



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

Version 8050

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 8050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set

ISA*00* *00* *ZZ*GENERIC *02*CN
*250128*1339*U*00805*006298413*0*P*>
GS*SR*GENERIC*CN*20250128*1336*98826*X*008050
ST*404*988260001
BX*00*R*PP**CN*K*B*N
BNX*S**S
M3*R*20250128*1339*ET
N9*BM*1257**20250128*1339
N7*CN*123456*96981*N*****RR
F9**WATSON*SK
D9**VANCOUVER*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***96981*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 8050/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
*250128*1339*U*00805*006298413*O*P*>
GS*SR*GENERIC*CN*20250128*1339*98826*X*008050
ST*404*988260001
ZC1CN*123456*1257*20250128*CO*CN*R**
BX*00*R*PP**CN*K*B*N
BNX*S**S
M3*R*20250128*1339*ET
N9*BM*1257**20250128*1339
N9*EN*CN002223
N9*EB*CN2223AU18
N7*CN*123456*96981*N*****RR
F9**WATSON*SK
D9**VANCOUVER*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
LX*1
L5*1*WALLBOARD*3275440*T
L0*1***96981*N***1*CLD
SE*30*988260001
GE*1*98826
IEA*1*006298413

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*GENERIC *02*CN *250128*1339*U*00805*006298413*0*P*>

Ref. Des.	Name	Data Element	Attributes
ISA01	Authorization Information Qualifier	I01	ID 2/2
ISA02	Authorization Information (Ten spaces)	I02	AN 10/10
ISA03	Security Information Qualifier	I03	ID 2/2
ISA04	Security Information (Ten spaces)	I04	AN 10/10
ISA05	Interchange ID Qualifier	I05	ID 2/2
ISA06	Interchange Sender ID (GENERIC - fill out field with spaces)	I06	AN 15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID 2/2
ISA08	Interchange Receiver ID (CN - fill out field with spaces)	I07	AN 15/15
ISA09	Interchange Date (YYMMDD)	I08	DT 6/6
ISA10	Interchange Time (HHMM)	I09	TM 4/4
ISA11	Repetition Separator (Suggest “^”)	I65	1/1
ISA12	Interchange Control Version Number (Value 00803)	I11	ID 5/5
ISA13	Interchange Control Number (a control number assigned by sender)	I12	N0 9/9
ISA14	Acknowledgment Requested (0 = none requested, 1= requested)	I13	ID 1/1
ISA15	Usage Indicator (P = Production) (T = Test)	I14	ID 1/1
ISA16	Component Element Separator (Suggest “.”)	I15	1/1

GS Segment: Functional Group Header

GS*SR*GENERIC*CN*20250128*1339*98826*X*008050

Ref. Des.	Name	Data Element	Attributes
GS01	Functional Identifier Code (SR = Rail Carrier Shipment Information)	479	ID 2/2
GS02	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 by the sender)	28	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	Attributes
ST01	Transaction Set Identifier Code (404 = Rail Carrier Shipment Information (Bill of Lading))	143	ID 3/3
ST02	Transaction Set Control Number (Sequential control number generated by Customer)	329	AN 4/9

ZC1 Segment: Beginning Segment for Data Correction or Change

ZC1CN*123456*1257*20250128*CO*CN*R**

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

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*PPCN*K*B*N**

Ref. Des.	Name	Data Element	Attributes
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) (K = Kilograms)	188	ID 1/1
BX07	Shipment Qualifier (B = Bill of Lading for Individual Shipment)	147	ID 1/1
BX08	Section Seven Code (N=not in effect)	226	ID 1/1

BNX Segment: Rail Shipment Information

BNX*SS**

Ref. Des.	Name	Data Element	Attributes
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*20250128*1339

Ref. Des.	Name	Data Element	Attributes
M301	Release Code (R = Release with Shipment Information)	132	ID 1/1
M302	Release Date (CCYYMMDD)	373	DT 8/8
M303	Release Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)	337	TM 4/8

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*125720250128*1339**

N9*EN*CN002218

N9*EB*CN2218DE18

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading number) (EN=embargo number) (EB=embargo permit number)	128	ID 2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN 1/30
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT 8/8
N905	Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)	337	TM 4/8

N7 Segment: Equipment Details

N7*CN*123456*96981*N***RR**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial	206	AN	2/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/8
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.

F9WATSON*SK**

Ref. Des.	Name	Data Element	Attributes	
F902	Origin Station	19	AN	2/19
F903	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	
D902	Destination Station	19	AN	2/19

D903 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	Attributes
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee) (PF = Payer of Freight)	98	ID 2/3
N102	Name	93	AN 1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes
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	Attributes	
PER01	Contact function code (IC = Information contact)	366	ID	2/2
PER02	Name	93	AN	1/35
PER03	Communication number qualifier (TE=telephone)	365	ID	2/2
PER04	Communication number	364	AN	1/80
PER05	Communication number qualifier (EM=email address)	365	ID	2/2
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	Attributes	
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc.)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail))	133	ID	1/2
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 a transaction set)	554	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	Attributes
L501	Line Number	213	N0 1/6
L502	Commodity Description	79	AN 1/50
L503	Commodity Code (7-digit Standard Transportation Commodity Code (STCC))	22	AN 1/30
L504	Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC))	23	ID 1/1

L0 Segment: Line Item - Quantity and Weight

L0*1*96981*N***1*CLD**

Ref. Des.	Name	Data Element	Attributes
L001	Lading Line Item Number	213	N0 1/6
L004	Weight	81	R 1/8
L005	Weight Qualifier (N = Net Weight)	187	ID 1/2
L008	Lading Quantity	80	N0 1/5
L009	Packaging Form Code (CLD = Carload)	211	ID 3/3

SE Segment: Transaction Set Trailer

SE*30*988260001

Ref. Des.	Name	Data Element	Attributes	
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	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	Attributes	
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	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 **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)
- 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:

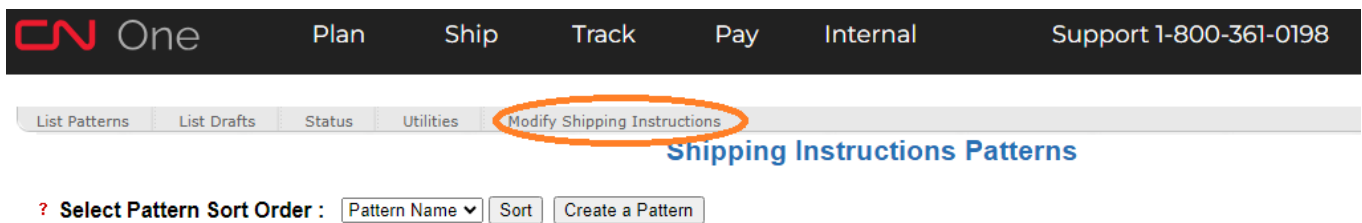
NB: acceptable changes must run through existing logic in our SRS mainframe system and generate a new waybill version upon execution.

- 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.

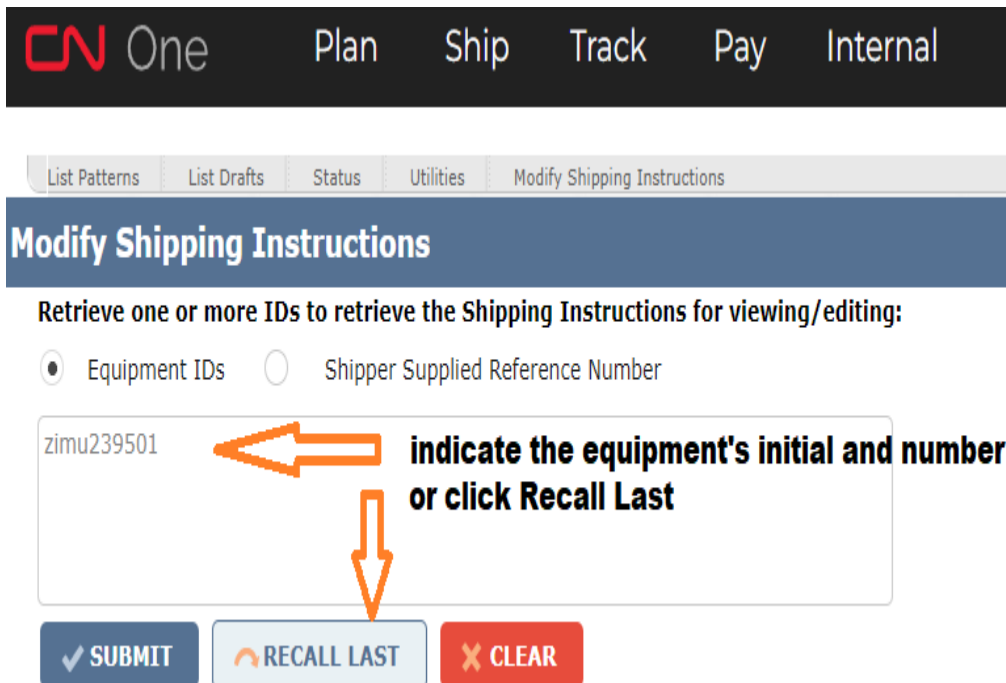
Sample Shipping Instructions with required data for the submission to Modify Shipping Instructions.

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







The screenshot shows the top navigation bar of the CN One website. The bar is dark with the CN One logo on the left and links for Plan, Ship, Track, Pay, Internal, and Support 1-800-361-0198 on the right. Below the navigation bar is a secondary bar with links for List Patterns, List Drafts, Status, Utilities, and Modify Shipping Instructions. The 'Modify Shipping Instructions' link is circled in orange. Below this bar is a blue header for 'Shipping Instructions Patterns' and a form with a dropdown menu for 'Select Pattern Sort Order', a 'Pattern Name' dropdown, a 'Sort' button, and a 'Create a Pattern' button.

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



The screenshot shows the 'Modify Shipping Instructions' form. The form has a dark blue header with the text 'Modify Shipping Instructions'. Below the header is a section titled 'Retrieve one or more IDs to retrieve the Shipping Instructions for viewing/editing:'. There are two radio buttons: 'Equipment IDs' (selected) and 'Shipper Supplied Reference Number'. Below the radio buttons is an input field containing the text 'zimu239501'. An orange arrow points to the input field with the text 'indicate the equipment's initial and number or click Recall Last'. Below the input field are three buttons: 'SUBMIT', 'RECALL LAST', and 'CLEAR'.

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.

Equipment ID	Ref. No	Waybill Status	Load/Empty	Origin	Destination	Consignee	Contents	Links	View / Edit
ZIMU 239501	ZC1CORRECTOR	Accepted	Load	Brampton, ON	Winnipeg, MB	Loblaws Inc	2034190 ; Fruits Nec Dehydrated Dried Or Evaporated Other Than Candied Crystallized Glazed Or Stuffed	  	 Click the pencil to Edit

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

Back Submit

Mandatory fields are indicated with an asterisk(*)

Enter Key Information and Dates

Shipping Date: * 2023 / 08 / 31 ? Release Time: * 11:18

? Equipment ID: * ? Unique Shipment ID: *

fields that appear in grey are not adjustable ? Minimum Car Block Size for Price:

 ? Car Block Incentive Reference Number:

? Price Reference:

? Requested Delivery / / Name:

 Date/Time: YYYY / MM / DD hh:mm Delivery Contact: Phone: Ext:

 Load/Empty: * Load Fax:

 ? Freight Charges Paid by: *

Product Description and Weight

Product: *

STCC	Description
Select a product	
2034190	Fruits, Nec, Dehydrated, Dried Or Evaporated, Other Than Candied, Crystallized, Glazed Or Stuffed

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