		PTX - C - CAB INTERIOR PAINT CODE(Format like Paint 1)
RAR	20000	REAR AXLE RATIO
		Format: 5 numeric with trailing sign if negative
REGION	226	REGION OF SALE
		Format: 3 Character Maximum
WB	05600	DIM FROM CENTER OF FRONT AND REAR AXLES
		Format: 5 numeric with 1 decimal position, i.e. 0560.0
TIRE-PAINT	9331-19	TIRE PAINT CODE
		Format: 7 character
TIRE-TYPE	DD	TYPE OF TIRE (Directional) -
		Format: 2 Characters (MM, DD, SN, OR, VS, MU, UT) followed by a location
m	5043	code
TIRE	594A	Specific Tire Information related to Commodity Code and Position
		Format: PID05 will contain Commodity Code (4 Character)
		PID06 will contain the Position (BK, FR, FS, SS)

6. Conformance Testing Procedures

Upon readiness **International** will transmit an actual transaction set of the supplier's related schedule.