

Implementation Guide EDI Mapping to send in an EDI 404 corrector Message

Version 8030

Purpose of EDI 404 corrector Message

The EDI 404 corrector message is sent by the customer to add or correct information to an existing EDI 404 transmission that we received and created a bill of lading (EDI 404) in our Service Reliability System (SRS).

EDI Version & Guidelines

The EDI 404 corrector message version matches the same version used on the original EDI 404 that we received. We can currently accept up to Version 008030.

Customized Formats

It is entirely the responsibility of the Receiver of the EDI 404 who requires coding or a mapping structure other than what is expressly written in the EDI Guidelines and here in the CN Implementation Guide to have the necessary changes performed at their system or through a Value Added Network (VAN).

Connection to CN

CN has a secure MFT server https://mftedi.cn.ca/ or we can push to an FTP server if you require. CN also connects with all major VAN's (Value Added Networks) and interconnects can be made available.

CN Contact

The EDI Onboarding team email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

Canadian National Railway - Electronic Commerce

The enclosed documentation covers information required to submit an EDI 404 corrector transmission to update or add segments to an existing EDI 404 transmission.

Canadian National Railway - Electronic Commerce Original EDI 404 transmission

CN recommends EDI shippers to be within 2 versions of the current EDI Standard X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set

ISA*00* *00* *ZZ*GENERIC *02*CN *230828*1339*U*00803*006298413*0*P*> GS*SR*GENERIC*CN*20230828*1336*98826*X*008030

ST*404*988260001

BX*00*R*PP**CN*L*B*N

BNX*S**S

M3*R*20230828*1339*ET

N9*BM*1257**20230828*1339

N7*CN*123456*213360*N*******RR

F9**WATSON*SK

D9VANCOUVER*BC**

N1*SH*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*WATSON*SK*S0K 4V0*CA

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

N1*CN*GENERIC CONSIGNEE CO

N3*12 SMITH STREET

N4*VANCOUVER*BC*V5K 1P7*CA

N1*PF*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*WATSON*SK*S0K 4V0*CA

R2*CN*S****R

LX*1

L5*1*WALLBOARD*3275440*T

L0*1***213360*N***1*CLD

SE*27*988260001

GE*1*98826

IEA*1*006298413

Canadian National Railway - Electronic Commerce EDI Corrector 404 transmission

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the submission of the EDI 404 corrector transmission. In this case, we are adding an embargo number and embargo permit number.

ISA*00* *00* *ZZ*GENERIC *02*CN *230828*1339*U*00803*006298413*0*P*> GS*SR*GENERIC*CN*20230828*1339*98826*X*008030 ST*404*988260001

ZC1**CN*123456*1257*20230828*CO*CN*R

BX*00*R*PP**CN*L*B*N

BNX*S**S

M3*R*20230828*1339*ET

N9*BM*1257**20230828*1339

N9*EN*CN002223

N9*EB*CN2223AU18

N7*CN*123456*213360*N*******RR

F9**WATSON*SK

D9VANCOUVER*BC**

N1*SH*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*WATSON*SK*S0K 4V0*CA

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

N1*CN*GENERIC CONSIGNEE CO

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N4*VANCOUVER*BC*V5K 1P7*CA

N1*PF*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*WATSON*SK*S0K 4V0*CA

R2*CN*S

LX*1

L5*1*WALLBOARD*3275440*T

L0*1***213360*N***1*CLD

SE*30*988260001

GE*1*98826

IEA*1*006298413

ISA Segment: Interchange Control Header

ISA*00*	0* *00* *ZZ*GENERIC *02*CN *230828*1339*U*(00803*006298413*0*P*		
Ref. Des.	Name			Data Element	Attrib	utes
ISA01	Authoriza	tion Information Q	ualifier	I01	ID	2/2
ISA02		tion Information		I02	AN	10/10
ISA03		nformation Qualific	er	I03	ID	2/2
ISA04		nformation		I04	AN	10/10
ISA05	Interchang	ge ID Qualifier		I05	ID	2/2
ISA06	(GENERI	ge Sender ID C - fill out field wi	th spaces)	I06	AN	15/15
ISA07		ge ID Qualifier AC use 02)		I05	ID	2/2
ISA08		ge Receiver ID out field with space	es)	107	AN	15/15
ISA09	Interchang (YYMMD			I08	DT	6/6
ISA10	Interchang (HHMM)	ge Time		I09	TM	4/4
ISA11	Repetition (Suggest "	Separator (^^")		I65		1/1
ISA12	Interchang (Value 00)	ge Control Version 803)	Number	I11	ID	5/5
ISA13	Interchang	ge Control Number number assigned b		I12	N0	9/9
ISA14	Acknowle	dgment Requested requested, 1= requ	•	I13	ID	1/1
ISA15	Usage Ind (P = Produ (T = Test)	icator action)	cstcay	I14	ID	1/1
ISA16		nt Element Separat	or	I15		1/1

GS Segment: Functional Group Header

GS*SR*GENERIC*CN*20230828*1339*98826*X*008030

Ref. Des.	Name	Data Element	Attribu	tes
GS01	Functional Identifier Code (SD = Pail Corrier Shipmont Information)	479	ID	2/2
GS02	(SR = Rail Carrier Shipment Information) Application Sender's Code (Customer's sender ID)	142	AN	2/15
GS03	Application Receiver's Code (CN = Canadian National)	124	AN	2/15
GS04	Date (YYYYMMDD)	373	DT	8/8
GS05	Time (HHMMSS)	337	TM	4/8
GS06	Group Control Number (Assigned number originated and maintained)	28 ed by the sender)	N0	1/9
GS07	Responsible Agency Code (X = Accredited Standards Committee X12)	455	ID	1/2
GS08	Version / Release / Industry Identity	480	AN	1/12

ST Segment: Transaction Set Header

To indicate the start of a transaction set and to assign a control number.

ST*404*988260001

Ref. Des.	Name	Data Element	Attribut	es
ST01	Transaction Set Identifier Code (404 = Rail Carrier Shipment Information (1)	143 Bill of Lading))	ID	3/3
ST02	Transaction Set Control Number (Sequential control number generated by Cu	329	AN	4/9

ZC1 Segment: Beginning Segment for Data Correction or Change

ZC1**CN*123456*1257*20230828*CO*CN*R

Ref. Des.	Name	Data Element	Attribu	ıtes	
-			,		
ZC102	Equipment Initial	206	AN	1/4	
ZC103	Equipment Number	207	AN	1/15	
ZC104	Transaction Reference Number	244	AN	1/50	
	(This is the N9*BM (Bill of lading) from th	e original 404)			
ZC105	Transaction Reference Date	243	DT	8/8	
	(This is the N904 on the original 404 – (YY	YYMMDD)			
ZC106	Correction Indicator Code	202	ID	2/2	
	(CO=correct the EDI 404 sent)				
	(CA=cancel the EDI 404 sent)				
ZC107	Standard Alpha Carrier Code	140	ID	2/4	
	(Use CN for corrections originating on CN lines)				
ZC108	Transportation Method/Type Code	91	ID	1/2	
	(R=rail)				
	(X=intermodal)				

Changes can be accepted with a ZC corrector, if conveyance already under CN control (in gate), for the following:

Weight code	BNX01
Weight Agreement	N9*WM
STCC	L503
Quantity of articles	L008/L009
Seal numbers	M701
Flat deck delivery	H3*FDD

BX Segment: General Shipment Information

BX*00*R*PP**CN*L*B*N

Ref. Des.	Name	Data Element	Attribu	ites
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R = Rail)	91	ID	1/2
BX03	Shipment Method of Payment (PP = Prepaid)	146	ID	2/2
	BX05 Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds)	188	ID	1/1
BX07	Shipment Qualifier (B = Bill of Lading for Individual Shipmen	147 nt)	ID	1/1
BX08	Section Seven Code (N=not in effect)	226	ID	1/1

BNX Segment: Rail Shipment Information

BNX*S**S

Ref. Des.	Name	Data Element	Attribut	es
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released through other means.

M3*R*20230828*1339

Ref. Des.	Name	Data Element	Attributes		
M301	Release Code	132	ID	1/1	
M302	(R = Release with Shipment Information) Release Date	373	DT	8/8	
M303	(CCYYMMDD) Release Time (HHMM, 24-hour clock 0001-2359)	337	TM	4/6	

N9 Segment: Extended Reference Information

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*1257**20230828*1339 N9*EN*CN002218 N9*EB*CN2218DE18

Name	Data Element	Attribu	tes
Reference Number Qualifier (BM = Bill of Lading number) (EN=embargo number) (ER=ambargo permit number)	128	ID	2/3
Reference Number	127	AN	1/30
Date	373	DT	8/8
Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDI H=hours 00-23 M=minutes 00-59 S=second	ds 00-59	TM	4/8
	Reference Number Qualifier (BM = Bill of Lading number) (EN=embargo number) (EB=embargo permit number) Reference Number (Max 15 characters for B/L # (BM)) Date (CCYYMMDD, required for B/L (BM)) Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDI H=hours 00-23 M=minutes 00-59 S=second	Reference Number Qualifier (BM = Bill of Lading number) (EN=embargo number) (EB=embargo permit number) Reference Number (Max 15 characters for B/L # (BM)) Date (CCYYMMDD, required for B/L (BM)) Time 128 128 128 128 127 127 127 127	Reference Number Qualifier 128 ID (BM = Bill of Lading number) (EN=embargo number) (EB=embargo permit number) Reference Number 127 AN (Max 15 characters for B/L # (BM)) Date 373 DT (CCYYMMDD, required for B/L (BM)) Time 337 TM (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59

N7 Segment: Equipment Details

N7*CN*123456*213360*N*******RR

Ref. Des.	Name	Data Element	Attributes		
N701	Equipment Initial	206	AN	1/4	
N702	Equipment Number	207	AN	1/15	
N703	Weight	81	R	1/10	
N704	Weight Qualifier (N = Net Weight)	187	ID	1/2	
N711	Equipment Description Code (RR = Railcar)	40	ID	2/2	

F9 Segment: Origin Station

Indicates the origin of the shipment, the point from which it is shipped. The spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9**WATSON*SK

Ref. Des.	Name	Data Element	Attribut	tes
	Origin Station	19	AN	2/30
	State or Province Code	156	ID	2/2

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. The spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9VANCOUVER*BC**

Ref. Des.	Name	Data Element	Attributes		
	Destination Station	19	AN	2/30	
	State or Province Code	156	ID	2/2	

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are repeated for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC
N3*123 FIRST ROAD
N4*WATSON*SK*S0K 4V0*CA
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*VANCOUVER*BC*V5K 1P7*CA
N1*PF*GENERIC CARLOAD INC
N3*123 FIRST ROAD
N4*WATSON*SK*S0K 4V0*CA

Ref. Des.	Name	Data Element	Attribu	tes
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee)	98	ID	2/3
N102	(PF = Payer of Freight) Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element Attribute		res
N301	Address Information	166	AN	1/30

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes		
N401	City Name	19	AN	2/30	
N402	State or Province Code	156	ID	2/2	
N403	Postal Code	116	ID	3/15	
N404	Country Code	26	ID	2/3	

^{**}For North American countries, use the ISO-3166 Alpha-2 character code.

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Ref. Des.	Name	Data Element	Attribu	tes
PER01	Contact function code	366	ID	2/2
	(IC = Information contact)			
PER02	Name	93	AN	1/35
PER03	Communication number qualifier	365	ID	2/2
	(TE=telephone)			
PER04	Communication number	364	AN	1/80
PER05	Communication number qualifier	365	ID	2/2
	(EM=email address)			
PER06	Communication number	364	AN	1/80

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S

Ref. Des.	Name	Data Element	Attribu	ites	
R201	Standard Carrier Alpha Code (SCAC)	140	ID	2/4	
K201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc.)	140	ID	2/4	
R202	Routing Sequence Code	133	ID	1/2	
(S = Origin Carrier, Shipper's Routing (Rail))					
R203	Junction Name (Contains Rule 260 abbreviation only)	19	AN	2/30	

^{**}When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final

LX Segment: Transaction Set Line Number

LX*1

Ref. Des.	Name	Data Element	Attributes	
LX01	Assigned Number (Number assigned for differentiation within	554 a a transaction set)	N0	1/6

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*WALLBOARD*3275440*T

Ref. Des.	Name	Data Element	Attrib	utes	
L501	Line Number	213	N0	1/6	
L502	Commodity Description	79	AN	1/50	
L503	Commodity Code	22	AN	1/30	
(7-digit Standard Transportation Commodity Code (STCC))					
L504	Commodity Code Qualifier	23	ID	1/1	
	(T = Standard Transportation Comm	odity Code (STCC))			

L0 Segment: Line Item - Quantity and Weight

L0*1***213360*N***1*CLD

Ref. Des.	Name	Data Element	Attributes		
L001	Lading Line Item Number	213	N0	1/6	
L004	Weight	81	R	1/10	
L005	Weight Qualifier	187	ID	1/2	
	(N = Net Weight)				
L008	Lading Quantity	80	N0	1/7	
L009	Packaging Form Code	211	ID	3/3	
	(CLD = Carload)				

SE Segment: Transaction Set Trailer

SE*30*988260001

Ref. Des.	Name	Data Element	Attribu	ites
SE01	Number of Included Segments (Includes ST and SE segments)	96	N0	1/10
SE02	Transaction Set Control Number (Repeated from ST segment ST02)	329	AN	4/9

GE Segment: Functional Group Trailer

GE*1*98826

Ref. Des.	Name	Data Element	Attrib	Attributes		
GE01	Number of Transaction Sets Included	97	N0	1/6		
GE02	Group Control Number (Repeated from GS segment GS06)	28	N0	1/9		

IEA Segment: Interchange Control Trailer

IEA*1*006298413

Ref. Des.	Name	Data Element Attribute		es	
	Number of included Functional Groups Interchange Control Number (Same number as ISA13)	l16 l12	N0 N0	1/5 9/9	

Criteria for changes to EDI 404 for Carload Shipments

- 1. If a ZC1 segment exists in the EDI 404, it will be used to complete the match and update the original EDI 404.
- 2. If no ZC1 segment is indicated on the EDI 404, the following criteria must be met:

Must be an Inbound EDI 404
The waybill in CN's system must be <u>active</u>.
Must match on the original Sender ID (GS02)
Must match on the equipment initial/number (N701 and N702)
Must match on the bill of lading number (N9*BM)

The following changes CANNOT be accepted to the following data/profiles:

- Shipper Customer (N1*SH and corresponding N3 and N4 segments)
- Consignee Customer (N1*CN and corresponding N3 and N4 segments)
- Care of Customer (N1*C1 and corresponding N3 and N4 segments)
- Shipped From Customer (N1*SF and corresponding N3 and N4 segments)
- Payer of Freight Customer (N1*PF and corresponding N3 and N4 segments)
- Movement Revenue Code (BX03 segment)
- Stop-Off Profile (S1, S2 and S9 segments)
- Load/empty status (BX07 segment)
- Route (R2 segment)
- Special Condition Codes (H3 segment)
- PPSI/temperature (PS segment)

The following changes CAN be accepted to the following data/profiles:

NB: acceptable changes must run through existing logic in our SRS mainframe system and generate a new waybill version upon execution.

- All parties indicated in the N1 segment, except as noted above (items 1-5)
- Metric/Imperial Weight Measure (BX06 segment)
- Net Weight (N703 and L004 segments)
- Weight Code (BNX01)
- Weight Agreement (BNX*A segment)
- Bill of Lading Number (N9*BM segment)
- STCC (L503 segment)
- Commodity Profile (L0 segment)
- Dangerous Profile (LH1, LH2, LH3, LFH, LH4, PER segments)
- Quantity of articles (L008 segment)
- Package type code (L009 segment)
- Seal numbers (M7 segment)
- Vessel Profile (CM segment)
- Goods and services tax code (BX13 segment)
- Freeform (L502 segment)
- Vehicle Profile (VC segment)
- Grain Profile (GA segments)
- Reference Numbers (N9 segments)
- Contract Profile (PI segment)
- Customs Profile (X1 segment)
- Shipper contact profile (PER segment)

Criteria for changes to EDI 404 for Intermodal Shipments

- 1. If a ZC1 segment exists in the EDI 404, it will be used to complete the match and update the original EDI 404.
- 2. If no ZC1 segment is indicated on the EDI 404, the following criteria must be met:

Must be an Inbound EDI 404

The waybill in CN's system must be active.

Must match on the original Sender ID (GS02)

Must match on the equipment initial/number (N701 and N702)

Must match on the bill of lading number (N9*BM)

The following changes CANNOT be accepted to the following data/profiles:

- Shipper Customer (N1*SH and corresponding N3 and N4 segments)
- Shipped From Customer (N1*SF and corresponding N3 and N4 segments)
- Destination Intermodal Terminal (the N4 segment for the N1*CN or N1*C1 segments)
- Payer of Freight Customer (N1*PF and corresponding N3 and N4 segments)
- Movement Revenue Code (BX03 segment)
- Load/empty status (BX07 segment)
- Net Weight (N703 and L004 segments)
 *** is allowed if the unit is not assigned or ramped to a car
- PPSI/temperature (PS segment)
- Temperature for gensets (PS segment)
- Intermodal Plan Code which affects origin dray (R205 segment)
- Route (R2 segment)
- Car Kind (N711, N715, and N720 segments)
- Special Condition Codes (H3 segment)
- Vessel Profile (CM segment)

The following changes CAN be accepted to the following data/profiles:

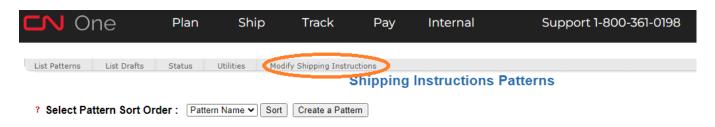
NB: acceptable changes must run through existing logic in our SRS mainframe system and generate a new waybill version upon execution.

- All parties indicated in the N1 segment, except as noted above (items 1-4)
- Weight Code (BNX01)
- Weight Agreement (BNX*A segment)
- Bill of Lading Number (N9*BM segment)
- STCC (L503 segment)
- Commodity Profile (L0 segment)
- Dangerous Profile (LH1, LH2, LH3, LFH, LH4, PER segments)
- Stop-Off Profile (S1, S2 and S9 segments)
- Quantity of articles (L008 segment)
- Package type code (L009 segment)
- Intermodal Plan Code which affects destination dray (R205 segment)
 ***Except if the Waybill Reference Number (N901 segment) is M5 (CSA shipment),
 then the Intermodal Plan code cannot change from *7 or *0
- Seal numbers (M7 segment)
- Goods and services tax code (BX13 segment)
- Flat Deck Delivery (H3*FDD segment)
- Freeform (L502 segment)
- Vehicle Profile (VC segment)
- Grain Profile (GA segments)
- Reference Numbers (N9 segments)
- Contract Profile (PI segment)
- Customs Profile (X1 segment)
- Shipper contact profile (PER segment)

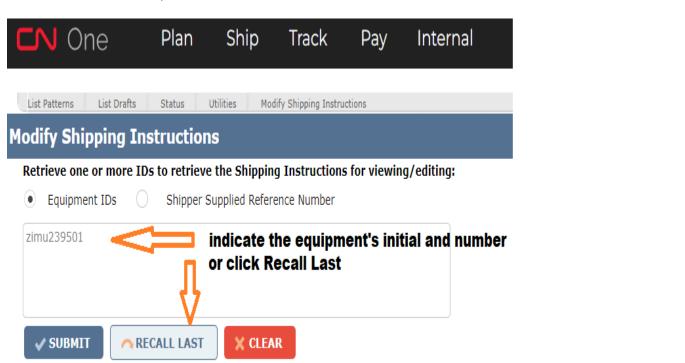
Canadian National Railway - Electronic Commerce Corrector to Shipping Instructions on the CN One website.

Sample Shipping Instructions with required data for the submission to Modify Shipping Instructions.

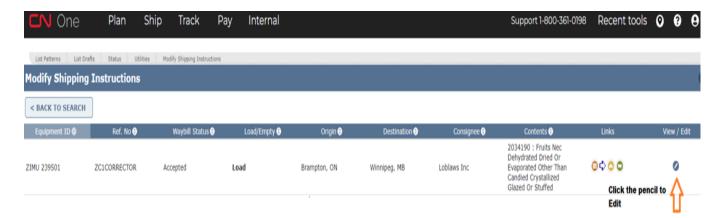
Changes to a CN One website Shipping Instructions can only be made by the <u>original user</u> that submitted the original Shipping Instructions.



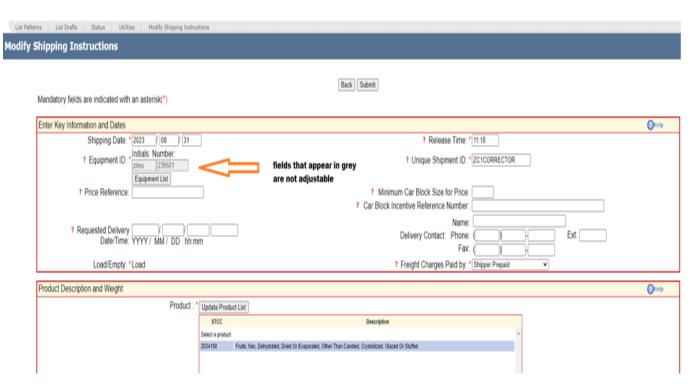
Indicate the equipment initial and number you wish to retrieve the Shipping Instructions and then press Submit.



On the far-right hand side, you will see the View/Edit column. Place your cursor on the blue radial button to Edit and click.



This will retrieve the Shipping Instructions that were submitted. Any fields that are in grey are not adjustable.



Once you are finished with the adjustment, click Submit.

Changes that can be accepted with a corrector, if conveyance already under CN control (in gate), are the following:

Unit of Measure Weight Type Product Packages/Packaging Type Seal numbers Special Handling