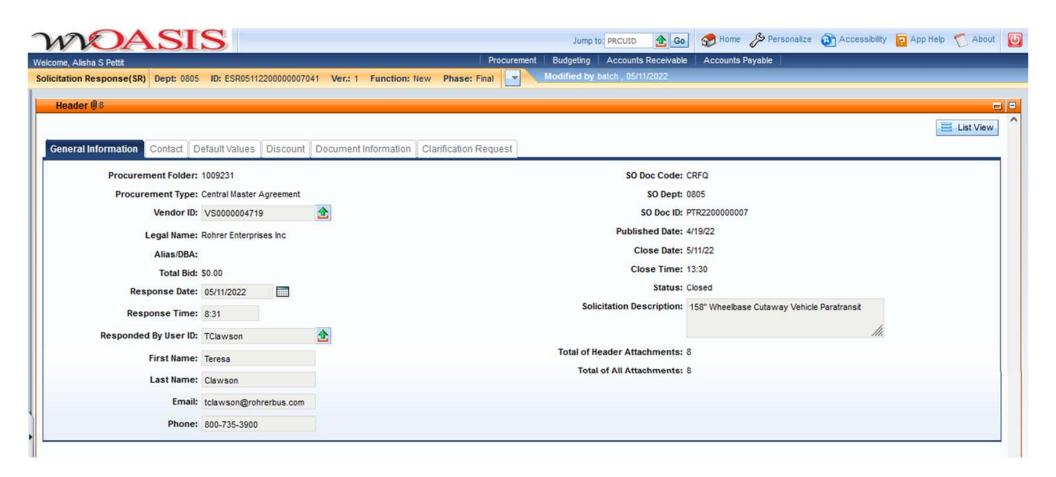


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Solicitation Response

Proc Folder: 1009231

Solicitation Description: 158" Wheelbase Cutaway Vehicle Paratransit

Proc Type: Central Master Agreement

 Solicitation Closes
 Solicitation Response
 Version

 2022-05-11 13:30
 SR 0805 ESR05112200000007041
 1

VENDOR

VS0000004719 Rohrer Enterprises Inc

Solicitation Number: CRFQ 0805 PTR2200000007

Total Bid: 0 Response Date: 2022-05-11 Response Time: 08:31:59

Comments:

FOR INFORMATION CONTACT THE BUYER

David H Pauline 304-558-0067 david.h.pauline@wv.gov

Vendor Signature X

FEIN# DATE

All offers subject to all terms and conditions contained in this solicitation

 Date Printed:
 May 11, 2022
 Page: 1
 FORM ID: WV-PRC-SR-001 2020/05

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	158" Wheelbase Cutaway Vehicle Paratransit	0.00000	EA	114890.000000	0.00

Comm Code	Manufacturer	Specification	Model #	
25101502				

Commodity Line Comments: Above price is for 2023 Ford E450 with Eldorado Advantage Bus Body.

This offer is subject to chassis supply constraints. If we would need to substitute a 2024 chassis/body, the combined price increase is projected to be \$7,780.00 and delivery would be increased to 270 days.

Thank you for the opportunity to bid on this solicitation.

David Clawson

Senior Vice President Sales

Rohrer Bus Sales

Extended Description:

158' Wheelbase Cutaway vehicle with 12 fixed seats and wheelchair lift and securement.

EXHIBIT A - CRFQ PTR22*07 PRICING PAGE 158" Wheelbase Cutway Vehicle (Paratransit)

VENDOR NAME: MANUFACTURER/MAKE/MODEL:

CLASS	VEHICLE DESCRIPTION	UNIT PRICE PER VEHICLE	ESTIMATED QUANTITY	EXTENDED PRICE
А	158" Vehicle, Twelve (12) Fixed Double Seats, Two (2) Wheelchair Positions, Rear Curbside Lift Location, With WV Transit Assistance Program Vinyl Logo and Stripes	114,890.00	3	344,670.00
	TOTAL BID FOR EVALUATION			

*Complete form provided. The DPT may purchase more or less as needed.

Note: These are only estimated quantities and do not reflect any guarantee of purchase.

Vendor should not alter pricing page and should fill out pricing page as it. The addition of alterations to the pricing page and/or addition of commodities other than those listed on the pricing page online or as an attachment will result in disqualification of bid submittal.

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ PTR2200000007

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:	
(Check the box next to each addendum received)

\triangle	Addendum No. 1	Addendum No. 6
×	Addendum No. 2	Addendum No. 7
×	Addendum No. 3	Addendum No. 8
×	Addendum No. 4	Addendum No. 9
	Addendum No. 5	Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Authorized Signature

5/7/22

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.



Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Centralized Request for Quote

Proc Folder:

1009231

Doc Description: 158" Wheelbase Cutaway Vehicle Paratransit

Reason for Modification:

Addendum No.1

To provide the correct

specifications the wrong specs were inadvertently provided

for See Page 2 for complete

info

2

Proc Type:

Central Master Agreement

Date Issued 2022-03-14

Solicitation Closes 2022-03-24 13:30

Solicitation No CRFQ

0805 PTR2200000007 Version

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Customer Code: VS0000004719

Vendor Name: Rohrer Enterprises, Inc. DBA Rohrer Bus Sales

Address: 1515 State Road PO Box 100

Street:

City: Duncannon

State: PA

Country: USA

Zip: 17020-9535

Principal Contact: David M Clawson Senior Vice President Sales

Vendor Contact Phone:800-735-3900/540-729-3751

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline 304-558-0067

david.h.pauline@wv.gov

Vendor Signature X

FEIN#23-2059976

DATE 5-9-22

All offers subject to all terms and conditions contained in this solicitation

Date Printed: Mar 14, 2022

Page: 1

FORM ID: WV-PRC-CRFQ-002 2020/05

Reason for Modification:

Addendum No.1

To provide the correct specifications the wrong specs were inadvertently provided for this solicitation. See attached for correct specifications.

ADDITIONAL INFORMATION

Addendum No. 1

To attached the correct specifications for this solicitation 158" Wheelbase Cutaway Vehicle Paratransit, as the wrong specifications were provided. Please see disregard the specifications that were attached to the initial documents.

Bid opening remains March 24, 2022 at 1:30 pm

No other changes.

INVOICE TO	SHIP TO
PUBLIC TRANSIT DIVISION OF	PUBLIC TRANSIT DIVISION OF
BLDG 5 RM 663	KANAWHA VALLEY REGIONAL TRANSPORTATION AUTHORITY
1900 KANAWHA BLVD E	1550 FOURTH AVE
CHARLESTON WV	CHARLESTON WV
US	US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	158" Wheelbase Cutaway Vehicle Paratransit	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #	
25101502				

Extended Description:

158' Wheelbase Cutaway vehicle with 12 fixed seats and wheelchair lift and securement.

SCHEDULE OF EVENTS Line Event Date 1 Technical questions due by 10:00 am 2022-03-16

Date Printed: Mar 14, 2022

	Document Phase	Document Description	Page 3
PTR2200000007	Final	158" Wheelbase Cutaway Vehicle Paratransit	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ PTR2200000007 Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CRFQ PTR2200000007 to reflect the change(s) identified and described below.

Applicable Addendum (Category:
-----------------------	-----------

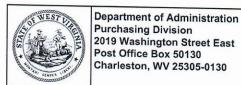
	Modify bid opening date and time
\boxtimes	Modify specifications of product or service being sought
	To respond to technical questions
	Attachment of pre-bid sign-in sheet
	Correction of error
	Other

Additional Documentation:

- 1. To remove incorrect specifications that were inadvertently included in solicitation and add the correct specifications attached to this addendum 1, see attached.
- 2. Bid opening date and time remains March 24, 2022, at 1:30 pm
- 3. No other changes.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.



State of West Virginia Centralized Request for Quote

Proc Folder:

1009231

Doc Description: 158" Wheelbase Cutaway Vehicle Paratransit

Reason for Modification:

Addendum No. 2 to move vendor technical question due date and

bid opening date.

Proc Type:

Central Master Agreement

Date Issued 2022-03-15

Solicitation Closes 2022-03-31 13:30

Solicitation No. CRFQ 0805

PTR2200000007

Version

3

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Customer Code: VS0000004719

Vendor Name: Rohrer Enterprises, Inc. DBA Rohrer Bus Sales

Address: 1515 State Road PO Box 100

Street:

City: DUNCANNON

State: PA

Country: USA

Zip: 17020-9535

Principal Contact: David M Clawson Senior Vice President Sales

Vendor Contact Phone: 800-735-3900/540-729-3751

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline 304-558-0067

david.h.pauline@wv.gov

Signature X

Vendor

FEIN# 23-2059976

DATE 3-30-22

All offers subject to all terms and conditions contained in this solicitation

Date Printed: Mar 15, 2022

Page: 1

FORM ID: WV-PRC-CRFQ-002 2020/05

ADDITIONAL INFORMATION

Addendum No. 2

To respond vendor request to extend due date for questions and to extend bid opening date: Extending the vendor technical questions due date to March 22, 2022 at 10:00 am

Moving Bid opening date to March 31, 2022 at 1:30 pm

No other changes.

PUBLIC TRANSIT DIVISION OF		SHIP TO	
		PUBLIC TRANSIT DIVISION OF	
BLDG 5 RM 663		KANAWHA VALLEY REGIONAL TRANSPORTATION AUTHORITY	
1900 KANAWHA BLVD E		1550 FOURTH AVE	
CHARLESTON WV		CHARLESTON	WV
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	158" Wheelbase Cutaway Vehicle Paratransit	0.00000	EA		
	Too Tritoologo Galaway Volilolo Farattariole	0.00000	LA		

Comm Code	Manufacturer	Specification	Model #	
25101502				

Extended Description:

158' Wheelbase Cutaway vehicle with 12 fixed seats and wheelchair lift and securement.

SCHEDULE OF EVENTS

<u>Line</u>	Event	Event Date	
1	Technical questions due by 10:00 am	2022-03-22	

	Document Phase	Document Description	Page 3
PTR220000007	Draft	158" Wheelbase Cutaway Vehicle Paratransit	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ PTR2200000007 Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as CRFQ PTR2200000007 to reflect the change(s) identified and described below.

Applicable	Addendum	Category:
------------	-----------------	-----------

\boxtimes	Modify bid opening date and time
	Modify specifications of product or service being sought
\boxtimes	To respond to technical questions
	Attachment of pre-bid sign-in sheet
	Correction of error
\boxtimes	Other

Additional Documentation:

- 1. To move Vendor Technical Questions due date to March 22, 2022, at 10:00 am
- 2. To move Bid opening date and time to March 31, 2022, at 1:30 pm
- 3. No other changes.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

CRFQ PTR22*07 - 158" Wheelbase Cutaway Vehicle Paratransit

Responding to Vendor request to move dates.

Q1. Would the State consider extending the due date for Technical Questions and corresponding closing date? The turnaround time established in the original bid documents was very tight, and the Addendum that was released yesterday further cut down the time prospective bidders have to thoroughly review the two bids released.

Given the supply chain issues and chassis crisis that our industry is experiencing, we are concerned that we cannot properly prepare a response to the request for Technical Questions for these solicitations in the timeframe allowed.

A1. We are extending the dates as questions will now be due on March 22, 2022, at 10:00 am and bid opening will be on March 31, 2022 at 1:30 pm, as per the attached documents.



Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Centralized Request for Quote

Proc Folder:

1009231

Doc Description: 158" Wheelbase Cutaway Vehicle Paratransit

Reason for Modification:

Addendum No. 3

To post vendor questions and responses, and to move bid opening date and time.

Proc Type:

Central Master Agreement

Date Issued 2022-03-25

Solicitation Closes 2022-05-11 13:30

Solicitation No CRFQ

0805 PTR2200000007 Version

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Customer Code: VS0000004719

Vendor Name: Rohrer Enterprises, Inc. DBA Rohrer Bus Sales

Address: 1515 State Road PO Box 100

Street:

City: Duncannon

State: PA Country: USA

Principal Contact: David M Clawson, Senior Vice President Sales

Vendor Contact Phone: 540-729-3751 Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline 304-558-0067

david.h.pauline@wv.gov

Vendor

Signature X

Date Printed: Mar 25, 2022

FEIN# 23-2059976

DATE 5-9-22

Zip: 17020

All offers subject to all terms and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-002 2020/05

ADDITIONAL INFORMATION

Addendum No. 3

To respond to vendor technical questions, see attached.

Moving Bid opening date to May 11, 2022 at 1:30 pm

No other changes.

INVOICE TO	SHIP TO
PUBLIC TRANSIT DIVISION OF BLDG 5 RM 663 1900 KANAWHA BLVD E	PUBLIC TRANSIT DIVISION OF KANAWHA VALLEY REGIONAL TRANSPORTATION AUTHORITY
CHARLESTON WV US	1550 FOURTH AVE CHARLESTON WV US

	ım Ln Desc	Qty	Unit Issue	Unit Price	Total Price
158"	Wheelbase Cutaway Vehicle Paratransit	0.00000	EA		Total i fice

Comm Code	Manufacturer	Specification	Model #	
25101502				

Extended Description:

158' Wheelbase Cutaway vehicle with 12 fixed seats and wheelchair lift and securement.

SCHEDULE OF EVENTS

<u>Line</u>	Event	Event Date	
1	Technical questions due by 10:00 am	2022-03-22	

	Document Phase	Document Description	Page 3
PTR2200000007	Draft	158" Wheelbase Cutaway Vehicle Paratransit	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ PTR220000007 Addendum Number: 3

The purpose of this addendum is to modify the solicitation identified as ("PTR22*07") to reflect the change(s) identified and described below.

Applicable	Addendum	Category:
------------	----------	-----------

\boxtimes	Modify bid opening date and time
\boxtimes	Modify specifications of product or service being sought
\boxtimes	Attachment of vendor questions and responses
	Attachment of pre-bid sign-in sheet
	Correction of error
	Other

Description of Modification to Solicitation:

- 1. To respond to Vendor Technical questions, see attached
- 2. To modify specifications which are identified in the attached responses, see attached.
- 3. To move bid opening date to May 11, 2022, at 1:30 pm.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

CRFQ PTR2200000007

158" Wheelbase Cutaway Vehicle Paratransit Vendor Questions and Agency Answers

Question 1) Our manufacturer, Eldorado by Forest River has requested bid be delayed at minimum of 30 days. The Forest River backlog is currently near 10,000 buses. The factory is currently receiving only 300 chassis a month from Ford and Freightliner combined. If chassis supplies do not improve, the backlog will take 30 months to complete. Most probably, the WV chassis will be Model Year 24.

Answer: The Division will postpone the bid opening to be delayed by 45 days.

Question 2) Section 15 and 15.a Please consider removing Section 15 and 15.a from this bid specification. FTA does not allow "preferences" regarding states, and this is an FTA funded contract.

Answer: FTA does not allow vendor preferences on any FTA funded contract, so Section 15 and 15a do not apply

Question 3) Request for change: The new bid specification still refers to Classes A through D in Section 2.2. Shouldn't it reference Class A only?

Answer: The Division is only asking for Class A.

Question 4) Request for Clarification: This sections references "one of the two proposed floor plans" as defined in the specifications, but only one floor plan is provided. Please clarify that the floor plan included is the desired floor plan.

Answer: The included floor plan is the only floor plan the Division is seeking.

Question 5) Request for approved equal: Please accept our manufacturers standard build construction. Please see included documentation labeled "Bus Body Details"

Answer: The Division will accept Glaval Bus's standard build construction.

Question 6) Request for approved equal: Please accept our manufacturers standard undercoating.

Please see included documentation labeled "Undercoating"

Answer: The Division will accept as equal ZTech – Z Guard 9902 Star undercoating

Question 7) Request for clarification: These sections mention that the desired lift must have a 1000# capacity and a 37" wide platform. The marketplace does not have a lift that provides both specifications. Please clarify which the State wants, a 1000# lift or a 37" wide platform with 800 lb lifting capacity.

Answer: The Division is requiring a 1000 lb. lift.

Question 8) Request for approved equal: Please accept that our window in the passenger door will be AS-2 not AS-3.

Answer: The Division will accept the passenger door window as a AS-2.

Question 9) Request to Delete Power Drivers Window: During this time of chassis availability shortages, this option will require the chassis to be special ordered from Ford, thereby further delaying their production.

Answer: Since the power driver window will cause an extra delay, the Division will delete this request.

Question 10) Request for approved equal: Please accept an electrically heated first entry step as equal.

Answer: The Division will accept the electrically heated first entry step as equal.

Question 11) Request for approved equal: Please accept our standard light fixture. Please see included documentation labeled "Passenger Compartment Lights"

Answer: The Division will accept Optronics LED lighting as equal.

Question 12) Request for approved equal: Please accept the non-LED Ford OEM standard front turn signals as equal.

Answer: The Division will accept as equal the Ford OEM standard non-LED front turn signal.

Question 13) Request for Clarification: This section calls for two double integrated child restraint (ICS) seat. You may have both seating positions equipped with ICS (total of 4 per bus) or just one seat position (total of 2 per bus). Which do you prefer?

Answer: The Division is asking for two Integrated Child Restraint seats (ICS) per vehicle.

Question 14) Please remove the requirement for the seatbelt extension for the driver seat. The driver seatbelt is Ford OEM and they do not offer an extension.

Answer: The Division will remove the request of a seat belt extension for the driver's seat.

Question 15) Request for Clarification: This section specifies 6" between each wheelchair space. Can a floor plan to depict this be provided? The floor plan within the specs does not show any space between the wheelchair positions.

Answer: The Division is just asking for enough room between the wheelchair spaces for the driver to have room to properly secure the wheelchair.

Question 16) Request for clarification: Is the requested L Track layout to be perpendicular to the wall or full length of the bus? The floor plan provided shows side by side wheelchair positions, which would indicate perpendicular L Track. Please clarify.

Answer: The Division is asking for the L-Track to be perpendicular for the side-by-side wheelchair positions.

Question 17) Request for clarification: 3.19.15 refers to Watch Your Step Logo Tiles from the floor covering manufacture but item 3.39.7 calls for a Watch Your Step decal. There is a significant difference between the two. Please clarify which is required and please provide a photo if available.

Answer: The Division is asking for the tiles.

Question 18) Request for clarification: Please clarify where stanchions are required "elsewhere within the vehicle".

Answer: The Division will remove elsewhere within the vehicle.

Question 19) Request for correction: Please change the 6.8L engine noted in this section and replace it with the 7.3L engine. Ford no longer offers the 6.8L engine

Answer: The Division is asking that the engine be a minimum of a 6.8L Engine.

Question 20) Request for clarification: How is the 32" turning radius noted in this section measured? There are two different ways to express a turning radius.

Answer: The Division will accept the measurement as to what industry standards are.

Question 21) Will the State consider removing the \$10 per day liquidated damages outlined in this section. We are concerned that this crucial paperwork in the hands of a freight driver

could lead to lost documents, and further delay.

Answer: The Division will remove the \$10 per day liquidated damages.

Question 22) This section states only chassis increases can be requested. As is the case in many

industries, our industry is experiencing historic component price increases and delays. This volatility is beyond what can be reasonably foreseen. Will the State consider

allowing body and option increases during the contract?

Answer: Escalation Clause: In the event of a significant price increase of material or rental equipment planned for use on a public improvement project, that occurs during

the time between bid submission and contract award, and that is not the fault of the Vendor, the contract sum, or contract requirements, may be equitably adjusted by change order in accordance with the procedures specified in the relevant procurement law or contract documents. A change in price is considered significant if the price of the material or rental equipment increases by 20% or more between the date of bid submission and the date of contract award. The total amount of all change orders issued to account for price increases under this Escalation Clause may not exceed 10% of the total contract price. Any

request for a price increase under this clause must be supported by price quotes included with the Vendor's bid for the materials or rental equipment for which a change is being sought; invoices showing amounts actually paid for the materials

or rental equipment; and any other evidence that supports the increase request. The quotes included in the bid must be the quotes that Vendor actually relied on when submitting its bid and both the quote and the amount ultimately

paid must have resulted from an arm's length transaction with an unrelated party. The Vendor must also show that the significant price increase would have been incurred if the owner had purchased the material or rental equipment directly from

the supplier.

Question 23) Will the Division allow the delivery time to be extended to 30 months?

Answer: The Division will allow up to 30 months delivery time on vehicles.

Question 24) Section 3.19.15.3rd paragraph revise to: There shall be a yellow or white insert strip with

silicon carbide, aluminum oxide and quartz particles adhered in the aluminum profile channel. The combination of silicon carbide aluminum oxide and quartz particles in the

strip on the aluminum will maximize slip resistance on the step edges.

Answer: The Division will allow this revision.

Question 25) Section 3.19.15 "Watch Your Step logo tiles are listed as being a minimum of 2.25mm, will the Division accept the minimum thickness of 2.20mm of all flooring material, not a

combination of flooring and backing.

Answer: The Division will accept this request.

Section 3.19.19 states the wear layer shall be constructed with silicon carbide particles Question 26)

and shall not contain aluminum oxide or quartz. Will the Division accept the removal of "shall not" and replace with shall? This aluminum oxide and quartz provides added slip resistance for passenger's safety, not only dry but also under wet conditions, plus

durability over the lift of the vehicle.

The Division will accept the addition of aluminum oxide and quartz to the wear layer. Answer:

Section 3.19.19 Currently states: All letters shall be digitally printed on the fiberglass Question 27)

reinforced grid. The wear layer shall be transparent. Will the Division accept all letters to

be printed or die cut from match floor material?

The Division will accept the lettering for Section 3.19.19 to be die cut or printed. Answer:

Question 28) Sections 3.29.3 & 3.29.4 will the Division consider changing the floor thickness of 1/8" to

2.2mm on all flooring material not a combination of flooring and backing?

Answer: The Division will change the floor thickness to 2.2mm.

Section 3.19.15 2nd paragraph states: The step nosing shall be an extruded anodized Question 29)

aluminum profile that is 2.76" wide and shall have ribbed areas on the aluminum profile to increase slip resistance. Will the Division allow an extruded anodized aluminum profile that is 3.00" wide and shall have a 2.5" yellow PVC safety flooring insert for

added visibility and increase slip resistance?

Answer: The Division will allow this request.



Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Centralized Request for Quote

Proc Folder:

1009231

Doc Description: 158" Wheelbase Cutaway Vehicle Paratransit

Reason for Modification:

Addendum No. 4

Proc Type:

Central Master Agreement

Date Issued 2022-04-19

Solicitation Closes

2022-05-11 13:30

CRFQ 0805

Solicitation No

PTR2200000007

Version

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Customer Code:

VS0000004719

Vendor Name: Rohrer Enterprises, Inc. DBA Rohrer Bus Sales

Address: 1515 State Road PO Box 100

Street:

City: Duncannon

State: PA

Country: USA

Zip: 17020

Principal Contact: David M Clawson, Senior Vice President Sales

Vendor Contact Phone: 540-729-3751

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline 304-558-0067

david.h.pauline@wv.gov

Vendor Signature X

FEIN# 23-2059976

5-9-22 DATE

All offers subject to all terms and conditions contained in this solicitation

Date Printed: Apr 19, 2022

Page: 1

FORM ID: WV-PRC-CRFQ-002 2020/05

ADDITIONAL INFORMATION

Addendum No. 4

To respond to vendor technical question . to remove from Specifications Section 9.3 Bid Requirements, see attached.

Bid opening date remains May 11, 2022 at 1:30 pm

No other changes.

INVOICE TO	SHIP TO	
PUBLIC TRANSIT DIVISION OF	PUBLIC TRANSIT DIVISION OF	
BLDG 5 RM 663	KANAWHA VALLEY REGIONAL TRANSPORTATION AUTHORITY	
1900 KANAWHA BLVD E CHARLESTON WV US	1550 FOURTH AVE CHARLESTON WV US	

_ine	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
I	158" Wheelbase Cutaway Vehicle Paratransit	0.00000	EA		- Otal I IICC

Comm Code	Manufacturer	Specification	Model #
25101502			

Extended Description:

158' Wheelbase Cutaway vehicle with 12 fixed seats and wheelchair lift and securement.

SCHEDULE OF EVENTS

<u>Line</u>	Event Technical questions due by 10:00 am	Event Date	
1		2022-03-22	

	Document Phase	Document Description	Page 3	
PTR2200000007	Draft	158" Wheelbase Cutaway Vehicle Paratransit		

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ PTR220000007 Addendum Number: 4

The purpose of this addendum is to modify the solicitation identified as ("PTR22*07") to reflect the change(s) identified and described below.

Appl	icable	Addendun	a Category:
			category.

	Modify bid opening date and time
\boxtimes	Modify specifications of product or service being sought
\boxtimes	Attachment of vendor questions and responses
	Attachment of pre-bid sign-in sheet
	Correction of error
	Other

Description of Modification to Solicitation:

- 1. To respond to Vendor Technical questions, see attached
- 2. To modify specifications to remove Section 9.3 Bid Requirements
- 3. Bid opening date remains May 11, 2022, at 1:30 pm.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

CRFQ PTR22*07

158" Wheelbase Cutaway Vehicle Paratransit

Vendor Technical Question and response.

Question 1. On the Bid Request Documentation Item # 9.3 states that There are to be Two (2) bids in binder form – one (1) marked for DPT.

If we are submitting these Bids through wvOasis, is this line item still applicable?

Answer1. No, Section 9.3 Bid Requirements has been removed, please disregard.

LEGENDARY RELIABILITY | CONSISTENT | PERFORMANCE

www.eldorado-bus.com



Light, quiet, and strong, the ElDorado Advantage offers a stylish fully integrated steel cage body constructed with state of the art, light weight materials making it the ideal and economical choice for any retail, transit, or commercial application. Excellent handling and a variety of options offer passenger comfort with a fast return of your initial investment.

Your Competitive Advantage.

- > Designed to be lightweight without sacrificing safety, quality, or ride performance
- > Offered in 20' 27' models to accommodate non-CDL to large scale transit and retail needs
- ➤ Many 29 passenger to 14 passenger non-CDL options to choose from
- > From modular wiring systems, and easy-to-clean finishes to antimicrobial fabrics, we strive to find every possible way to ease your maintenance workload
- > ElDorado's ISO9001 quality program ensures 300 components are cycle and function tested before we ship your bus
- Meets or exceeds ADA and FMVSS requirements including FMVSS220 and 7 year/200,000 mile Altoona durability

*Varies based on your state and the options selected. *Photo shown with optional equipment.



	CHASSIS EQUIPMENT FORD
Engine	6.2L Gas 6.8L Gas
Transmission	Electronic 6-Speed Auto
Fuel Tank	40 Gallon 55 Gallon
Brakes	Power w/4 wheel anti-lock
Alternator	225 Amp. 240 Amp. _(6.2L Only)

Company of the Compan	The second second		
CLVNIDVDD	DODY	FOULE	
STANDARD	RUUV	3 5 6 1 8 E 8 D 3 V. E 10	ΑП
	DUDI	LGUIFNE	и .

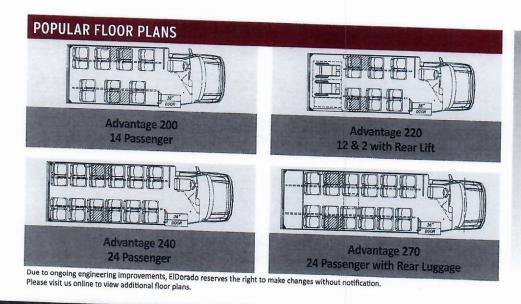
- Floor Rubber, Gerflor Anthracite
- Driver & Entry Door Stanchion w/ Modesty Panel
- EP4 Electrical System
- •5/8" Plywood Sub-flooring
- LED Interior Dome lights (3)
- •LED Stop/CMBL/Turn/Backup Lights
- •Tinted 36"x 36" Top Vented Windows
- Rear-View Flat/Convex Mirrors
- Dual Battery Electrical System
- Fiberglass Molded Front and Rear Caps
- Removable Molded Skirts
- Zinc Phosphate Rust Proofing

POPULAR OPTIONS

- Front or Rear Lifts
- •3/4" Plywood Floor
- Fabric Interior
- •AM/FM/BT(※) Radio
- Backup Alarm
- Backup Camera
- Battery Compartment
- Colored Flooring
- Interior Mirrors
- Rear Heater

- Rear In-Wall A/C
- Skirt Battery
- Compartment
- Rear Luggage Wall
- Reverse Backup Sensors
- Roof Escape Hatch
- Spare Tire
- Stainless Steel Wheel Covers
- Tinted 36"x 36" Solid Pane Windows

MODEL	200				
Maximum Passenger Capacity		220	240	250	270
Interior Height at Center Aisle	17	21	25	28	
ricigit at Center Aisie	79"	79"	79"	79"	29
Interior Width	74" RSD	74" RSD	74" RSD	74" RSD	79" 74" RSD
Electric Entrance Door	91"	91"	91"	91"	
Overall Height	30"	30"	30"	30"	91"
Overall Length with Bumper	115"	115"	115"	115"	30"
Overall Width with Number	259"	278"	296"	303"	115"
Overall Width with No Mirrors	96"	96"	96"		328"
Wheelbase Ford	138"	158"	176"	96"	96"
GVWR	11,500	12,500		190"	208"
		14,000	14,500	14,500	14,500
*Varies based on state and option selected. **Various pa					



AUTHENTIC, AUTHORIZED.

PLEASE PURCHASE ELDORADO PRODUCTS & ACCESSORIES FROM AUTHORIZED DEALERS REQUIRED TO MEET OUR HIGH CUSTOMER SERVICE & SUPPORT STANDARDS.

V22-3-1	A	Revised:	3/1/20	22

FR SHORT VIN:

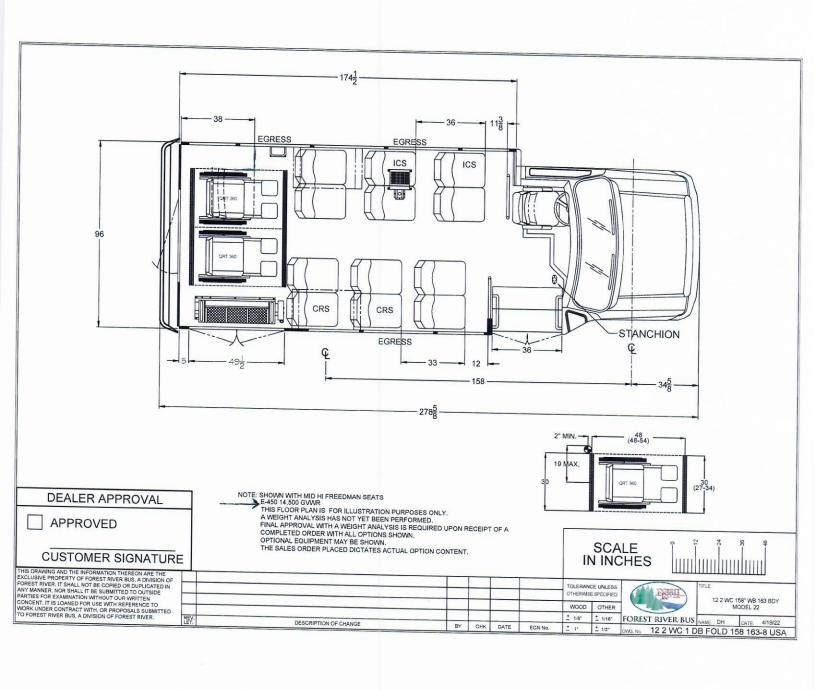
ADVANTACE 22 450 LAG				
ADVANTAGE 22 158" WB E-450 7.3L Premium Gas Engine W/240 Amp Ford Alt	E	1008	C	1
SPECIAL INSTRUCTIONS OR NOTES				1
2 sets 11x17 laminated as-built schematics - Rohrer to complete (3.16.1)	7	NOTE	7 [1
ROHRER responsibility: Vinyl graphics- stripes, stars, agency name and number	1		1	
on 4 sides, tire chains, jack & lug wrench, jumper cables.		NOTE		4
SPECIAL BUILD OPTIONS		NOTE	J L	1
Front end alignment with caster & camber kit. Include documentation.	0.7			1
Perko Vents on Front Hood	ST		+	1
Exterior screws and bolts to be stainless steel	ST	99	+	2
Black Rubber Rub Rail ilo Standard.	ST	99	+	1
	ST	99	\vdash	1
White reflective tape around all egress windows and rear door window	ST	99		1
Angel Tray Vulcan 12 Series Comers Out 1				
Angel Trax Vulcan 12 Series Camera System with 6 Cameras & GPS Antenna	ST	99		1
WARRANTY Optional Eldorado 3 Year / 36,000 Mile Limited Warranty				
ELECTRICAL COOTES	05	STD		1
ELECTRICAL SYSTEM Intermotive Flex Tech Electrical System				
SIDEWALL / READWALL / OFFI INC.	05	STD		1
SIDEWALL / REARWALL / CEILING Sidewall: Grey FRP				
Rearwall: Grey Seaspray Fabric	05	STD		1
Ceiling: Grey Seaspray Fabric	05	STD		1
Driver Area: Grey Padded Vinyl	05	STD		1
FLOORING - WHITE NOSING IS STANDARD	05	STD		1
5/8" MarineTech Plywood Floor	05	2202		4
Gerflor Std Graphite Black Under Seats, Anthracite Grey in Aisle & Steps.	ST	2202 99	H	1
Gernor Steppus Extruded Anodized Aluminum step posing with Vollage Income	ST	99	\vdash	1
Gerflor "Watch Your Step" Printed in Riser	ST	99	\vdash	3
CHASSIS	01	33		
Front Mud Flap (1), Passenger Side Only (to be used with Running Board) - NOT				
AVAILABLE ON FORD TRANSIT	05	2340		1
Heavy Duty Anti-Slip Aluminum Running Board on Driver Side (Large) (NOT				
AVAILABLE ON FORD TRANSIT)	05	2623		1
Mor-Ryde RS Suspension (SUBJECT TO WEIGHT ANALYSIS APPROVAL)	05	99		1
Galvanized Belly Metal (SUBJECT TO WEIGHT ANALYSIS APPROVAL) Exterior Mirror Set, Remote/Heated, Ford	05	2275		1
Romeo Rim Rear Bumper	05	2444		1
Spare Tire and Wheel - Ford E-Series & Chevy Chassis	05	2156		1
Valve Stem Extender Inner Dual Rear Wheel, pair	05	8004		1
	05	8606		1
Galvanized Steel Entry Step Lower Sides Only - Does NOT Include Upper Sides & Header				
Metal Locking Door for Fuel Fill	05	22388		1
ENVIRONMENTAL CONTROL	05	22045		1
TRANS/AIR AIR CONDITIONING SYSTEMS				4
DUAL COMPRESSOR SYSTEMS CEILING MOUNT EVAPORATOR				1
				1
1 = TA77 INDEPENDENT OF OEM DASH A/C W/LARGER COMPRESSOR				
**RECOMMENDED BY A/C MFR				1
TA773 SUPER 80K - TA77 EVAP - SMC3L COND - 13.4 C.I.D. COMP <u>UPGRADE TO TA774C OR TA77R90 FOR HOT CLIMATES</u>				
(SELECT CHASSIS/ENGINE BELOW)				
				1
THE THE PART OF TH	05	10479		1
HEATERS Hot Water Heater, 35K BTU 3 Speed Low Profile				1
MISCELLANEOUS	05	8044		2
Heater Booster Pump - does not include electric valves				1
	05	20088		1
Defroster Fan - Mount Location: Right side bulkhead toward entry door ELECTRICAL	05	20092		1
Door Ajar Buzzer on Rear Door				
Door Ajar Warning on Wheelchair Door - Buzzer and Light in Driver Area	05	22079		1
Buzzer and Light in Driver Area	05	22082		1

Revised: 3/1/2022

ORDER#:				
FR SHORT VIN:				
Window Ajar Alarm Buzzer on Egress Window, each	7 05	8679	ТТ	3
Stainless Steel Battery Box & Tray IS 304 REQUIRED 2	05		+	1
Light in Engine Area	05		+	1
Heated Entry Step, Electric	05	22098	+	1
Laminated Wiring Schematic ***AS BUILT*** ON ELECTRICAL PANEL DOOR Wiring Diagram "AS BUILT" ON USB Flash Drive	05	22101	\Box	1
Lift Master Power Switch on Dash. Also Activates Rear AmberTurn Signals to Flash		STD		1
EXTERIOR LIGHTS	ST	99		1
Surface Mount LED Entry Door Exterior Light CED Object Control of the				
Surface Mount LED Entry Door Exterior Light - STD Choose Optional Below or Special builds LED Rear Center Mount Brake Light, Rectangular	05	STD		1
LED Mid-Ship Turn / Marker Lights	05	20136		1
Independent RED Brake & AMBER Turn Signal Lights	05	20138		1
INTERIOR LIGHTS	05	20139		1
Additional Interior LED Dome Lamp - Each				1
Door Activated Interior Lights	05	8041		3
4 Dome Lights on SS, 3 on CS	05	8810		1
AUDIO / VISUAL	05	NOTE		1
Jensen JHD1130 AM/FM/RBDS/WB Radio With Clock & 4 Speakers				1
Additional Speaker(s), Each	05	99		1
7 Interior Speakers Total. 6 in Passenger Cabin. 1 in Driver Door	05	20157		3
DOORS / HATCH / WINDOWS	05	NOTE		1
Electric Entry Door is Standard. Add Option #2056 if Manual is Desired				
Passenger Door Electric (standard)	0.7			
Passenger Door 36" ROUGH OPENING (STANDARD)	05	20163		1
Exterior Passenger Entrance Door Key	05	2063 8133	+	1
Rear Door, (1) Window - Standard Left Hand Hinge	05	8016	\vdash	1
Additional Window for Rear Door	05	8682		1
Twin Windows Either Side of Rear Door	05	20175	\vdash	1
Roof Hatch - Transpec 1070 Series Dual Purpose Safety Vent II	05	20179	\vdash	1
Extra Egress Window(s) Total Number of Egress Windows: 3 (2 on SS)	05	20188		1
LUGGAGE RACK / STORAGE	05			-
LUGGAGE RACK / STORAGE Driver Storage in Cab Overhead	05			1
LUGGAGE RACK / STORAGE Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment		20188		1
LUGGAGE RACK / STORAGE Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment PARATRANSIT OPTIONS	05	20188		1 1 1
Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment PARATRANSIT OPTIONS Double W/C Doors w/ Windows, LED Interior Light Leaf Spring LED Exterior Lighting	05 ST	20188 20191 99		1 1 1 1 1
Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment PARATRANSIT OPTIONS Double W/C Doors w/ Windows, LED Interior Light, Leaf Spring, LED Exterior Lighting IS THE LIFT IN THE FRONT OR REAR OF THE UNIT? REAR	05	20188		1 1 1 1 1
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Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment PARATRANSIT OPTIONS Double W/C Doors w/ Windows, LED Interior Light, Leaf Spring, LED Exterior Lighting IS THE LIFT IN THE FRONT OR REAR OF THE UNIT? BRAUN LIFTS Braun Century NCL 1000 3454HB-2 1000# (34"x54") *N/A FRONT LIFT 138/139"WB Seat Belt on Braun Lift - Installed	05 ST 05	20188 20191 99 20206		1 1 1 1 1 1 1 1
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Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment PARATRANSIT OPTIONS Double W/C Doors w/ Windows, LED Interior Light, Leaf Spring, LED Exterior Lighting IS THE LIFT IN THE FRONT OR REAR OF THE UNIT? BRAUN LIFTS Braun Century NCL 1000 3454HB-2 1000# (34"x54") *N/A FRONT LIFT 138/139"WB Seat Belt on Braun Lift - Installed LIFT FAST IDLE WITH 403 INTERLOCK Intermotive Gateway 508-F Ford E or 517-F Transit Fast Idle with Lift Interlock SureLok W.C. Securement Kits, Accessories	05 ST 05 05 05	20188 20191 99 20206 20230 8801 99		1 1 1 1 1 1 1 1 1 1 1
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Driver Storage in Cab Overhead Ceiling Mounted Coat Hook Hold-Open For Driver Storage Compartment PARATRANSIT OPTIONS Double W/C Doors w/ Windows, LED Interior Light, Leaf Spring, LED Exterior Lighting IS THE LIFT IN THE FRONT OR REAR OF THE UNIT? Braun Century NCL 1000 3454HB-2 1000# (34"x54") *N/A FRONT LIFT 138/139"WB Seat Belt on Braun Lift - Installed LIFT FAST IDLE WITH 403 INTERLOCK Intermotive Gateway 508-F Ford E or 517-F Transit Fast Idle with Lift Interlock SureLok W.C. Securement Kits, Accessories FE200750-16 16" Quick Strap (each) Q Straint W.C. Securement Kits, Accessories Q10007 - 4 QRT 360 Retractr Tie Down L track & Q8-6326-A1 Comb-Lap/Shldr Miscellaneous Accessories Priority Seating Sign **Required for ADA Compliance** Wheelchair Decal (International Symbol of Accessibility) Each DECAL: STAND CLEAR FOR LIFT OPERATIONS ****Mount this decal on Forward Lift Door under Window**** Priority signs to be installed on First 2 Rows of Seats Each Side SAFETY OPTIONS 5 Lb Fire Extinguisher 16 Unit First Aid Kit Body Fluid Kit Emergency Triangle Kit	05 ST O5 O5 O5 O5 O5 O5 O5 O	20188 20191 99 20206 20230 8801 99 20239 8826 8104 8105 99 99 NOTE 8089		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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ORDER#:	
FR SHORT VIN:	

THE SHOKE VIN:				
Interior Flat Mirror, 6" x 16" (N/A ON D	OUAL DOOR CHASSIS)	٦ ١	A 202000000000	
Wide Angle Lens 11"x14", Fresnel	TOTAL BOOK CHASSIS)	05	20277	1
Red Light Over Emergency Exit Ea: ON	2 4	05	20278	1
"NO SMOKING" Sign	2 doors, 3 windows	05	8155	5
Yellow "Standee" Line		05	20282	1
Decal "Please Fasten your Seat Belt"		05	8802	1
Decal Vehicle Height Sticker		05	20286	1
Mylar Blanket		05	20289	1
Safety Vest		ST	99	2
		ST	99	1
FASTENAL WHEEL CHOCKS (PAIR)		ST	99	1
wiscellanious decals- Dial 911, warning	g lift doors, frequent stops, railroad crossing	ST	99	1
GRAB RAIL / S	STANCHION / PANELS	0.	55	
Ceiling Grab Rail - Install on Both Side	es	05	00	
Left Hand Entry Vertical Grab Rail - 1 1/	4"	05	99	1
1 1/4" Dual Entry Grab Rails Parallel to	Entrance Steps (both sides)	0.5	STD	1
Stanchion and Modesty Panel at Entry [Door	05	8130	1
Stanchion and Modesty Panel Behind D	rivor		STD	1
Padding on Stanchion - Gray Por 40" N	Max Length Each (note location(s) below)	05	20301	1
Add Tinted Plexiglass Upper Panel		05	20304	3
Vertical Stanchion at Top of Stepwell	LOCATION: driver	05	8146	1
Pad Stanchions Above Modesty Pane	. See Floor Plan.	ST	99	1
- as ottationions Above Modesty Pane	is on All Assemblies	05	NOTE	1
SHIELD Realiner/CM95IV Plate	NG - DRIVER			1
SHIELD Recliner(GM&Ford), RH Arm, 4	Position Lumbar, Mesh Pocket	05	2064	1
Admik o way briver Seat Power Base		05	2205	1
FREEDMAN SHIEL	D DRIVER SEAT FABRICS			1
Driver Seat Cover - Level 4 Ice Pinstripe	e; Mor-Care; Leathermate	05	2043	1
SEATING	G - PASSENGER	00	2010	1
STD F	RIGID SEATS			1
Mid High Double Seat		05	8067	4
FOLDA	AWAY SEATS	00	0007	
Foldaway Seat - Mid-High Notch Back D	ouble AM (non-wheelwell)	05	2336	1
ICS & 3POINT SEATS **REQUIRES WI	EIGHT ANALYSIS FOR APPROVAL **	05	2336	1
Double Seat with (1) Integrated Child Se	at and (1) Mid High Back 2nd Soct	05	2001	1
PASSENGE	R SEAT FABRICS	05	2331	2
Seat Cover - Level 4 Ice Pinstripe; Mor-C	Care: Leathermete			. 1
SEA ⁻	T OPTIONS	05	2074	14
ABS Seat Backs Per Person (Mid-High Rigid	and Note had Fall O. 1			1
Anti-Vandal Grab Handle, Black Ea on:	and Notchback Folds Only)	05	2664	12
Black US Armrest - Each - on:	all but last row of seats	05	2311	10
	all aisle seats SPECIAL BUILD OPTIONS	05	2077	7
ABS Seat Backs on All Seats Except IC	SPECIAL BUILD OPTIONS			1
		ST	99	1
Seat Belt, Petrostable ** NOT ***	AT BELTS			1
Seat Belt, Retractable ** NOT AVAILABL **ORDER USR BELTS		05	2087	12
Seat Belt, Freedman USR Retractable (P	Per Person)	05	2202	
Seat Belt Extension, 12" FOR STANDAR	D SEAT BELTS		2282	2
		05	2250	5



DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

David M Clawson, Senior Vice President Sales
(Name, Title)
David M Clawson, Senior Vice President Sales
(Printed Name and Title)
1515 State Road PO Box 100 Duncannon PA 17020
(Address) 1800-735-3900/540-729-3751
(Phone Number) / (Fax Number) dclawson@rohrerbus.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

Rohrer Enterprises, Inc. DBA Rohrer Bus Sales	
(Company) Senior Vice President	dent Sales
(Authorized Signature) (Representative Name, Title)	
David M Clawson, Senior Vice President Sales (Printed Name and Title of Authorized Representative) 5/9/22	
(Date)	
1800-735-3900/540-729-3751	
(Phone Number) (Fax Number)	

MANDATORY BID FORM – MUST BE SUBMITTED WITH BID

Location(s) of Technical Service Representative(s) closest or in the State of West Virginia

Name: Ryan Renninger	**
Address:1515 State Road PO Box	100
Duncannon, PA 17020	
Telephone: <u>800-735-6700</u> or 717-95	57-4774
Name: Teresa I Clawson	
Address: 2075 B West Main Street	
Waynesboro, VA 22980	
Telephone: 540-256-2039	
Location(s	s) of Parts Distribution Center(s) the State of West Virginia
Name: Rohrer Bus Sales	
Address:1515 State Road PO Box	100
Duncannon, PA 17020	
Геlephone: <u>800-735-3900/717-957-</u>	4884
Name: N/A	
Address:	
Telephone:	

CERTIFICATION FOR AIR & WATER POLLUTION MANDATORY BID FORM – MUST BE SUBMITTED WITH BID

The Vendor certifies that the vehicles proposed:
ARE in compliance with the regulations in 40 CFR Part 85, 40 CFR Part 86, 40 CFR Part 600, Clean Water Act and the air/water pollution criteria established by the Environmental Protection Agency of the United States Government.
ARE NOT in compliance with the regulations in 40 CFR Part 85, 40 CFR Part 86, 40 CFR Part 600, Clean Water Act and the air/water pollution criteria established by the Environmental Protection Agency of the United States Government.
5-9-22 Date
Authorized Signature
Senior Vice President Sales Title
Rohrer Enterprises, Inc. DBA Rohrer Bus Sales Company Name

DISADVANTAGED BUSINESS ENTERPRISE VENDORS/ MANUFACTURERS CERTIFICATION

MANDATORY BID FORM - MUST BE SUBMITTED WITH BID

(Check	appro	priate	statement)
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	The Vendor, <u>if a transit vehicle manufacturer</u> , hereby certifies that it has complied with the requirements of 49 CFR Section 26.49 by submitting an annual DBE goal to the Federal Transit Administration (FTA). The goal has either been approved or not disapproved by FTA.
×	The Vendor, <u>if a non-manufacturing supplier</u> , hereby certifies that the manufacturer of the transit vehicle to be supplied has complied with the above-referenced requirement of 49 CFR Section 26.49.

5-9-22	2
Date	DIAL.
Authoriz	zed Signature
Senior	Vice President Sales
Title	
Rohrer	Enterprises, Inc. DBA Rohrer Bus Sales
Compan	y Name



U.S. Department Of Transportation Federal Transit Administration

Headquarters

East Building, 5th Floor – TCR 1200 New Jersey Avenue, SE Washington, DC 20590

August 31, 2021

Donall Hasty
Forest River: Elkhart Coach, Glaval Bus,
Starcraft, StarTrans Bus, Van, ElDorado-KS
Lone Star Van, Champion Bus
2367 Century Drive
Goshen, IN 46528

Re: TVM DBE Goal Concurrence/Certification Letter – Fiscal Year 2022

Dear Mr. Hasty:

This letter is to inform you that the Federal Transit Administration's (FTA) Office of Civil Rights has received Forest River's Disadvantaged Business Enterprise (DBE) goal and methodology for FY 2022 for the period of October 1, 2021–September 30, 2022. This goal submission is required by the U.S. Department of Transportation's DBE regulations at 49 CFR Part 26 and must be implemented in good faith.

We have reviewed your firm's FY 2022 DBE goal and determined that it complies with DOT's DBE regulations. Your firm is eligible to bid on FTA-funded transit contracts. This letter or a copy of the TVM listing on FTA's website may be used to demonstrate your firm's compliance with DBE requirements when bidding on federally funded vehicle procurements.

FTA reserves the right to remove/suspend this concurrence if your DBE program or FY 2022 DBE goal is not implemented in good faith. In accordance with this good faith requirement, you must submit your DBE Uniform Report to FTA by December 1, 2021. This report should reflect all FTA-funded contracting activity for the second period of FY 2021 (i.e., from April 1 to September 30).

Also note that your FY 2023 DBE goal methodology must be submitted to FTA by August 1, 2022. Any significant updates to the program plan must be submitted to FTA as they occur. If you have any questions, please contact the FTA DBE Team via email at FTATVMSubmissions@dot.gov.

Sincerely,

John Day

Program Manager

Office of Civil Rights

Find the Latest Information on the Coronavirus/COVID-19 at FTA's Coronavirus landing page
 United States Department of Transportation

See p. 2

Search

Home / Regulations and Programs / Civil Rights/ADA

Civil Rights/ADA Americans with Disabilities Act (ADA) Title VI of the Civil Rights Act of 1964 Disadvantaged Business Enterprise (DBE)

File a Complaint	with FTA

Equal Employment
Opportunity (EEO)

Training Materials

FAQ

Related Links

- Transit Vehicle
 Manufacturers (TVMs)

 Transit Vehicle Award
- Iransit Vehicle Award
 Reporting Form

Contact Us

Office of Civil Rights
Federal Transit
Administration
1200 New Jersey Avenue,
SE
Washington, DC 20590
United States

Phone: 888-446-4511 J Business Hours: 8:30am-5:00pm ET, M-F

If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

Eligible Transit Vehicle Manufacturers

DBE regulations require FTA recipients to report transit vehicle procurement awards (49 CFR 26.49). Since November 2014, FTA grantees have been required to submit, within 30 days of making an award, the name of the successful bidder and the total dollar value of the contract. Only eligible TVMs may bid on FTA-assisted transit vehicle procurements. Transit vehicle manufacturers that have submitted a goal methodology to FTA that has been approved, or has not been disapproved, at the time of solicitation are eligible to bid (49 CFR 26.49(a)(1)). To remain eligible, TVMs must submit their DBE goal methodology to FTA by August 1 of each year. The following is a list of eligible TVMs:

Transit Vehicle Manufacturer	Address	FY2022 DBE Goal %	DBE Liaison Off Email
A and J Vans, Inc.	333 West Washington Street Valders, WI	1.93%	<u>Travis Pfile</u>
Advanced Wheels of Technology, Inc.	33 Bradley Park Road P.O. Box 908 East Granby, CT	1.90%	Ed Basile
Alexander Dennis	31566 Railroad Canyon Road, Suite 342 Canyon Lake, CA	2.50%	Judy Lovitt
Alstom Transportation, Inc.	1 Transit Drive Hornell, NY	6.69%	James "JD" Danie
ARBOC Specialty Vehicles, LLC	51165 Greenfield Parkway Middlebury, IN	0.80%	J <u>essica Bordeau</u>
Arrival Automotive USA, Inc.	240 Twin Dolphin Drive, Suite A Redwood City, CA	1.86%	Richard Colley
Blue Bird Body Company	402 Blue Bird Boulevard, P.O. Box 937 Fort Valley, GA	1.97%	Linda Belflower
Braun Corporation d/b/a BraunAbility	631 W. 11th Street Winamac, IN	7.00%	Ken Morgel
Brookville Equipment Corporation	175 Evans Street Brookville, PA	2.82%	Ron Rodgers
BYD Coach & Bus, LLC	1800 South Figueroa Street Los Angeles, CA	2.50%	Enid Santiago
CAD Railway Industries Ltd.	155 Boulevard Montreal-Toronto, Lachine, Quebec City, Canada	7.74%	Mikael Levy
CAF USA, Inc.	1401 K Street, NW Washington, DC	3.15%	Tonia Crosby

Transit Vehicle Manufacturer	Address	FY2022 DBE DBE Liai Goal % Email	
Coach & Equipment Manufacturing	130 Horizon Park Drive Penn Yan, NY	2.35%	Kenny Hancharik
Complete Coach Works	1863 Service Court Riverside, CA	1.00%	Amber Lindsey
CRRC MA Corporation	108 Myrtle Street, Quincy, MA	2.62%	Jing Jing
CRRC Sifang America, Inc.	13535 S. Torrence Ave Chicago, IL	2.95%	Haitao "Kevin" Qu
Diamond Aquisition, LLC d/b/a Diamond Coach	2300 W. 4th Street Oswego, KS	1.10%	Kate Strickland
Driverge Vehicle Innovations (Formerly TransitWorks, LLC)	1090 W. Wilbeth Road Akron, OH	0.74%	Ken Richards
ElDorado National California, Inc.	9670 Galena Street Riverside, CA	3.84%	Jake Calvo
Endera Automotive, LLC	804 N. Pratt Street Ottawa, OH	1.37%	Kevin Hernandez
Fenton Mobility Products, Inc.	1209 E. Second Street Jamestown, NY	0.71%	Mary Gabalski
Forest River: - Champion Bus - ElDorado - Elkhart Coach - Forest River Van; Glaval Bus; Starcraft/ StarTrans Bus - Lone Star Van	2367 Century Drive Goshen, IN	2.00%	<u>Donall Hasty</u>
FR Conversions, Inc.	1231 Tech Court Wesminster, MD	0.23%	<u>Jeff Shay</u>
Gillig, LLC	451 Discovery Drive Livermore, CA	1.70%	Chris Turner
Gomaco Corporation	P.O. Box 151 Ida Grove, IA	2.90%	Troy Kruse
GreenPower Motor Company	10737 Laurel Street, Suite 140 Rancho Cucamonga, CA	0.90%	Michael D. Perez
Higher Power Industries	11 Sunny Slope Terrace Yonkers, NY	2.22%	Michael Liebler
Hometown Manufacturing, Inc.	701 North Rail Road Avenue Crandon, WI	3.00%	Jessica Donek
llderton Conversion	P.O. Box 350 High Point, NC	1.00%	Odell McBride
Kawasaki Rail Car, Inc.	29 Wells Avenue, Building 4 Yonkers, NY	7.90%	Tadashi Doi

BUY AMERICA CERTIFICATION ROLLING STOCK BID FORM 4– TO BE SUBMITTED WITH BID

Certificate of Compliance

The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. § 5323(j), as amended and the applicable regulations of 49 CFR 661.12:

Date Authorized Signature
Salvaro
Rohrer Enterprises, Inc. DBA Rohrer Bus Sales Company Name
David M Clawson Name
Traine
Senior Vice President Sales Title
Certificate for Non-Compliance
The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. § 5323(j), as amended, but may qualify for an exception to the requirement consistent and the applicable regulations in 49 CFR 661.7.
NA
Date
2.00
Authorized Signature
Authorized Signature
Authorized Signature Company Name Name
Authorized Signature Company Name

Revised 10/27/14

FEDERAL MOTOR VEHICLE SAFETY STANDARDS CERTIFICATION

MANDATORY BID FORM - MUST BE SUBMITTED WITH BID

The vendor hereby certifies that it shall submit, as required by Title 49 of the CFR, Part 663 - Subpart D, its self-certification information stating that the vehicle(s) will comply with the relevant Federal Motor Vehicle Safety Standards issued by the National Highway Traffic Safety Administration in Title 49 of the Code of Federal Regulations, Part 571.

5-9-22 Date

Authorized Signature

Senior Vice President Sales

Title

Rohrer Enterprises, Inc. DBA Rohrer Bus Sales Company Name



2367 CENTURY DRIVE · GOSHEN, INDIANA 46528 · 1.800.348.7440

FMVSS/CMVSS Compliance Summary 2022

Starcraft Bus, StarTrans Bus, Glaval Bus, Eldorado Bus, Champion Bus, Elkhart Coach- Commercial Product Only

This vehicle conforms to all applicable U.S Federal Motor Vehicle Safety Standards and Canadian Motor Vehicle Safety Standards in effect on the date of

/FMVSS No	Standard Description	Compliance A. II
101	Control Location, Identification and Illumination	Compliance Action Forest River Bus does not alter the OEM controls or displays. Any aftermarket seats and/or controls or displays subject to the standard meet this standard. Test data on file.
102	Transmission Shift Lever Sequence, Starter Interlock & Transmission Braking Effect	Compliance is deferred to the chassis manufacturer.
103	Windshield Defrosting & Defogging Systems	Compliance is deferred to the chassis manufacturer.
104	Windshield Wiping & Washing Systems	Compliance is deferred to the chassis manufacturer.
105	Hydraulic Brake Systems	Test data kept on file for vehicles that have had the frame stretched as here in the frame st
106	Brake Hoses	Vehicles with stretched frames have additional lines installed by chassis modifiers using OEM components. Other vehicles that have had system modifications use OEM or OEM-approved components and are tested for compliance. For Non-stretched vehicles care in the components and are tested for compliance.
108	Lamps, Reflective Devices & Associated Equipment	chassis manufacturer. Forest River Bus does not alter OEM lighting. Additional lighting to include brake, turn, clearance and reverse lamps meet standard. Data on file.
108.1	Alternative Requirements for Headlamps	Forest River Bus does not alter OEM lighting. Compliance is deferred to the chassis manufacturer.
110	Tire Selection and Rim for Motor Vehicles with a GVWR of 4,536kg (10,000 lbs.) or Less	Forest River Bus does not manufacture vehicles with a GVWR of 4,536kg (10,000 lbs.) or Less.
111	Rear View Mirrors	All aftermarket mirrors installed by Forest River Bus meet this standard and DOT regulations. Data on fi
112	Headlamp Concealment Devices	Forest River Bus does not manufacture vehicles with headlamp concealment devices.
113	Hood latch systems	Compliance is deferred to the chassis manufacturer.
114	Theft Protection	Compliance is deferred to the chassis manufacturer.
115	Vehicle Identification Number	Compliance is deferred to the chassis manufacturer.
116	Hydraulic Brake Fluids	Forest River Bus does not alter brake systems. Vehicles with stretched frames have additional fluid added by chassis modifiers using OEM instruction and materials. All other system modifications utilize only OEM- approved fluid. For Non-stretched vehicles compliance is deferred to the chassis manufacturer.
118	Power Operated Window, Partition, and Roof Panel Systems	Compliance is deferred to the chassis manufacturer.
120	Tire Selection and Rim for Motor Vehicles with a GVWR of 4,536kg (10,000 lbs.) or More	Compliance is deferred to the chassis manufacturer.
121	Air Brake Systems	Vehicles with stretched frames have additional lines installed by chassis modifiers using OEM components. Other vehicles that have had system modifications use OEM or OEM-approved components and are tested for compliance. For Non-stretched vehicles compliance is deferred to the chassis manufacturer.
124	Accelerator Control Systems	Forest River Bus does not alter the OEM accelerator system, with the exception of the addition of aftermarket fast idle systems on some vehicles. These systems meet this strandard to the addition of aftermarket fast idle systems on some vehicles.
125	Warning Devices	accordance with instructions. All vehicles manufactured by Forest River Bus that are equipped with aftermarket (3) triangle kit meet this standard.
131	School Bus Pedestrian Safety Devices	All vehicles manufactured by Forest River Bus are not completed to be used as school buses.
135	Light Vehicle Brake System with a GVWR of 3,500kg (7,716lbs.) or Less	Forest River Bus does not manufacture vehicles with a GVWR of 3,500kg (7,716 lbs.) or Less.
201	Occupant Protection in Interior Impact	All vehicles applicable to the standard (under 10,000 lbs.) do not have alterations made that affect the compliance to this standard. Compliance is deferred to the chassis manufacturer.
202	Head Restraints	All vehicles applicable to the standard (under 10,000 lbs.) have seating installed that meets this standard Compliance is deferred to the chassis manufacturer.

		andards and Canadian Motor Vehicle Safety Standards in effect on the date of
203	Impact Protection for the Driver from the Steering Control System	Compliance is deferred to the chassis manufacturer.
204	Steering Control Rearward Displacement	Compliance is deferred to the chassis manufacturer.
205	Glazing Materials	No modifications are made to the OEM Glazing materials. Additional glazing materials meet the standa Data on file.
206	Door Locks and Door Retention Devices	All vehicles manufactured by Forest River Bus (non-buses) that are subject to this standard have no modifications made which affect compliance to the standard. Compliance is deferred to the chassis manufacturer.
207	Seating System	Manufacturer. All seating installed by Forest River Bus meets this standard. Test data on file.
208	Occupant Crash Protection	No alterations are made to the OFM seet belts, six has suit to
209	Seat Belt Assemblies	No alterations are made to the OEM seat belts or associated barchure.
210	Seat Belt Assembly Anchorage	No alterations are made to the OFM seat belts or associated hard
210.1	User-ready Tether Anchorages for Restraint System	No alterations are made to the OEM seat helts or associated baselines a
210.2	Lower Universal Anchorage Systems for Restraint Systems and Booster Cushions	No alterations are made to the OFM seat helts or associated heathers 2
212	Windshield Mounting	installation meet the standard. Data on file. Compliance is deferred to the chassis manufacturer.
213	Child Restraint Systems	Vehicles manufactured by Forest River Bus that are subject to the
213.4	Built-in Child Restraint Systems and Built-in Booster Cushions	the standard. Test data on file.
214	Side Impact Protection with a GVWR of 4,536kg (10,000 lbs.) or	Vehicles manufactured by Forest River Bus that are subject to this standard (under 10,000 lbs.) have seating installed that meets this standard. Test data on file.
216	Roof Crush Resistance	Forest River Bus does not manufacture vehicles with a GVWR of 4,536kg (10,000 lbs.) or Less
217		Forest River Bus does not manufacture vehicles that are subject to this standard.
	Bus Window Retention and Release	No modifications are made to the OEM windows. Additional windows meet the standard. Test data on file,
219	Windshield Zone Intrusion	Compliance is deferred to the chassis manufacturer.
220	School Bus Rollover Testing	All vehicles manufactured by Forest River Bus are not completed to be used as school buses, however, Forest River Bus does test vehicles to meet standard.
221	School Bus Body Joint Strength	All vehicles manufactured by Forest River Bus are not completed to be used as school buses, however, Forest River Bus does test vehicles to meet standard.
222	School Bus Passenger Seating and Crash Protection	All vehicles manufactured by Forest River Bus are not completed to be used as school buses.
225	Child Restraint Anchorage Systems	Vehicles manufactured by Forest River Bus that are subject to this standard (under 10,000 lbs.) have seating installed that meets this standard.
301	Fuel System Integrity	Compliance is deferred to the chassis manufacturer.
301.1	LPG Fuel System Integrity	Compliance is deferred to the chassis manufacturer.
301.2	CNG Fuel System Integrity	Compliance is deferred to the chassis manufacturer.

uracture	,	Standards and Canadian Motor Vehicle Safety Standards in effect on the date of
302	Flammability of Interior Materials	Materials installed in the interior of Forest River Bus products meet the standard. Test data on file.
303	Fuel System Integrity of Compressed Natural Gas Systems	Forest River Bus does not typically produce vehicles with CNG systems. All vehicles equipped with CNG systems exceed the applicability (10,000 lbs. or less) of this standard.
304	Compressed Natural Gas Fuel Container Integrity	Forest River Bus does not typically produce vehicles with CNG systems. All vehicles equipped with CNG systems exceed the applicability (10,000 lbs. or less) of this standard.
305	Electrolyte Spillage and Electrical Shock Protection	Forest River Bus does not produce vehicles that use electricity as propulsion power.
403	Platform Lift System for Motor Vehicles	Forest River Bus does not alter the platform lift system. Forest River Bus install lift system in strict compliance with the manufacturers installation instructions. Forest River Bus meets strength requirements. Test data on file.
404	Platform Lift Installation on Motor Vehicles	Compliance is deferred to the lift manufacturer.
1106	Noise Emissions	Forest River Bus does not alter the OEM Chassis in the area which is stated in the incomplete vehicle documents. Data on file.

Signed

Title: Compliance and Customer Service Manager

Date: 01/04/2022

BID FORM #6 U.S. Comptroller's Debarment List Certification MANDATORY BID FORM – MUST BE SUBMITTED WITH BID

Rohrer Enterprises, Inc. DBA Rohrer Bus Sales	hereby certifies that it
IS or	
IS NOT (specify one) included on the. U.S. GS information available at https://www.sam.gov .	A's debarment and suspension
5-9-22 Date	
Authorized Signature	
Senior Vice President Sales Title	
Rohrer Enterprises, Inc. DBA Rohrer Bus Sales	
Company Name	

MANDATORY BID FORM - MUST BE SUBMITTED WITH BID

CERTIFICATION OF PRIMARY PARTICIPANT REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS

The Primary Participant (applicant for an FTA g	rant or cooperative agreement or set of
contractor for a major third-party contract),	runt of cooperative agreement, or potential
Dohnar Fut	

Rohrer Enterprises, Inc. DBA Rohrer Bus Sales to the best of its knowledge and belief, that it and its principals:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.
- 2. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- 3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (2) of this certification; and
- 4. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

If the primary participant (applicant for an FTA grant, or cooperative agreement, or potential third-party contractor) is unable to certify to any of the statements in this certification, the participant shall attach an explanation to this certification.)

THE PRIMARY PARTICIPANT (APPLICANT FOR AN FTA GRANT OR COOPERATIVE AGREEMENT, OR POTENTIAL CONTRACTOR FOR A MAJOR THIRD-PARTY CONTRACT),

Rohrer Enterprises, Inc. DBA Rohrer Bus Sales , CERTIFIES OR AFFIRMS THE TRUTHFULNESS AND ACCURACY OF THE CONTENTS OF THE STATEMENTS SUBMITTED ON OR WITH THIS CERTIFICATION AND UNDERSTANDS THAT THE PROVISIONS OF 31 U.S.C. SECTIONS 3801 ET SEQ. ARE APPLICABLE THERETO.

, Senior Vice President Sales

Signature and Title of Authorized Official

158" Wheelbase Cutaway Vehicle (Paratransit)

BID FORM #8 MANDATORY BID FORM – MUST BE SUBMITTED WITH BID

VENDOR'S CERTIFICATION OF UNDERSTANDING AND ACCEPTANCE

The Vendor hereby certifies that all Technical Specifications and Contract Terms and Conditions have been carefully reviewed, are fully understood, and shall be adhered to in performance and completion of any contract resulting from this bid.

Date Authorized Signature
Senior Vice President Sales Title
Rohrer Enterprises, Inc. DBA Rohrer Bus Sales Company Name
SPECIFICATION COMPLIANCE
NOTE: <u>Please check</u> if what is offered is not in exact compliance with specifications. Any discrepancies must be listed as an attachment to the bid proposal. Exact dimensions and/or descriptions must be provided as a part of the Vendor's bid proposal when submitted.
Bid proposal submitted meets and/or exceeds all specification requirements.
Bid proposal submitted contains deviations from specification requirements. Detailed descriptions of these deviations have been provided with this bid proposa

5-9-22

158" Wheelbase Cutaway Vehicle (Paratransit)

BID FORM #9 MANDATORY BID FORM – MUST BE SUBMITTED WITH BID

CERTIFICATION OF RESTRICTIONS ON LOBBYING

The undersigned (Vendor, Contractor) certifies, to the best of his or her knowledge and belief, that:

- 1. No Federal appropriated funds have been paid or will be paid by or on behalf of the undersigned, to any person for influence or attempt to influence an officer or employee of any Federal agency, a member of Congress, an officer or employee of Congress, or an employee of a Member of Congress regarding the award of a federal grant, loan (including a line of credit), cooperative agreement, loan guarantee, or loan insurance, or the extension, continuation, renewal, amendment, or modification of any Federal grant, loan (Including a line of credit), cooperative agreement, loan guarantee, or loan insurance.
- 2. If any funds other than Federal appropriated funds have been or will be paid to any person to influence or attempt to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or any employee of a Member of Congress in connection with any application for a federal grant, loan (including a line of credit), cooperative agreement, loan guarantee, or loan insurance, the undersigned assures that it will complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," Rev. 7-97; and
- 3. The undersigned understands that the language of this certification shall be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, sub agreements. and contracts under grants, loans (including a line of credit), cooperative agreements, loan guarantees, and loan insurance.

Undersigned understands that this certification is a material representation of fact upon which reliance is placed by the Federal government and that submission of this certification is a prerequisite for providing a Federal grant, loan (including a line of credit), cooperative agreement, loan guarantee, or loan insurance for a transaction covered by 31 U.S.C. 1352. The undersigned also understands that any person who fails to file a required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The (Vendor, Contractor and accuracy of each state understands and agrees the	tement of its certification and disclosure if any	, certifies or affirms the truthfulness In addition, the (Vendor, Contractor
disclosure.	hat the provisions of 31 U.S.C. §§ 3801, et seq.,	apply to this certification and
5-9-22	WIMM.	
Date	Authorized Signature	
Senior Vice President Sales		
Title		

158" Wheelbase Cutaway Vehicle (Paratransit)

BID FORM #10

CERTIFICATION OF COMPLIANCE WITH FTA'S BUS TESTING REQUIREMENTS

The undersigned (Vendor/Manufacturer) certifies that the vehicle offered in this procurement complies with 49 U.S.C. 5318, as amended by MAP-21, and FTA regulations, "Bus Testing," 49 CFR Part 665.

The undersigned understands that misrepresenting the testing status of a vehicle acquired with Federal financial assistance may subject the undersigned to civil penalties as outlined in the Department of Transportation's regulation on Program Fraud Civil Remedies, 49 CFR Part 31. In addition, the undersigned understands that FTA may suspend or debar a manufacturer under the procedures in 49 CFR Part 29.

	X 1 1/1/1	
Authorized	Signature	
Senior Vice P	esident Sales	
Title		
Rohrer Enterpr	ses, Inc. DBA Rohrer B	us Sales

FEDERAL TRANSIT BUS TEST

Performed for the Federal Transit Administration U.S. DOT In accordance with 49 CFR, Part 665

Manufacturer: ElDorado National-Kansas, Inc.
Model: Advantage

Tested in 7 Year / 200,000 Mile Partial Test

March 2020

Report Number: LTI-BT-R1914-P

The Thomas D. Larson
Pennsylvania Transportation Institute
201 Transportation Research Building
The Pennsylvania State University
University Park, PA 16802
(814) 865-1891

Bus Testing and Research Center 2237 Plank Road Duncansville, PA 16635 (814) 695-3404



FEDERAL TRANSIT BUS TEST

Performed for the Federal Transit Administration, U.S. DOT 1200 New Jersey Avenue, SE Washington, DC 20590

In accordance with 49 CFR Part, 665

Manufacturer: ElDorado National-Kansas, Inc. Manufacturer's address: 1655 Wall Street Salina, KS 67401

Model: Advantage

Tested in 7 Year / 200,000 Mile Partial Test

Report Number: LTI-BT-R1914-P



Quality Authorization

Director, Bus Research and Testing Center

Title

Data

TABLE OF CONTENTS

	Pag	ae
EXECUTIVE S	SUMMARY	_
ABBREVIATIO	DNS AND ACRONYMS	. 4
BUS CHECK-	N	. 5
1. MAINTAIN	ABILITY	. 6
1.1 1.3	ACCESSIBILITY OF COMPONENTS AND SUBSYSTEMSREPLACEMENT AND/OR REPAIR OF SELECTED SUBSYSTEMS	22
4. PERFORM	ANCE	
6. FUEL ECO	NOMY	20
7. NOISE		29
7.1 7.2	INTERIOR NOISE AND VIBRATION TESTS	37
8. EMISSIONS		18

EXECUTIVE SUMMARY

TEST HIGHLIGHTS

The information in this report pertains only to this specific bus, as received from the manufacturer for testing.

The Check-In section of the report provides a description of the bus and specifies its major components. The following table gives the salient specifications.

Manufacturer	ElDorado National-Kansas, Inc.
Model	Advantage
Chassis Make/Model	Ford / E450
Chassis Modified	Yes
Length	27 Foot 9 Inches
Fuel	Gasoline
Service Life	7 Year / 200,000 Mile Partial Test
Number of Seats (including driver)	19 + 2 wheelchairs
Manufacturer-Designated Standing Passenger Capacity	No standees per manufacturer
Gross Vehicle Weight used for testing	14,460
Gross Vehicle Weight Rating	14,500
Mileage at Delivery	382.9
Test Start Date	November 21, 2019
Test Completion Date	January 17, 2020

The measured curb weight was 4,290 lb. for the front axle and 6,120 lb. for the rear axle. These combined weights provided a total measured curb weight of 10,410 lb. There are 19 seats including the driver plus 2 wheelchair positions. There is enough free floor space for 13 standing passengers. However, no standees are permitted according to the manufacturer's placard. Therefore, the gross load represents seated passengers only, for a total of 19 passengers and 2 wheelchair positions. At full declared capacity, gross load is calculated as (19x150) + (2x600) = 4,050 lb. The measured gross vehicle weight is 14,460 lb. There is a potential to overload this bus with the available floor space for standing passengers.

The FTA determined that this bus be tested for Accessibility, Selected Maintainability, Performance, Fuel Economy, Interior and Exterior Noise, and Emissions; the baseline full Bus Testing report for this test is LTI-BT-R1214.

1914-P Page 4 of 53

ABBREVIATIONS AND ACRONYMS

ABS - anti-skid braking system

ABTC - Altoona Bus Test Center

A/C - air conditioner, or air conditioning

AC alternating current

ADA American Disability Act

CDCTS - chassis dynamometer test control system

CVS - constant volume sampling

CW - curb weight (bus weight including maximum fuel, oil, and coolant; but without passengers or driver)

dB(A) - decibels with reference to 0.0002 microbar as measured on the "A" scale

DC - direct current

DIR - test director

DR - bus driver

- Environmental Protection Agency **EPA**

GAWR - gross axle weight rating

- gross vehicle load (150 lb. for every designed passenger seating **GVL** position, for the driver, and for each 1.5 sq. ft of free floor space)

GVW - gross vehicle weight (curb weight plus gross vehicle load)

GVWR - gross vehicle weight rating

HD-UDDS – Heavy Duty-Urban Dynamometer Driving Schedule

- Larson Transportation Institute LTI

- miles per gallon mpg mph - miles per hour

PM - Preventive maintenance

PSTT - Penn State Test Track rpm - revolutions per minute

- Society of Automotive Engineers SAE

SCF - Standard cubic foot

SCH - test scheduler

SA - staff assistant

- seated load weight (curb weight plus 150 lb. for every designed passenger seating SLW position and for the driver)

TD - test driver

TECH - test technician

TM track manager

TP test personnel

Wh - Watt hour

TEST BUS CHECK-IN

I. OBJECTIVE

The objective of this task is to log in the test bus, assign a bus number, complete the vehicle data form, and perform a safety check.

II. TEST DESCRIPTION

The test consisted of assigning a bus test number to the bus, cleaning the bus, completing the vehicle data form, obtaining any special information and tools from the manufacturer, determining a testing schedule, performing an initial safety check, and performing the manufacturer's recommended preventive maintenance. The bus manufacturer certified that the bus meets all Federal regulations.

III. DISCUSSION

The check-in procedure is used to identify in detail the major components and configuration of the bus.

The test bus consisted of an ElDorado National-Kansas, Inc., model Advantage. The bus has a front driver's and passenger door located just behind the front axle, and an ADA handicap accessible fold out lift in the rear of the bus. Power is provided by a gasoline-fueled, Ford Motor Company 7.3 L engine coupled to a Ford Motor Company TorqueShift 6 transmission.

The measured curb weight was 4,290 lb. for the front axle and 6,120 lb. for the rear axle. These combined weights provided a total measured curb weight of 10,410 lb. There are 19 seats including the driver plus 2 wheelchair positions. There is enough free floor space for 13 standing passengers. However, no standees are permitted according to the manufacturer's placard. Therefore, the gross load represents seated passengers only, for a total of 19 passengers and 2 wheelchair positions. At full declared capacity, gross load is calculated as (19x150) + (2x600) = 4,050 lb. The measured gross vehicle weight is 14,460 lb. There is a potential to overload this bus with the available floor space for standing passengers.

The FTA determined that this bus be tested for Accessibility, Selected Maintainability, Performance, Fuel Economy, Interior and Exterior Noise, and Emissions; the baseline full Bus Testing report for this test is LTI-BT-R1214.

1914-P

VEHICLE DATA FORM

Page 1 of 7

Bus Number: 1914-P	Date of Check-In: 11/21/19
Bus Manufacturer: ElDorado National-Kansas, Inc.	Vehicle Identification Number (VIN): 1FDXE4FN2MDC00012
Model Number: Advantage	Chassis Mfr./Mod.#: Ford / E450
Personnel: T.S. & E.L.	Starting Odometer Reading: 382.9

WEIGHT:

Individual Wheel Reactions:

Weights Front Ax	Axle	e Middle Axle		Rear Axle		
(lb.)	Curb	Street	Curb	Street		
CW	2,150	2,140	N/A		Curb	Street
SLW	2,400			N/A	3,430	2,690
GVW		2,480	N/A	N/A	5,140	4,440
GVVV	2,400	2,480	N/A	N/A	5,140	4,440

Total Weight Details:

Weight (lb.)	cw	SLW	GVW	GAWR
Front Axle	4,290	4,880	4,880	5,000
Middle Axle	N/A	N/A	N/A	N/A
Rear Axle	6,120	9,580	9,580	9,600
Total	10,410	14,460	14,460	GVWR: 14,500 Specified by Manufacturer

Dimensions:

Length (ft/in)	27 / 9	
Width (in)	96	
Height (in)	114	
Front Overhang (in)	35.50	
Rear Overhang (in)	89	
Wheel Base (in)	208.50	
Wheel Track (in)	Front: 68.5	
	Middle: N/A	
	Rear: 78.0	

VEHICLE DATA FORM

Page 2 of 7

Bus Number: 1914-P	Date: 11/21/19
CLEARANCES:	
Lowest Point Outside Front Axle	Location: Bumper Clearance(in): 8.25
Lowest Point Outside Rear Axle	Location: Fuel Tank Clearance(in): 11.5
Lowest Point between Axles	Location: Passenger Door Frame Clearance(in): 7
Ground Clearance at the center (in)	8.25
Front Approach Angle (deg)*	13.0
Rear Approach Angle (deg)*	Rear Bumper- 11.7 Tail Pipe- 7.7
Ramp Clearance Angle (deg)	4.5
Aisle Width (in)	18
Inside Standing Height at Center Aisle (in)	80

BODT DETAILS.			
Body Structural Type	Integral		
Frame Material	Steel		
Body Material	Fiberglass / Compo	site	
Floor Material	Plywood		
Roof Material	Fiberglass / Compo	site	
Windows Type	■ Fixed	☐ Movable	
Window Mfg./Model No.	Safety / AS-3 DOT-399		
Number of Doors	_2 Front	2 Main Passenger	
Mfr. / Model No.	Passenger Entry Door- A & M Systems-B313016 Driver's Door- Ford-OEM Rear Door-ElDorado Bus / 3400002K 32x62 Wheelchair Door- Challenger / #2-273339		313016 :62
Dimension of Each Door (in)	Passenger Entry Door- 33.25 x 79.875 Driver's Door-31.625 x 54 Rear Door-46.75 x 73.25 Wheelchair Door-30.25 x 60		
Passenger Seat Type	□ Cantilever	■ Pedestal	☐ Other
Driver Seat Type	□ Air	■ Spring	☐ Other
Mfr. / Model No.	FoMoCo / OEM		
Number of Seats (including Driver)	19 + 2 wheelchair positions		

^{*}measurements used to calculate approach and departure angles are taken from the center-line of the axles.
BODY DETAILS:

VEHICLE DATA FORM Page 3 of 7

Bus Number: 1914-P	Date	: 11/22/19	
BODY DETAILS (Contd.)			
Free Floor Space (ft²)	20.6		
Height of Each Step at Normal Position (in)	Front 1. <u>10.75</u>	2. <u>8.25</u> 3. <u>8</u> .	125 4. N/A
	Middle 1. N/A	2. <u>N/A</u> 3. <u>N/</u> A	
	Rear 1. N/A	2. <u>N/A</u> 3. <u>N/A</u>	
Step Elevation Change - Kneeling (in)	N/A		
ENGINE			
Туре	□ C.I.	☐ Alternate Fuel	
NAS- / NA - 1 - 1 - 1	■ S.I.	☐ Other (explain)	
Mfr. / Model No.	Ford Motor Co. / 7.3 L Gasoline		
Location	■ Front	□ Rear	□ Other (explain)
Fuel Type	■ Gasoline	□ CNG	☐ Methanol
	☐ Diesel	□ LNG	□ Other
Alternator (Generator) Mfr./Model No.	Ford Motor Co. / 0	GL 8980	(explain)
Maximum Rated Output (Volts / Amps)	12 / 240		1200
Air Compressor Mfr. / Model No.	N/A		
Maximum Capacity (ft³ / min)	N/A		
Starter Type	■ Electrical	□ Pneumatic	□ Other
Starter Mfr. / Model No.	FoMoCo / TN4380	000 475 12:	(explain)

VEHICLE DATA FORM

Page 4 of 7

Bus Number: 1914-P	Dat	e: 11/22/19	
TRANSMISSION			
Transmission Type	□ Manual	■ Automatic	☐ Load Sensing Adaptive
Mfr. / Model No.	FoMoCo / Torqu	ueShift 6	
Control Type	■ Mechanical	□ Electrical	□ Other
Integral Retarder Mfr. / Model No.	□ Yes	■ No	
SUSPENSION			
Number of Axles	2		
Front Axle Type	■ Independent	☐ Beam Axle	
Mfr. / Model No.	FoMoCo / OEM		
Axle Ratio (if driven)	N/A		
Suspension Type	□ Air	■ Spring	□ Other (explain)
No. of Shock Absorbers	2		
Mfr. / Model No.	FoMoCo / 8C24	-18045-D4	
Middle Axle Type N/A	☐ Independent	☐ Beam Axle	
Mfr. / Model No.	N/A		
Axle Ratio (if driven)	N/A		
Suspension Type	□ Air	☐ Spring	■ N/A
No. of Shock Absorbers	N/A		
Mfr. / Model No.	N/A		
Rear Axle Type	☐ Independent	■ Beam Axle	
Mfr. / Model No.	Dana / M70HD		
Axle Ratio (if driven)	4.56		
Suspension Type	□ Air	■ Spring	□ Other (explain)
No. of Shock Absorbers	2		
Mfr. / Model No.	FoMoCo / 8C24	-18080-DC	

VEHICLE DATA FORM Page 5 of 7

Bus Number: 1914-P			Date: 11/21/19	
WHEELS 8	TIRES			
Front	Wheel Mfr./ Model No.	Ford / 16 x	6.0 K	
	Tire Mfr./ Model No.		ynaPro HT 225	/ 75D16
Rear	Wheel Mfr./ Model No.	Ford / 16 x		731(16
	Tire Mfr./ Model No.		ynaPro HT 225 /	75R16
BRAKES				701110
Front Axle	Brakes Type	□ Cam	Pies	
Mfr. / Mo	del No.	FoMoCo / C	Disc	☐ Other (explain)
Middle Axl	e Brakes Type	□ Cam	Disc	- Nu
Mfr. / Mod	del No.	N/A	U DISC	■ N/A
Rear Axle	Brakes Type	□ Cam	■ Disc	
Mfr. / Mod	del No.	FoMoCo / C		☐ Other (explain)
IVAC				
Heating Sy	stem Type	☐ Air	■Water	
Capacity	(Btu/hr.)	65,000	■ vvater	☐ Other
Mfr. / Moo	lel No.	FoMoCo / O	EM Dr	oAir 1051 D
Air Conditio	oner	■ Yes	□ No	oAir 465LP
Location		Front & Rear		
Capacity (Btu/hr.)	55,000		
A/C Comp	ressor Mfr. / Model No.	Front-FoMoCo / 1330 Rear-ProAir / 465LP		
TEERING				1 10/All / 405EP
Steering Ge	ear Box Type	Hydraulic Co	0.5	
Mfr. / Mode		Hydraulic Gear Ford / OEM		
Steering Wi	neel Diameter	15.75		
	urns (lock to lock)	4		

VEHICLE DATA FORM

Page 6 of 7

Bus Number: 1914-P	Date: 11/21/19

OTHERS

Wheelchair Ramps	Location: N/A	Туре:	N/A
Wheelchair Lifts	Location: Rear	Туре:	Fold out platform
Mfr. / Model No.	BraunAbility / NCL917FIB3454-2		
Emergency Exit	Location: Win	dow Numb	er: 3
	Doo	rs	2

CAPACITIES

Fuel Tank Capacity (gallons)	39.9
Engine Crankcase Capacity (quarts)	8
Transmission Capacity (quarts)	17.4
Differential Capacity (quarts)	4.86
Cooling System Capacity (quarts)	20.3
Power Steering Fluid Capacity (quarts)	Fill to line (recommended by manufacturer)

VEHICLE DATA FORM Page 7 of 7

Bus Number: 1914-P	
	Date: 11/21/19
	Date: 11/21/19

List all spare parts, tools and manuals delivered with the bus.

Part Number	Description	Qty
N/A	N/A	N/A

REQUEST FOR QUOTATION 158" – 176" Wheelbase Cutaway Vehicle

BID DOCUMENTATION CHECKLIST

Manufacturer: ELDORADO Model Year:2023 Model: _ADVANTAGE
Bid Forms to be submitted with Bid:
Bid Form #1: Locations of Technical Service Representatives and Parts Distribution Centers
Bid Form #2: Certification for Air & Water Pollution
Bid Form #3: Disadvantaged Business Enterprise Vendors/Manufacturers Certification The vendor shall also supply with bid FTA TVM DBE Goal Concurrence for the Current Fiscal Year Approval Letter.
Bid Form #4: Buy America Certification Rolling Stock Should the Vendor be declared responsive and low bid, pursuant to Pre- Award and Post Delivery Audit Requirements, the Division will require the Vendor to submit documentation (with the bid or prior to any award) that lists:
 Component and sub-component parts of the rolling stock to be purchased identified by manufacturer of the parts, their country of origin and costs: and
 The location of the final assembly point for the rolling stock, including a description of the activities that will take place at the final assembly point and the cost of final assembly.
Bid Form #5: Federal Motor Vehicle Safety Standards Certification Vendor shall also supply with bid a breakdown of FMVSS standards to be met with proposed vehicle.
X Bid Form #6: U.S. Comptroller's Debarment List Certification
Bid Form #7: Certification of Primary Participant Regarding Debarment, Suspension, and Other Responsibility Matters
Bid Form #8: Vendor's Certification of Understanding and Acceptance
Bid Form #9: Certification of Restrictions on Lobbying
Bid Form #10: Certification of Compliance with FTA's Vehicle Testing Requirements A copy of the vehicle testing report (if available) shall be included with the bid.
Exhibit A Pricing Page

158" Wheelbase Cutaway Vehicle (Paratransit)

DOCUMENTATION TO BE SUBMITTED WITH BID:

Section	BOOGNIENTATION TO BE SUBMITTED WITH BID:
Referenced	
× 3.1.11	Provide details of water testing procedures.
_X_3.2	Chassis: provide product description, warranty information and product literature.
<u>X</u> 3.2	Wheelbase: provide length of proposed wheelbase.
3.3	Engine: gasoline: provide product description, warranty information and product literature.
X _3.5	Radiator and Cooling System: provide product description, warranty information and product literature.
3.6	High Idle System, provide product description, warranty information and product literature.
X _3.8	Transmission: provide product description, warranty information and product literature.
X_3.10.4	Rear View Back-Up Camera: provide product description, warranty information and literature.
X_3.11.4	Tilt Wheel, Cruise Control and Power Steering: provide product description.
X 3.13	Brakes: provide product description, warranty information and product literature.
X 3.14	Wheels: provide product description, warranty information and product literature.
X _3.15	Tires: provide product description, warranty information and product literature.
X _3.16.5	Alternator: provide product description, warranty information and product literature.
X_3.16.6	Battery: provide product description, warranty information and product literature.
X _3.17.1	Radio/AM/FM/USB/MP3: provide product description, warranty information and product literature.
<u>X</u> 3.19	Body Structure/Roof Specifications: provide a description of how construction/conversion will take place and meet the specification requirements. Provide actual interior height and body length of proposed vehicle.
X_3.19.15	Stepwell: provide a description of construction.
X 3.22 X 3.23	Entrance, Exit, Lift, and Emergency Exit Doors: Provide product description, dimensions, description of connection with interlock system, and locks to be provided.
X_3.23	Rear Bumper: provide product description, warranty information and product literature.

158" Wheelbase Cutaway Vehicle (Paratransit)

	158" Wheelbase Cutaway Vehicle (Paratransit)
<u>X</u> 3.24	Wheelchair Lift: provide product description, warranty information and product literature.
X 3.24.9	Interlock System: provide product description, warranty information and product literature.
X _3.26	Front and Rear Heating and Air Conditioning: provide product description, warranty information, product literature.
<u>X</u> 3.29	Flooring: provide a description of product to be used, samples of floor covering, colors to be used and assembly process.
X _3.30.1	Passenger Seats and Restraints: provide product description, warranty information and product literature.
X_3.30.2	Padded Grab Handle: provide product description.
X_3.30.11	Driver's Seat: provide product description, warranty information and product literature.
X 3.31	Wheelchair Securement System: provide product description, warranty information and product literature.
_X_3.32	Mobility Aid/ Occupant Restraint Systems: provide product description, warranty information and product literature.
X _{3.33.1}	Exterior Mirrors: provide product description, warranty information and product literature.
X 3.37	Dual Purpose Safety Vent: provide product description, warranty information and product literature.
X _3.38	Storage Compartment: provide information on proposed location.
X_3.44	Training: submit letter of understanding to the terms in this Section.
<u>X</u> 3.43	Security Camera System: provide product description, warranty information and product literature.
X_6.1.7.4	Warranty Provider Locations: provide names of providers in WV.
<u>X</u> 6.1.7.5	Warranties: provide information on warranties to be provided.
_X _9.3	Complete two (2) bids in binder form –one (1) marked for DPT.
<u>X</u> 11.1.1	Complete mechanical description of vehicle, its construction and equipment including manufacturer's model name and/or number.
<u>X</u> 11.1.2	Proposed interior floor plans, showing detailed dimensions including the location of the wheelchair securement system.
X_11.1.3	Curb weight (empty weight) and gross vehicle weight rating (GVWR of vehicle.

158" Wheelbase Cutaway Vehicle (Paratransit)

X_11.1.6 Rustproofing and Undercoating: provide product description, warranty information and product literature.

X 11.1.8 A list of five (5) users names, addresses, emails, and telephone numbers who have been provided similar equipment.

No Debt Affidavit

Addendum Acknowledgement

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Rohrer Enterprises, Inc. DBA Rohrer E	Sus Sales
Authorized Signature:	Date: 5-9-22
State of Victions	
County of Augusta, to-wit:	
Taken, subscribed, and sworn to before me this 2th day	of <u>May</u> , 2022.
My Commission expires <u>Jone</u> <u>30</u>	, 20 <u>22</u> .
AFTEX SE ALIGHERE REGO 7610619 MY COMMISSION EXPIRES 6/30/2022 6/30/2022	NOTARY PUBLIC

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ PTR2200000007

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

	Numbers Received: box next to each addendu	ım received)	
\boxtimes	Addendum No. 1		Addendum No. 6
X	Addendum No. 2		Addendum No. 7
\boxtimes	Addendum No. 3		Addendum No. 8
\boxtimes	Addendum No. 4		Addendum No. 9
	Addendum No. 5		Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Rohrer Enterprises	, Inc. DBA Rohrer Bus Sales
	Company)
	Authorized Signature
5-9-22	
	Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.



CRFQ 0805 PTR 22-007 for Division of Public Transit 158" Wheelbase Cutaway Vehicle



2023 158" Ford E450 ELDORADO ADVANTAGE

Proposal From:

David M Clawson, Jr.
Senior Vice President Sales
Rohrer Enterprises, Inc. DBA/Rohrer Bus Sales
1515 State Road
Duncannon, PA 17020

2075 West Main Street, Waynesboro, VA 22980 direct 540 729-3751 rohrerbus.com



May 9, 2022

David H Pauline Department of Administration **Purchasing Division** 2019 Washington Street E Charleston, WV 25305

Ref: PTR2200000007

Dear Mr. Pauline:

Rohrer Bus Sales appreciates this opportunity to submit a bid for paratransit vehicles to the State of West Virginia. Our offering, an ELDORADO ADVANTAGE for class A, meets the intent and letter of your specifications as well as amendments 1-4 with the following documentation, clarifications, deviations and/or explanations per your Required Bid Documentation Checklist.

Mandatory Bid Forms -

Bid Form #1: Locations of Technical Service Representatives and Parts Distribution Centers

Bid Form #2: Certification for Air & Water Pollution

Bid Form #3: Disadvantaged Business Enterprise Vendors/Manufacturers Certification The vendor shall also supply with bid FTA TVM DBE Goal Concurrence for the Current Fiscal Year Approval

Bid Form #4: Buy America Certification Rolling Stock Should the Vendor be declared responsive and low bid, pursuant to Pre-Award and Post Delivery Audit Requirements, the Division will require the Vendor to submit documentation (with the bid or prior to any award) that lists:

1) Component and sub-component parts of the rolling stock to be purchased identified by manufacturer of the parts, their country of origin and costs: and

2) The location of the final assembly point for the rolling stock, including a description of the activities that will take place at the final assembly point and the cost of final assembly.

Bid Form #5: Federal Motor Vehicle Safety Standards Certification Vendor shall also supply with bid a breakdown of FMVSS standards to be met with proposed vehicle.

Bid Form #6: U.S. Comptroller's Debarment List Certification

Bid Form #7: Certification of Primary Participant Regarding Debarment, Suspension, and Other Responsibility Matters

Bid Form #8: Vendor's Certification of Understanding and Acceptance

Bid Form #9: Certification of Restrictions on Lobbying

Bid Form #10: Certification of Compliance with FTA's Vehicle Testing Requirements. A copy of the vehicle testing report (if available) shall be included with the bid.

No Debt Affidavit

Addendum Acknowledgement

2075 West Main Street, Waynesboro, VA 22980 direct 540 729-3751 rohrerbus.com



Documentation also submitted with bid:

- Encl 1 for 3.1.11 Details of water testing procedures.
- Enc 2 for 3.2 Chassis- provide product description, warranty information and product literature.
- Encl 3 for 3.2 provide length of proposed wheelbase.
- Encl 4 for 3.3 Engine: gasoline: provide product description, warranty information and product literature.
- Encl 5 for 3.5 Radiator and Cooling System: provide product description, warranty information and product literature.
- Encl 6 for 3.6 High Idle System, provide product description, warranty information and product literature.
- Encl 7 for 3.8 Transmission: provide product description, warranty information and product literature.
- Encl 8 for 3.10.4 Rear View Back-Up Camera: provide product description, warranty information and literature.
- Encl 9 for 3.11.4 Tilt Wheel, Cruise Control and Power Steering: provide product description.
- Encl 10 for 3.13 Brakes: provide product description, warranty information and product literature.
- Encl 11 for 3.14 Wheels: provide product description, warranty information and product literature.
- Encl 12 for 3.15 Tires: provide product description, warranty information and product literature.
- Encl 13 for 3.16.5 Alternator: provide product description, warranty information and product literature.
- Encl 14 for 3.16.6 Battery: provide product description, warranty information and product literature.
- Encl 15 for 3.17.1 Radio/AM/FM/USB/MP3: provide product description, warranty information and product literature.
- Encl 16 for 3.19 Body Structure/Roof Specifications: provide a description of how construction/conversion will take place and meet the specification requirements. Provide actual interior height and body length of proposed vehicle.
- Encl 17 for 3.19.15 Stepwell: provide a description of construction.
- Encl 18 for 3.22 Entrance, Exit, Lift, and Emergency Exit Doors: Provide product description, dimensions, description of connection with interlock system, and locks to be provided.
- Encl 19 for 3.23 Rear Bumper: provide product description, warranty information and product literature.
- Encl 20 for 3.24 Wheelchair Lift: provide product description, warranty information and product literature.
- Encl 21 for 3.24.9 Interlock System: provide product description, warranty information and product literature.
- Encl 22 for 3.26 Front and Rear Heating and Air Conditioning: provide product description, warranty information, product literature.
- Encl 23 for 3.29 Flooring: provide a description of product to be used, samples of floor covering, colors to be used and assembly process.
- Encl 24 for 3.30.1 Passenger Seats and Restraints: provide product description, warranty information and product
- Encl 25 for 3.30.2 Padded Grab Handle: provide product description.
- Encl 26 for 3.30.11 Driver's Seat: provide product description, warranty information and product literature.
- Encl 27 for 3.31 Wheelchair Securement System: provide product description, warranty information and product
- Encl 28 for 3.32 Mobility Aid/ Occupant Restraint Systems: provide product description, warranty information and product literature.
- Encl 29 for 3.33.1 Exterior Mirrors: provide product description, warranty information and product literature.
- Encl 30 for 3.45 Dual Purpose Safety Vent: provide product description, warranty information and product literature.
- Encl 31 for 3.46 Storage Compartment: provide information on proposed location.



Encl 32 for 3.51 Training: submit letter of understanding to the terms in this Section.

Encl 33 for 3.44 Security Camera System provide product description, warranty information and product literature.

Encl 34 for 6.1.7.4 Warranty Provider Locations: provide names of providers in WV.

Encl 35 for 6.1.7.5 Warranties: provide information on warranties to be provided.

Encl 36 for 11.1.1 Complete mechanical description of vehicle, its construction and equipment including manufacturer's model name and/or number.

Encl 37 for 11.1.2 Proposed interior floor plans, showing detailed dimensions including the location of the wheelchair securement system.

Encl 38 for 11.1.3 Curb weight (empty weight) and gross vehicle weight rating (GVWR of vehicle.

Encl 39 for 11.1.6 Rustproofing and Undercoating: provide product description, warranty information and product literature.

Encl 40 for 11.1.8 A list of five (5) users names, addresses, emails, and telephone numbers who have been provided similar equipment.

Please contact us immediately at 1-800-735-3900 if any additional documentation is required. Thanks again for your consideration!

Sincerely,

David

D.M. Clawson, Jr. Bus Sales & Administration

ROHRERDirect 540.729.3751

dclawson@rohrerbus.com



REFERENCES

REFERENCE #1: Pennsylvania Department of General Services

Rohrer Bus Sales has held the state contract for Pennsylvania since 2007 and currently holds a contract which has been renewed until April 2019. This contract contains shuttle bus products from 21' – 31' in length and includes Ford, Chevrolet and Freightliner chassis. This contract also includes wheelchair minimum conversions.

Contact: John Levitsky, Program Manager
Department of General Services
Bureau of Procurement
555 Walnut Street, 6th Floor Forum Place
Harrisburg, PA 17101
717-787-1206
jlevitsky@pa.gov

REFERENCE #2: Federal Government's General Service Administration

For over ten years, Rohrer Bus Sales has provided Ford and Freightliner chassis to the Federal government. Our current contract is GS-30F-DA024 and is in process of being renewed for the 3rd of 4 option periods. The annual volume on this contract is generally in the 40-50 buses per year range

Contact:

Craig D. Yokum, Contract Officer

U.S. General Services Administration/Federal Acquisition Service

Office of Travel, Transportation and Logistics Light Vehicles Branch - QMAAA 1800 F Street, NW, 3rd Floor, Hub 3200 Washington, DC 20405 <u>craig.yokum@gsa.gov</u> Phone 703-605-9291

Cell 571-748-8753



REFERENCE #3 - SCTA

Currently administering a state wide multi-year contract on behalf of all transit sytems in the state of Pennsylvania. Rohrer holds both an F550 contact and a Ford Transit contract. Expect to sell and service 2-300 vehicles over life of contract

Contact:

Jeffrey H. Glisson

Director of Capital Projects/Planning

Telephone (717) 358-1928

Email jglisson@sctapa.com



REFERENCE #4 - Harrisburg International Airport

For over twenty years, Rohrer Bus Sales has provided Ford and Chevrolet cutaways, Freightliner M2, rear engine and low floor buses to HIA.

Contact:

Robert Gardner, Vehicle Maintenance Supervisor

513 Airport Drive Middletown, PA 17057 717-948-3900

bobg@saraa.org

REFERENCE #5 - State of West Virginia

Contract history extends for over twenty years - Rohrer Bus Sales combined with David Clawson management experience has provided Dodge, Ford and Freightliner vans and buses to WV in excess of 900 vehicles.

Contact: Current Manager, John Caldwell

West Virginia Division of Public Transit

Previous Manager - Tim Thomas Now working for Mountain Transit Authority

1900 Kanawha Blvd., East

1096 Broad Street

Building 5, Room 650

Summersville, WV 26651



Ford Motor Company

Is proud to recognize

Eldorado National-Kansas (REV)

as a participant in the

Transit Bus

Qualified Vehicle Modifier Program



Ryan A. Delaney -- SVE Quality Programs Mgr.

June, 2018



Certificate of Certification

This is to certify the Quality Management System of:

ElDorado National (Kansas), Inc. 1655 Wall Street Salina, KS 67401 USA

Has been assessed by Orion Registrar and found to be in compliance with the following Quality Standard:

ISO 9001:2015

The Quality Management System is applicable to:

Design, Manufacture and Sale of Customized **Buses and Multipurpose Passenger Vehicles**

The Certification period is from August 17, 2018 to October 30, 2021

This certification is subject to the company maintaining its system to the required standard, and applicable exceptions, which will be monitored by Orion.

Client ID: 342

Certificate ID:

1014899





August 17, 2018

Paul M. Burck, President

Date





Company History

Rohrer Bus... four generations of transportation experience.

Rohrer's history all began in the early 1920's when Howard E. Rohrer Sr. started transporting school children with his horse and wagon in Allen's Cove, just south of Duncannon, Pennsylvania. The early horse-and-wagon evolved to a few wooden school bus bodies being built on car chassis'. Over the years, the need for student transportation grew. That's the way Rohrer Bus began.

Now fast forward to 1975. Howard E. Rohrer Jr. was running the business and our school bus fleet had grown to 70 buses. In addition to our growing school transportation service, Rohrer Bus added a Sales company and teamed up with Wayne school buses to represent their products. It was soon apparent that our school bus company was quickly outgrowing the facility on the family farm. So, in 1976, ground was broken for a new sales and service facility where our headquarters remain today.

By 1981, the 3rd generation of the Rohrer family was well on their way to continuing our company's transportation legacy. H.E. "Skip" Rohrer III and his brother-in-law John Schrantz, who continue to oversee the business operations today, took over the company from H.E. Rohrer Jr. By this time, our operating fleet had grown to over 200 buses and, in 1982, we became a dealer for Champion Bus selling commercial buses.

In the fall of 1999, Rohrer Bus Sales proudly became the Thomas Built Bus dealer for the much of the state of Pennsylvania. Our experience in the sale and operation of school and commercial buses, along with our reputation for providing outstanding customer service made Rohrer the logical choice when Thomas Built Buses was looking for a full-service dealership to partner with. And in 2006, just one year after receiving the Pennsylvania School Bus Association's (PSBA) Platinum Bus Award for 75 years of service to the transportation industry, Rohrer Bus was celebrated as the Thomas Built Bus Dealer of the Year.

Today, the 4th generation of the Rohrer transportation legacy is now in place with Tahva Rohrer Wylie and David Schrantz continuing our family's dedication to the transportation industry. We currently sell vehicles throughout the mid-Atlantic states of Pennsylvania, Maryland, New Jersey, Delaware, and Virginia. Rohrer Bus offers a complete lineup of vans and buses ranging from small, wheelchair-accessible passenger vans to 90-passenger buses. On top of that, we are a FULL service dealer with factory-trained, ASE certified technicians providing factory approved service and warranty repairs for the ENTIRE bus.

In addition to our dealership growth, over fifteen (15) Pennsylvania school districts, intermediate units, and other entities rely on our fleet of over 500 vehicles to provide them with safe transportation services for their students. Our Duncannon headquarters has expanded several times, now with over 30,000 square feet, offering complete support along with the latest tools and equipment. With that, we are proud to be recognized as Perry County's largest employer. In addition to our Duncannon facility, Rohrer Bus has instituted several satellite facilities located throughout our growing sales territory.

Although we may have grown much larger over our many years in business, our Rohrer Bus family still prides itself on one thing: providing the very best transportation products and services available. With over 1000 years of combined industry experience, we can handle just about any transportation need, while consistently demonstrating our commitment to the highest level of quality, safety, and customer service. So, as "The Transportation Company You Can Depend On", we look forward to a very long and successful relationship as your partner in safe and reliable transportation!



Warranty Service & Product Recalls

When buying a vehicle from Rohrer Bus, you can rest assured that you will be taken care of long after the sale. Our dedicated account representatives, Ryan Renninger (warranty) and Greg Kline (parts), are committed to service. They are here to help you from 8am – 4:30pm Monday thru Friday. Mr. Renninger is hands on and our most knowledgeable employee regarding warranty. Mr. Renninger and Mr. Kline can be reached at 1-800-735-3900.





Statement of Qualifications

Rohrer Enterprises is a third generation business founded in the mid-1920s who employs over 800 employees. Our facility is open 5 days a week, 18 hours a day with service advisors available 24/7. The commercial sales division represents Champion Bus in Maryland, Pennsylvania, Delaware, Virginia, and New Jersey, the District of Columbia and the GSA / United States federal government. Our knowledge and experience with transit system maintenance operations, practices and control system technology relates directly to our own operation of over 700 daily school bus routes. We are also operating as a certified third party tester for the Commercial Driver's License (CDL).

Rohrer Bus Sales has represented Champion Bus since 1982 and has consistently been one of their top dealers, primarily due to their quality of manufacturing and support they offer their dealer network. Rohrer Bus Sales has recently been recognized as a Platinum Level Dealer for 2009, 2010 and 2012 and also recognized as having the longest standing dealer relationship with Champion Bus. We also represent Thomas Bus in the state of Pennsylvania and have been recognized as a "Gold Level" dealer.

Rohrer Bus Sales held the contract for the Commonwealth of Pennsylvania in the light/medium duty shuttle bus categories including Ford, Chevrolet, Freightliner and International chassis. In addition to the light/medium duty shuttle buses, Rohrer Bus Sales has also held similar contracts with the Commonwealth of Pennsylvania for light duty minivan conversions, Ford cargo/passenger van conversions and the VPG purpose built vehicle.

Management of this IFB would be conducted by specific key personnel of Rohrer Enterprises, Inc. d/b/a/ Rohrer Bus Sales. This would include all processes from the initial contact, oversight of the ordering and production process, quality control, and final delivery of the completed unit. Our service department will administer all warranties implied in this response along with offering technical support for the products offered.



FACILITY

Water test bay:

20' wide x 56' long x 18' high with attached pump room

measuring 15' wide x 20' long x 9' high.

Water jets:

- 5 Lengths of 11/2" schedule 80 pipe at 45' long running

lengthwise inside the building.

- 15 Active nozzles per pipe length for a total of 75 nozzles

(Model 24 WSQ Nozzles with 110° spray pattern).

- Water supplied by 3" schedule 80 pipe with 3" schedule 80

pipe headers on each end of system.
- System supply pump rated at 300 gpm

Water Pressure:

- System water pressure adjustable up to 45 psi

Example: - 20 psi = 3.3 gpm/nozzle - 40 psi = 4.4 gpm/nozzle

- System recovery pump rated at 300 gpm

PROCEDURE

1. DRIVE VEHICLE INTO BAY.

2. ACTIVATE WATER SPRAY. (SYSTEM GOES ON, AUTOMATICALLY)

*3. LET VEHICLE SET FOR A MINIMUM OF 15 MINUTES PER UNIT. (MORE TIME MAY BE NECESSARY, IF VEHICLE IS SLATED FOR HARSH ENVIRONMENTS.

ENGINEERING SHOULD REVIEW AND APPROVE ALL REQUESTS FOR CHANGES TO THIS SYSTEM AND PROCEDURE. USE THE "ECR" SYSTEM FOR REQUESTED CHANGES.)

*NOTE: Currently, our system pressure, at the main pump is set at 10 psi, this is approximately equivalent to a rainfall of 18" per a 1 hour period.

- 4. EXAMINE ALL WINDOWS, DOORS, WHEELWELLS, ESCAPE HATCHES, VENTS, WALLS, CEILING, FLOOR, AND ANY OTHER JOINT FOR WATER LEAKS.
- RECORD RESULTS ON "WATER TEST LOG".
- 6. TURN OFF WATER SPRAY. (SYSTEM SHUTS OFF AUTOMATICALLY.)
- 7. EXIT BOOTH AND RETURN VEHICLE TO REPAIR BAY AND REPAIR ALL LEAKS.
- 8. IF ANY LEAKS WERE FOUND, RETEST VEHICLE (STEPS 1-5).
- 9. PROVIDE COMPLETED "WATER TEST LOG" TO QA PERSON, GROUP 50 (NORTH BLDG) OR GROUP 70 (SOUTH BLDG.) FOR REVIEW AND FILING WITH VEHICLE'S MASTER FILE.
- 10. QA PRODUCTION PERSONNEL SHOULD ALERT ALL GROUPS, OF CONSISTENTLY FOUND, NON-CONFORMING ASSEMBLY CONCERNS.

E-SERIES CUTAWAY E-450 DRW

View Local Inventory



Key Features



7.3L V8 Premium-Rated Engine

This proven engine, available with a premium or economy rating, features single overhead-cam design and dual-equal variable-cam timing that helps optimize power across the entire power band. The standard 7.3L V8 Premium-rated engine with TorqShift® six-speed automatic



Ford Torqshift® Automatic Transmission

The Ford TorqShift® six-speed automatic transmission is designed and built by Ford to handle the high-performance demands of the standard, Premium-rated 7.3L V8 (325 horsepower and 450 lb.ft. of torque at 3,750 rpm)* and the available 7.3L V8 Economy-rated



16-inch x 6-inch White-Painted Steel Wheels

These white-painted steel wheels are standard on dual-rear-wheel models.

See attached sheet for 2023 Specifications. Per Ford we are to use these specs and an estimated price increase for 2024

10FZ

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	158" WHEELBASE OXFORD WHITE	- 00 00-00-00 00 00 N			.ENG BLK HEATER		
YZ	OXFORD WHITE				.FRAME PUCKS		
X	NO TRIM	NC	NC		EXT UPGRADE PKG	NC	NC
E	MEDIUM FLINT				SURCHARGE	NC	225 00
782A	PREF EQUIP PKG				FLEET SPCL ADJ	NC	(265.00)
	.STANDARD TRIM				SHUTTLE BUS DIS	/460\	(305.00)
572				162	FLR VINYL, FRT	(400)	(418.00)
	.16" WHITE WHLS			102	ILIK VINIL, FRI		
		NC	NC	TOTAL	BASE AND OPTIONS	20445	35600 00
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5006	- MORE DATA IS AVA	AILABLE.					0505330
5006	- MORE DATA IS AVA	AILABLE.					QE05238
3006	- MORE DATA IS AVA	AILABLE.					
5006 CNGP	- MORE DATA IS AVA	AILABLE.		CONFIR	MATION	04/25/	
3006	- MORE DATA IS AVA	VEHI	CLE ORDER		MATION		22 09:50:10
SOO6 CNGP	- MORE DATA IS AVA	VEHI	CLE ORDER	TNE		Dea	22 09:50:10 ler: F53110
CNGP ==>	- MORE DATA IS AVA	VEHI	CLE ORDER 023 ECONO	LINE	3 Order Type: 4	Dea	22 09:50:10 ler: F53110
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New Vehicle Limited Warranty

3 years/36,000 miles (whichever comes first)

You will not be charged for repairs covered by any applicable warranty during the stated coverage period, unless specifically stated elsewhere in the Warranty Guide. The part will be repaired or replaced without charge by any authorized Dealer, regardless of any change of vehicle ownership during the warranty period.

The New Vehicle Limited Warranty doesn't cover:

- 1. Parts and labor needed to maintain the vehicle.
- 2. The replacement of parts due to normal wear and tear. You as the owner are responsible for those items.

Some examples of maintenance and normal wear are:

- · oil changes
- · oils
- · lubricants, other fluids
- · oil/air filters
- tire rotation/inflation
- cleaning/polishing
- clutch linings
- wiper blades¹
- wheel alignments and tire balancing¹
- brake pad/lining¹

¹Ford will replace or adjust certain maintenance items when necessary, free of charge during a limited period:

- · Wiper blade replacements will be provided during the first six months in service, regardless of miles driven.
- Wheel alignments and tire balancing will be provided during the first 12 months or 12,000 miles in service, whichever occurs first.
- Brake pad/lining replacements will be provided during the first 12 months or 18,000 miles in service, whichever occurs first.

For important warranty details and exclusions, contact your dealer or see your Warranty Guide.

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Corrosion Warranty

5 years (regardless of mileage)

Your vehicle's body sheet metal panels or aluminum body panels are covered for an extended Corrosion Coverage Period. Coverage only applies if a body sheet metal panel becomes perforated due to corrosion during normal use due to a manufacturing defect in factory-supplied materials or factory workmanship. If aluminum body panels have corrosion or rust damage and the damage is not the result of abnormal usage, vehicle accident, customer actions or extreme environmental conditions, the corrosion or rust damage is covered for 5 years, unlimited miles.

For damage caused by airborne material (environmental fallout) where there is no factory-related defect involved and therefore no warranty – our policy is to provide free repair of paint damage due to the airborne material for 12 months or 12,000 miles, whichever occurs first.

For important warranty details and exclusions, contact your dealer or see your Warranty Guide.

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E-SERIES CUTAWAY E-450 DRW

View Local Inventory



Wheel bases used for this bid include both 158" and 176" depending on floorplan

Engine 7.3L gas premium engine is utilized. Warranty documentation included in Ford overview

Radiator and cooling system components follows. No literature available



Ford E450 Super Duty Radiator



Ford E450 Super Duty Belt



Ford E450 Super Duty Water Pump



Ford E450 Super Duty Hose (Upper)



Ford E450 Super Duty Coolant Overflow Tank



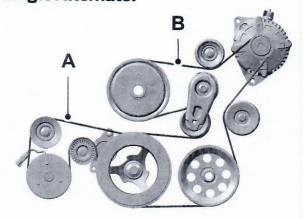
Ford E450 Super Duty Fan Clutch

Capacities and Specifications

ENGINE SPECIFICATIONS

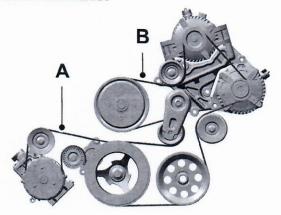
Engine	7.3L V8 Engine		
Displacement.	445 in ³ (7,293 cm ³)		
Required fuel.	Minimum 87 octane		
Firing order.	1-5-4-8-6-3-7-2		
Ignition system.	Coil near spark plug with spark plug wire		
Spark plug gap.	0.049 in (1.25 mm) - 0.053 in (1.35 mm)		
Compression ratio.	10.5:1		

Drivebelt Routing Single Alternator



- A Drivebelt closest to the engine.
- B Drivebelt furthest from the engine.

Dual Alternator



- A Drivebelt closest to the engine.
- B Drivebelt furthest from the engine.

MOTORCRAFT PARTS

Component	Motorcraft Part number	
Air filter element.	FA-2042	
One battery.	BXT-65-750	
Two batteries (optional).	BXT-65-750	

Capacities and Specifications

Component	Motorcraft Part number		
Engine oil filter.	FL-820-S		
Spark plug.	SP-589		
Transmission fluid filter.	FT-187		
Windshield wiper blade.	WW-2005		

¹ If a Motorcraft oil filter is not available, use an oil filter that meets industry performance specification SAE/USCAR-36.

We recommend Motorcraft parts that are available at your authorized dealer or at www.fordparts.com. These parts are engineered for your vehicle, and meet or exceed our specifications. Use of other parts could impact vehicle performance, emissions and durability. Your warranty could be void for any damage related to use of other parts.

Cooling system components con't



Ford E450 Super Duty Thermostat



Ford E450 Super Duty Radiator Fan Assembly



Ford E450 Super Duty Water Outlet



Ford E450 Super Duty Hose (Lower)



Ford E450 Super Duty Thermostat Gasket



Ford E450 Super Duty Water Pump Gasket

High Idle by Intermotive Gateway 508-Ford E Fast idle with interlock See attached literature on next page

Cateway



An ISO 9001:2015 Registered Company

Gateway

High Idle and Shift Interlock System



- All-in-one wheelchair interlock and high idle system to ensure full functionality of the vehicle's systems while using the lift
- Provides battery charge protection and improves air conditioning performance
- System is fully compliant with FMVSS 403/404 and the Americans with Disabilities Act (ADA) for wheelchair lift interlocks
- Simple plug and play connections to the OEM chassis



- Prevents vehicle movement while the lift is in use by locking the shifter in Park
- Monitors OEM sensor inputs from the transmission, engine, charging system and ambient air temperature
- · Programmable RPM for high idle
- Prevents driving with the park brake set
- Can provide real-time chassis data
- Diagnostic trouble codes available
- Optional BrakeMax add-on: automatically places vehicle in "tow haul" mode for reduced brake wear
- Uses Intermittent Fault Filter™ (IFF) technology to eliminate erroneous lift door signals

Product features may vary by make, model or year. See instructions for complete details.

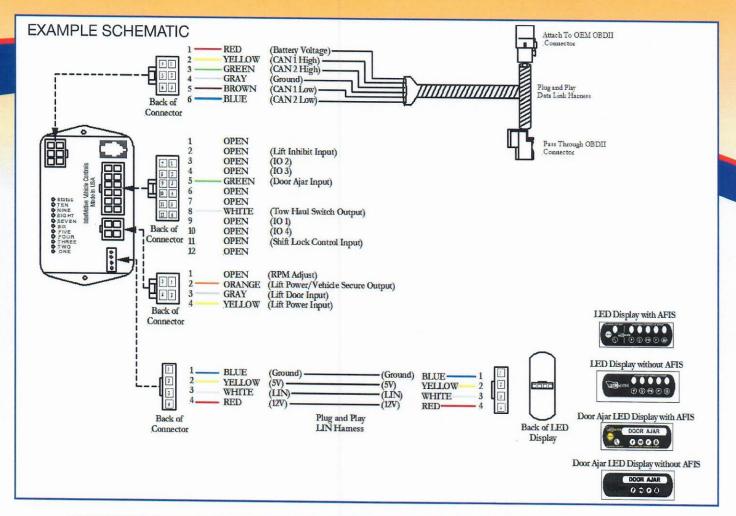
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AUTOMOTIVE TECHNOLOGIES

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Details



Number of Inputs Five inputs (lift inhibit, door ajar, shift lock, lift door and RPM adjust) Number of Outputs Four configurable outputs, plus one lift power/vehicle secur output and one tow haul switch output Current Draw ~120 mA Quiescent Draw ~2 mA (sleep current) CAN Speed High and medium speed Temperature Range -40°C to 80°C	SPECIFICATIONS	
output and one tow haul switch output Current Draw ~120 mA Quiescent Draw ~2 mA (sleep current) CAN Speed High and medium speed	Number of Inputs	
Quiescent Draw ~2 mA (sleep current) CAN Speed High and medium speed	Number of Outputs	Four configurable outputs, plus one lift power/vehicle secure output and one tow haul switch output
CAN Speed High and medium speed	Current Draw	~120 mA
	Quiescent Draw	~2 mA (sleep current)
Temperature Range -40°C to 80°C	CAN Speed	High and medium speed
	Temperature Range	-40°C to 80°C
Dimensions 4" L x 2" W x 1" H	Dimensions	4" L x 2" W x 1" H

Ford Torqshift Automatic Transmission- Six speed covered by a 5 year 60000 mile extended warranty that exceeds base new vehicle limited warranty



The Ford TorqShift® six-speed automatic transmission is designed and built by Ford to handle the high-performance demands of the standard, Premium-rated 7.3L V8 (325 horsepower and 450 lb.ft. of torque at 3,750 rpm)* and the available 7.3L V8 Economy-rated engine calibration (350 horsepower at 3,750 rpm and 425 lb.-ft. of torque at 3,250 rpm). * Available with either the standard Premium or optional Economy-rated 7.3L engine.

ROSCO







LEADING THE INDUSTRY IN REAR VISION SAFETY



program has selected Rosco Vision Systems in NY as the manufacturers of the STSK4750B backup camera system.

STSM244 MONITOR SPECS		STSC130B CAMERA SPECS		
SCREEN SIZE	7"	TV LINES	420 TVL	
RESOLUTION	800*480 pixels	FIELD OF VIEW (DIAGONAL)	150°	
MONITOR BRIGHTNESS	700cd/m2	MINIMUM ILLUMINATION	0.2 LUX	
NUMBER OF CAMERA INPUTS	1	DUST/WATER RATING	IP69K	
INPUT FORMAT	13-pin	POWER SUPPLY	12 Vdc	
VIEWING ANGLES	L/75°, R/75°, UP/60°, DOWN/60°	OPERATING TEMPERATURE	-22°F to 140°F -30°C TO 65°C	
SHOCK RATING	2G			
VIBRATION RATING	6G			
POWER SUPPLY	12 ~ 32 VDC			
OPERATING TEMPERATURE RANGE	-4°F to 158°F -20°C to 70°C		1-800-227-209	





Steering Wheel and Steering Column

For maximum comfort, the E-Series steering wheel and column easily adjust to fit your preferences behind the wheel. With an adjustable steering column, you are able to set your position for maximum comfort and help avoid the potential problems that come with long, uncomfortable drives.

Electronic cruise control operated from lower left of steering wheel controls

Power steering assisted hydraulically by engine driven power steering pump covered under 3 yr 36000 mile Ford warranty

POWER STEERING FLUID CHECK

warning: A fluid level between the MAX and MIN lines is within the normal operating range and there is no need to add fluid. A fluid level not in the normal operating range could compromise the performance of the system.

warning: For E-350 and E-450 vehicles with the Hydro-Boost Brake System, do not press the brake pedal after the engine has been turned off. Pressing the brake pedal after the engine has been turned off will give a false power steering fluid level reading.

Only use fluid that meets Ford specifications. See Hydraulic Power Steering Fluid Capacity and Specification (page 234).

To top up the power steering fluid level do the following.

- Start the engine and let it run until it reaches normal operating temperature.
- Make sure the fluid is within the MIN and MAX range.
- If the fluid level is low, add fluid to be within the MIN and MAX range. Do not overfill.
- 4. While the engine idles, turn the steering wheel left and right several times.
- 5. Recheck the fluid level in the reservoir.

Note: Do not operate the vehicle with a low power steering pump fluid level.

Brakes Ford OEM disc brakes with ABS covered under 3yr/36000 mile base warranty except pads

GENERAL INFORMATION

Note: Occasional brake noise is normal. If a metal-to-metal, continuous grinding or continuous squeal sound is present, the brake linings may be worn-out, have the system checked. If the vehicle has continuous vibration or shudder in the steering wheel while braking, have the system checked as soon as possible.

Note: Brake dust may accumulate on the wheels, even under normal driving conditions. Some dust is inevitable as the brakes wear and does not contribute to brake noise.See Cleaning the Wheels.

BRAKE See Warning Lamps and Indicators.



Wet brakes result in reduced braking efficiency. Gently press the brake pedal a few times when driving from a car wash or standing water to dry the brakes.

Brake Over Accelerator

In the event the accelerator pedal becomes stuck or entrapped, apply steady and firm pressure to the brake pedal to slow the vehicle and reduce engine power. If you experience this condition, apply the brakes and bring your vehicle to a safe stop. Move the transmission to park (P), switch the engine off and apply the parking brake. Inspect the accelerator pedal for any interference. If none are found and the condition persists, have the system checked.

Anti-lock Brake System

This system helps you maintain steering control during emergency stops by keeping the brakes from locking.

If it illuminates when you are driving, your vehicle requires service. Your vehicle continues to have normal braking without the anti-lock brake system function. Have your vehicle checked as soon as sure the parking brake is disengaged. If the parking possible.

It also momentarily illuminates when you switch the ignition on to confirm the lamp is functional. If it does checked as soon as possible. not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked.

It illuminates when you engage the parking brake and the ignition is on.

If it illuminates when your vehicle is moving, make brake is disengaged, this indicates low brake fluid level or a brake system fault. Have your vehicle

It also momentarily illuminates when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked.

Hydraulic brake booster system (Hydroboost or Hydromax)

The Hydroboost and Hydromax systems receive fluid pressure from the power steering pump to provide power assist during braking.

The Hydromax booster receives backup pressure from the reserve system electric pump whenever the fluid in the power steering system is not flowing. When the engine is off, the pump turns on if you apply the brake pedal, or if you switch the ignition to the on position.

The sound of the pump operating may be heard by the driver. This is a normal characteristic of the system.

The reserve system provides reduced braking power, so the vehicle should be operated under these conditions with caution, and only to seek service repair and removal of the vehicle from the roadway.

Note: For vehicles with the Hydromax system operating under normal conditions, the noise of the fluid flowing through the booster may be heard whenever you apply the brake. This condition is normal. Vehicle service is not required.

If braking performance or pedal response becomes very poor, even when you strongly press the pedal, it may indicate the presence of air in the hydraulic system or leakage of fluid. Stop your vehicle as soon as it is safe to do so. Have the system checked as soon as possible.

PARKING BRAKE

WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you leave your vehicle. Failure to follow this instruction could result in personal injury or death.

Apply the parking brake whenever you park your vehicle.

- For vehicles with a foot operated parking brake, press the pedal down.
- For vehicles with a hand operated parking brake, pull the parking brake lever up.

It illuminates when you switch the ignition on and apply the parking brake. It also illuminates momentarily when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on or begins to flash at any time, have the system checked by an authorized dealer.

If it illuminates when your vehicle is moving, make sure you disengage the parking brake.

If the parking brake is disengaged, this indicates a low brake fluid level or a brake system fault. Have your vehicle checked as soon as possible.

To release the parking brake:

- For vehicles with a foot operated parking brake, pull the parking brake release lever.
- For vehicles with a hand operated parking brake, push the parking brake lever down.



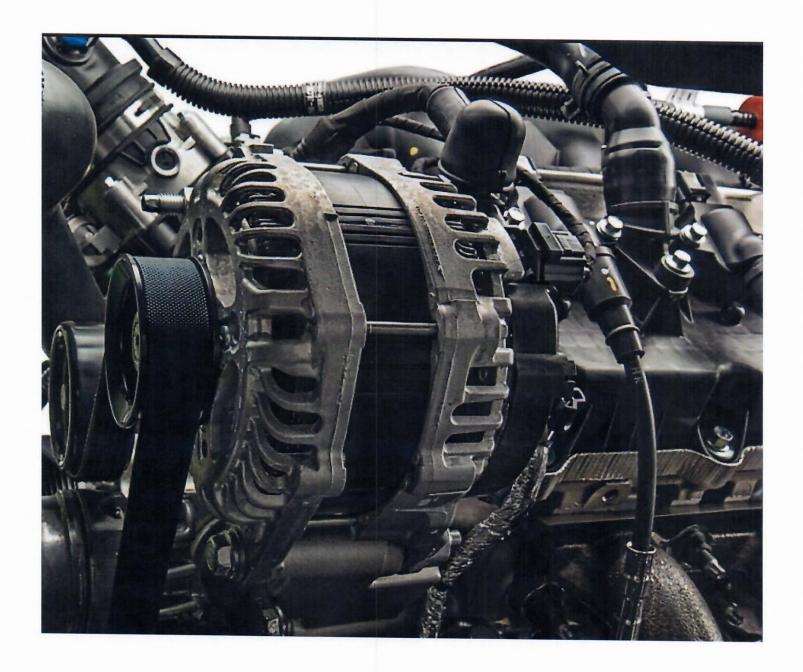
16-inch x 6-inch White-Painted Steel Wheels

These white-painted steel wheels are standard on dual-rear-wheel models.

Tires – LT225/75R16E covered under separate limited defect warranty. Any replacement if warranted may be subject to mileage already used. No guarantee of tire manufacture. Subject to change over life of contract



Optional 240 amp alternator by Ford – Covered under 3 yr /36000 mile warranty



Ford dual OEM Motorcraft batteries relocated to separate battery box. Covered by 3 yr / 36000 mile warranty





AM/FM/RBDS/WB Heavy Duty Radio JHD1130



PRODUCT FEATURES

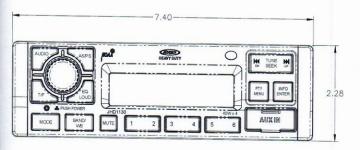
- 12V DC power
- · Max output power: 40W x 4
- Electronic AM/FM tuner (US/Euro)
- NOAA 7-channel Weather band
- · RBDS with PTY search
- Front AUX input
- Amber backlighted control panel buttons
- 12/24 hour selectable clock with Super-Cap 30 day power backup
- · Encoder knob volume control

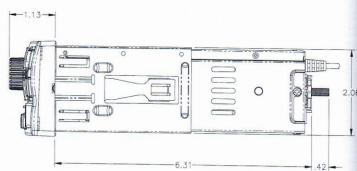
- Beep tone confirmation (user selectable On/Off)
- EQ presets (Flat, Rock, Pop, Classical, User settings)
- Conformal coated PCB
- · Preset tuning
- · Non-volatile memory
- Low battery alert (Voltage < 10.8 VDC)
- IR remote ready (remote sold separately)
- Channel lock





AM/FM/RBDS/WB Heavy Duty Radio JHD1130





General Specifica	atio	ns			
Power System			12 V	/DC	
Operating Voltage R	lang	e	9 V to		
		Standby	0		
Current Draw @ 12	\mathbf{V}	Nominal	1.3 A		
		Maximum	9.5 A		
Operating Temperat			-22°F to 185°F	-30°C to 85°C	
Storage Temperatur			-40°F to 185°F	-40°C to 85°C	
Maximum Relative 1	Hum	idity	95%		
Overall Dimensions			6.3" x 7.4" x 2.1"		
Product Weight (unj	pack	aged)	2.75 lbs.		
	cific	cations			
FM Sensitivity	ecifi	cations		uV	
FM Sensitivity AM Sensitivity	ecific RMS		2	20 uV	
AM Sensitivity Output Power	RMS		18	20 uV W x 4	
FM Sensitivity AM Sensitivity Output Power	RMS Max	S imum	18 40	20 uV	
FM Sensitivity AM Sensitivity Output Power	RMS Max	S imum	18 40	20 uV W x 4 W x 4	



2367 CENTURY DRIVE • GOSHEN, INDIANA 46528 • 1.800.348.7440

ELDORADO BUS BODY FRAME CONSTRUCTION

neluder step @ 3.08 and 3.09

3.0 Body Construction - General Frame Construction

Manufactured from all steel products, the floor, roof, side walls, rear wall, driver halo assembly and entry door assembly are all wire welded (MIG) together to form an integral steel frame that is thoroughly coated in our primer paint shop, then mounted with specified hardware to the rubber body mount points (pucks) supplied by the chassis manufacturer. Once joined to the chassis, the bus finishing process begins.

3.0.1 Floor frame construction and assembly -

- 3.0.1.1 Cross Members -- The floor cross members form the base structural support for the rest of the frame components. Our cross members are constructed of 14 gauge steel, formed to a capital "C" shape. Cross members over the fuel tank are made to provide the clearance needed to conform with FMVSS301 and include formed internal reinforcements welded in place for additional strength. All additional longitudinal and latitudinal structure is flush welded in place to form a one piece floor upon completion.
- 3.0.1.2 Steel "Hat Posts" 1"x1"x4"x1" run the length of the floor between cross members and are welded into place.
- 3.0.1.3 Seat Track High Strength Low Alloy roll formed steel seat track is welded to the 4" dimension of the hat posts, providing even more strength to the floor structure.
- 3.0.1.4 Steel C Channel 1"x1.5" C channel is welded in between cross members the full length of the floor in 5 places. Coupled with the Hat Posts this provides a one-piece strong "ladder" type frame for the flooring.
- 3.0.1.5 Wheel Wells -- Constructed of 14 gauge steel, wheel wells are also welded in during the floor construction process. All seams in the wheel well are welded to create a one piece water resistant wheel housing structure. The wheel wells also provide additional strength to the body assembly, when welded in place.
- 3.0.1.6 Structural Steel Angle 1/8" thick 1.5" x 2.5" structural steel angle is used the full perimeter length of each floor assembly, welded to the ends of all floor cross members. This provides not only a flat plane for joining the sidewall assembly, but also ties all cross members together and provides additional side impact resistance.
- 3.0.1.7 Additional structure When adding vertical stanchions, wheel chair lifts and/or tie down options, additional structure is welded into the floor at locations specified by our engineering department on CAD drawings.

3.0.2 Sidewall Construction -

- 3.0.2.1 Sidewall vertical member The heart of our sidewall is the vertical structure, a roll formed 18 gauge steel capital "C" channel with 8 bends that create extreme strength and rigidity. The vertical member is installed in full lengths between windows and in shorter sections above and below window frame centerlines. Additional vertical structure is used at both ends of the sidewall enabling the structure to withstand the forces applied by the vehicle when in motion. Using the open C member also enables a thorough primer application.
- 3.0.2.2 Steel Tubing -1" x 1" 16 gauge steel tubing is welded horizontally between vertical members to frame all lower window openings and 1"x 3" 16 gauge steel tubing is

- welded in to frame all upper windows openings. The 3" wide steel tube supplies a structural mounting surface for shoulder belt attachment and has been pull tested to federal standards.
- 3.0.2.3 Seat Track –High strength low alloy roll formed steel track is welded to each vertical sidewall member down each sidewall below the window frame. While serving as a seat attaching device, it adds excellent structure to the sidewall and also provides additional side impact resistance.
- 3.0.2.4 Wheelchair Options –Additional sidewall tube structure is added to form the perimeter frame for mounting of the wheelchair door assembly.
- 3.0.2.5 Full length steel tubing -1"x1" 16 gauge steel tubing is MIG welded to the sidewall bottom and top at each vertical member for attaching to the floor and roof sections, respectively.

3.0.3 Rear Wall Construction -

- 3.0.3.1 Rear wall vertical member The vertical sidewall capital "C" channel with 8 bends is also used in the rear wall assembly. Full length structure is used at varying places, depending on choice of rear window, or rear door. Shorter cut pieces are used above windows and doors. Additional side windows used with the rear door also change the configuration.
- 3.0.3.2 Steel Tubing -1"x1" 16 gauge steel tubing is welded horizontally between vertical members to provide a window frame in the standard product, and used as an upper door frame in the optional rear assembly.
- 3.0.3.3 Full length steel tubing -1"x1" 16 gauge steel tubing is stitch welded to the rear wall top and bottom as in the sidewall assembly.

3.0.4 Roof Construction -

- 3.0.4.1 Roof Bows Radius formed one-piece 16 gauge steel roof bows formed as a modified hat post design are placed on 16" centers for exceptional strength, eliminating the need for any "roll bars" required by builders using spacing as wide as 48" on center. including 4 bends in the web similar to our vertical sidewall steel provide a roof structure capable of taking severe loads. They are then capped with top flat pieces from flange to flange to provide abundant surface area for securing the exterior roof material. Each bow is welded to the 1" tubing referenced below.
- 3.0.4.2 Steel Tubing 1"x1" 16 gauge steel tubing is welded to the full perimeter of the roof for mating to the sidewall and rear wall, with short vertical pieces providing support on the front and rear ends. The 3" wide steel tube supplies a structural mounting surface for shoulder belt attachment and has been pull tested to federal standards.
- 3.0.4.3 Steel Plate 3" wide is welded full length longitudinally on each side of the roof to provide further strength and stability to the roof structure.
- 3.0.4.4 Steel Plate of varying dimensions is welded into the roof structure between bows to provide mount points for items such as stanchions for secure mounting whenever the items are not placed directly beneath a roof bow.

3.0.5 Driver Compartment Overhead Halo -

- 3.0.5.1 Steel Tubing 1"x1" 16 gauge steel tubing is cut and jig welded into an integrated one piece structure spanning from the front roof bow of the body to the newly cut roof line of the cab. Also created during the structure manufacture is the housing for mounting the electronic circuit board.
- 3.0.5.2 11 Gauge Steel formed to make brackets used to mount to the chassis roof.

3.0.6 False Floor (Cab to body transition) -

3.0.6.1 Steel Tubing $-2^{\prime\prime}$ x2 $^{\prime\prime}$ 16 gauge steel tubing is welded together forming a flat body floor transition from the step area back to the actual body area. An overhang on the curbside provides a secure attach point frontally for the entry door frame added later.

3.0.6.2 Structural steel angle – 11 gauge 1.5"x1.5" structural angle is added in short lengths five places to provide attachment points to the chassis floor.

3.0.7 Interior Vertical Transition Frames -

3.0.7.1 Steel Tubing – 1"x1" 16 gauge steel tubing is used vertically and a ladder type assembly is made welding the 1x 1 tube to .75"x.75" 11 gauge steel tube that is used horizontally in the assemblies. These pieces transition from the body fronts on each side to the driver halo side assembly and the entry door frame assembly on the curbside.

3.0,8

Entry Door & Step Assembly Frame -

3.0.8.1 Steel Tubing – 1"x1" 16 gauge vertical and .75"x.75" 11 gauge horizontal steel tube is cut to length and welded together in a ladder type construction forming a rigid frame for attaching the entry door/step assembly.

3.0.9

Entry Door/Step Assembly -

3.0.9.1 11 Gauge Steel – The step riser/tread piece is manufactured from one-piece 11 gauge steel and uses 90° bends at all risers and treads. The bottom tread also adds an additional 90° bend for additional strength and safety. Upper and lower side pieces are then welded to the vertical tubing and step riser/tread.

APPLICATION OF EXTERIOR SIDEWALL MATERIAL



FIBERGLASS/FRP/COMPOSITE SIDEWALLS

Composite FRP exterior sidewall panels are installed using Manus Bond 75-UHVFC solvent and isocyanate-free structural adhesive. The adhesive is applied to the vertical and horizontal frame members in the sidewall structure, then the one piece panel is set into place and clamped until the structural adhesive reaches initial "green" strength that gives it the ability to support the weight of the sidewall panel without additional aid.

Manus 75-UHVFC is used due to the excellent adhesion, yield strength and elongation percentage of the product once cured. Designed as a replacement for mechanical fasteners, the adhesive also allows the material to expand and contract without undue stress since the elongation of the product is 250%. Faster curing two-part adhesives can be used but their lack of elongation can lead to cracking of the skin due to stresses applied by typical heat/cold cycles encountered.

Manus 75-UHVFC is also the adhesive used by Eldorado to ensure permanent bonding of the plywood floor substrate to the coated steel frame members.

A product data sheet for Manus 75-UHVFC Structural Adhesive is attached for further information.

Should any further questions arise, please contact your Eldorado Bus representative.

PAINTED ALUMINUM OR STEEL SIDEWALLS

Mill painted aluminum or galvanized steel exterior sidewall panels are installed using a combination of Very High Bond tape with an acrylic adhesive and Manus Bond 75-UHVFC solvent and isocyanate-free structural adhesive. The side vertical wall bows have two flanges facing the exterior. Tape is applied to one vertical flange for fast adhesion while Manus 75-UHVFC structural adhesive is applied to the other vertical flange. The metal is put in place then pressure is applied by rollers to secure the metal to the tape and ensure good contact with the bead of structural adhesive.

As normal practice dictates, metal is overlapped moving up the sidewall for water shedding. The metal is

held in place initially by the VHB tape, then subsequently by window ring flanges and belt line molding that is secured with stainless steel fasteners. The structural adhesive "greens" (initial grab strength) within two hours, depending on temperature and humidity conditions, then moves to a full cure within a few days.

As above, product data sheets are attached for Manus 75-UHVFC and also the VHB tape for your information. A pictorial information sheet of the process is also attached to enable a visual understanding of the process as well.

PASSENGER ENTRY DOOR

36" WIDE ROUGH OPENING WELDED ENTRY ASSEMBLY. A&M MANUFACTURING PRODUCED ENTRY DOOR LEAVES AND A&M ELECTRIC DOOR HEADER MECHANISM (MANUAL IS AVAILABLE - OPTIONS MAY DICTATE DIFFERING DOOR SIZE). FULL HEIGHTH 1/8" THICK TEMPERED SAFETY GLASS IN EACH DOOR LEAF IS FMVSS COMPLIANT AS-2 TINTED. LEAF FRAMES ARE INTERLOCKED ALUMINUM EXTRUSIONS WITH TOUGH, CLEAR COAT ANODIZED 204 R1 RATED FINISH FOR CORROSION PROTECTION AND INTEGRATED, OVERLAPPING FLEXIBLE SEALS (APPROXIMATELY 2.5" EACH). FRONT LIFT 138/139" WB MODELS CAN ONLY USE A 32" WIDE DOOR.

Wheelchair Door and Rear door -

REAR EMERGENCY with WINDOWs / 20% LIGHT TRANSMITTANCE / 60" WIDE X 22.5" HIGH Latch system with door ajay light and buzzer Wheelchair Double Door with windows / 20% LIGHT TRANSMITTANCE / 49.5" wide exceed ADA height Latch system with door ajar light, buzzer and LED light Tied to Interlotive interlock system which prevents vehicle from being shifted into drive while WC door is open and lift in operation

The HELP® Energy Absorbing Bumper

The patented HELP® Bumper (High Energy Level Polymer) works actively to absorb energy from an impact and transmits the forces away from the vehicle chassis, shielding the vehicle from any harm. Unlike a steel or foam core bumper, the HELP® bumper can form back to its original molded shape without internally damaging the bumper, losing its energy absorbing properties and damaging the vehicle, even after multiple impacts. Our HELP® technology, combined with inmold paint and an aluminum back structure, decreases downtime for your vehicle.



Romeo RIM, Inc.

74000 Van Dyke Avenue Romeo, MI 48065





Main (586) 336-5800 Fax (586) 752-1854 www.romeorim.com

Warranty Policy

Warranty:

Romeo RIM, Inc. ("Romeo RIM") warrants that the HELP Energy Absorbing Bumper Systems ("HELP Bumper System") shall be free from defects in materials and workmanship and shall conform to the applicable specifications for a period of one (1) year from the date of shipment, subject to the following conditions and limitations. This warranty applies only to parts supplied by and assembled into the finished product by Romeo RIM.

This warranty does not cover, and in no event shall Romeo RIM be liable for, the following: (a) damage caused by improper installation, storage or maintenance, (b) misuse, abuse or alterations, or (c) acts of God, normal wear and tear and deterioration, improper environmental conditions.

Romeo RIM is committed to continuous product improvement; therefore, specifications are subject to change without notice.

Limitations:

Romeo RIM's liability for breach of this warranty shall be limited to repair or replacement of defective or nonconforming parts at Romeo RIM's sole discretion.

THE **FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES**, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR USE, EVEN IF THAT PRUPOSE IS KNOWN TO ROMEO RIM, INC.

Claims Procedure:

All claims must be presented in writing to Romeo RIM via email to <u>quality@romeorim.com</u> within ninety (90) days of discovery of a manufacturing or material defect, or suspected defect, or such claim will be barred from recovery under this warranty.

Such written notice must include the purchaser's name and address, the date of purchase, plus a description of the alleged defect or nonconformance. Romeo RIM shall have a reasonable period of time to verify the defect of nonconformity and may request additional information from purchaser to verify the claim. Upon request, the purchaser shall submit a copy of the original invoice or other materials to Romeo RIM. Failure to provide written notice in accordance with this provision shall bar the purchaser from relief under this warranty.

Verified Warranty Claims:

The cost of shipping replacement parts, returning defective parts, replacement parts, materials and labor will be assumed by Romeo RIM, Inc. Romeo RIM will specify the means of transportation and packaging requirements for any shipments from purchaser to Romeo RIM. With the prior consent of Romeo RIM, purchaser's personal may perform labor to repair or replace defective parts. Any such labor will be performed at a preapproved hourly rate. Romeo RIM will not reimburse the purchaser for labor costs associated with normally scheduled inspection, packaging, and/or assembly operations.

IN NO EVENT SHALL ROMEO RIM, INC. BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF THE PRODUCTS, OR FOR ANY ECONOMIC LOSS, PHYSICAL HARM, OR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR SPECIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PURCHASER'S PROSPECTIVE PROFITS OR GOODWILL OR FOR ANY EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM THE SALE, HANDLING, OR USE OF THE PRODUCT SOLD HEREUNDER.





About the HELP® Bumper

The HELP® Bumper Technology

At Romeo RIM, we utilize **high-quality custom polyurethanes** in the reaction injection molding process for our HELP® Bumpers (High Energy Level Polymer). As steel rusts, polyurethane remains bright and shiny and retains its original shape after years of exposure and impact. Romeo RIM offers **in-mold priming and painting** in our manufacturing process.



In-mold paint is sprayed onto the tool and chemically bonds with our custom polyurethane blend when injected into the mold. This produces a desired gloss and appearance our customers love while obtaining flexible properties to move with the bumper upon impact. With no cracks or chips, the paint remains where you'd expect it.

In addition to in-mold paint, we offer **multiple back structure options**. Our highly

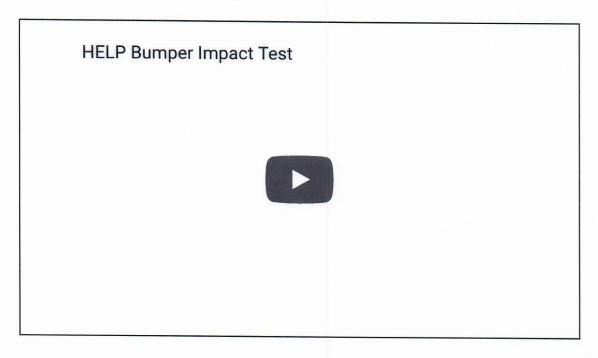
engineered aluminum back structures can include multiple features like mounting holes, fasteners for bike racks, and customized shapes upon the customer's request.

We work with our customers to select a bumper system that meets their requirements for impact protection for vehicles from 5,000 pounds to 60,000 pounds. If we can't match one of our many existing products with our customers needs for performance, fit, mounting or aesthetic look, we will collaboratively work to create a new custom application just for them. We will work with the customers studio and engineering team to generate the "A" surface look





The HELP® Bumper Performance



The HELP® bumper works actively to absorb energy from an impact and transmits the forces away from the vehicle chassis, shielding the vehicle from any harm. Unlike a steel or foam core bumper, the HELP® bumper can form back to its original molded shape without internally damaging the bumper, losing its energy absorbing properties and damaging the vehicle, even after multiple impacts. Our HELP® technology, combined with in-mold paint and an aluminum back structure, **decreases downtime** for your vehicle while saving you time and money that would otherwise be spent on maintenance and replacement parts.

HELP® Bumper System features:

- Reaction Injection Molding
- Energy Absorbing
- Puncture Resistant
- In-Mold Prime and Paint
- Withstands Multiple Impacts
- Styling Lines into the A-surface of the HELP® Bumper
- Multiple Back Structure Options
- Decreases Downtime
- Approved for 60,000 lb. Vehicles
- 1 -3 Bumper Modules with Breakaway Corners





Warranty

Help Bumper Warranty

History

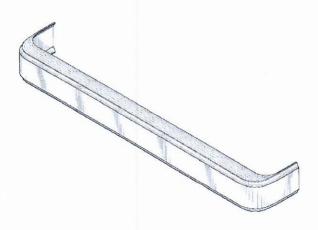
The HELP® Bumper is created by
Romeo RIM, a complete composites
solution company in Romeo, Michigan since
1982. The birthplace of Romeo RIM sits on the
grounds of an old tire and rubber manufacturing
company that used the **reaction injection molding** process also known as RIM. Using this
same process technology, Romeo RIM was
inspired to develop a RIM bumper that has similar
energy absorbing properties as a tire, yet more
durable and puncture resistant like a bumper.





The patented and trademarked High Energy Level Polymer technology, otherwise known as HELP®, is a custom polyurethane blend that gives the bumper modules the mechanical properties to maximize the elastomer values which absorb energy. Romeo RIM continues to innovate while still using advanced tried and true materials proven in the industry.

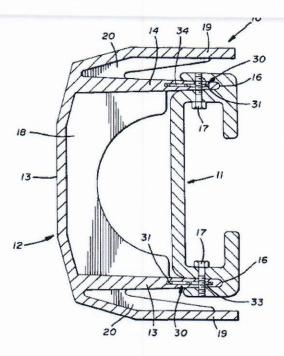
Patents



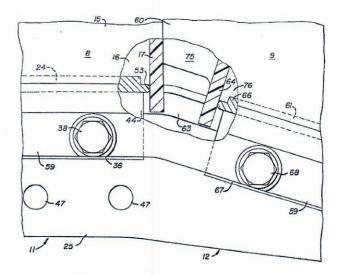
Vehicle Bumper







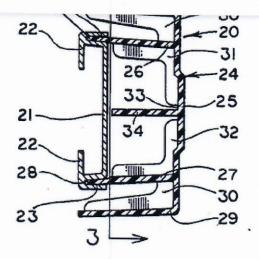
Reinforced Energy Absorbing Bumper



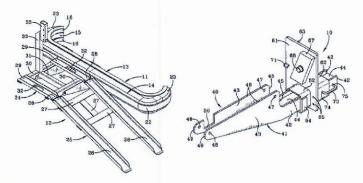
Semi-pneumatic Energy Absorbing Bumper System







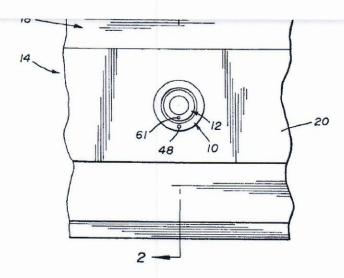
Energy Absorbing Vehicle Bumper



Energy Absorbing System for Attaching a Trailer Device to a V_{\cdots}







Apparatus to Attach Proximity Sensor

Contact Us for More Information

More HELP Bumper Information

First Name *:	Last Name *:		
Email Address *:	Office Phone :		
Company Name :	Ship To Region :		
Description :			



NCL1000-2 WHEELCHAIR LIFTS

THE ONE-STOP-SHOP FOR ALL YOUR MOBILITY TRANSPORTATION NEEDS

Since 1963, BraunAbility[®] has been the trusted industry leader. Our wheelchair accessible vehicles and lifts are designed to meet your specific needs, with performance, safety, and reliability that will keep your fleet up and running day after day, year after year. With the most diverse product portfolio of any mobility vehicle company in the industry, BraunAbility delivers the right solution to every commercial mobility need.

NCL1000-2 CENTURY SERIES WHEELCHAIR LIFT

STANDARD FEATURES

- •1,000-pound lifting capacity
- · NHTSA-compliant
- Fully automatic FMVSS 403-compliant lift, operated by an attendant
- · Interfaces with OEM interlocks
- · Long-lasting LED lift-mounted lights
- · Side or rear door application*
- · Platform options up to 37" wide
- · Floor to ground lift heights up to 48"
- · Made in the USA
- Vehicle suspension dynamics affect body roll and FMVSS 404 platform tilt allowance. Before selecting a lift with a 1000# rated capacity, ensure this load does not induce excessive platform tilt.

SAFETY FEATURES

- Locking mechanical Inboard Barrier (IB), powder coated yellow for safety and high visibility, prevents operation if occupied
- Visual and audible warnings alert both passengers and attendants to unsafe conditions
- · Interlocked gas spring activated outer barrier
- · Dual handrails for security and convenience
- · Pump design prevents platform folding when occupied

EASE OF USE FEATURES

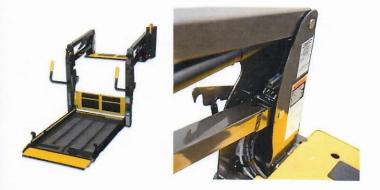
- · Hand-held control box with illuminated functions
- Durable redesigned baseplate reduces lift weight, and allows for quicker and easier service
- Bridging feature permits the wheelchair user to board the lift from sidewalks
- · Equipped with an adjustable anti-rattle feature
- Lift-Tite[™] system stows the lift platform securely while the vehicle is in transit
- Pump module with removable cover offers easy access to all components
- · Integrated back-up pump

BRAUNABILITY'S UNRIVALED SERVICE

Every BraunAbility commercial mobility product comes with our team of commercial mobility experts. They will work to find the ideal mobility transportation solution, no matter the requirements, complexity, or scale. And after you make a purchase, they will continue to work just as hard to offer you all the service and repair support you need.

The NC1000-2 Century Series Wheelchair Lift from BraunAbility

With dual hydraulic lift arms, and a design that has withstood the test of time, the Century Series offers all the benefits and quality of a BraunAbility wheelchair lift in a streamlined, economical package. The simplified electrical system offers trouble-free operation, while the non-hydraulic spring-loaded outer barrier keeps the wheelchair safely and securely on the wheelchair lift platform throughout the lifting cycle. In addition to all these standard features, the NCL1000-2 also comes equipped with an increased lifting capacity of 1000 pounds.



The NCL1000-2 Century Series also features new and improved inboard barriers, baseplates, vertical channels, and lower parallel arms for a more rigid and stable ride.

BraunAbility offers several models of the Century 2 Wheelchair Lift to address the right application, including usable platforms of 33" x 51", 34" x 51", 34" x 54", as well as 37" x 51" and 37" x 54". The models also vary based on the placement of the front or rear pump module, the lifting capacity (1,000 pounds), and the overall floor-to-ground lift height (up to 48"). The Century 2 Wheelchair Lift is available with or without the handrail belt. See your BraunAbility dealer or braunability.com for lift models available for your specific application.





631 West 11th Street • Winamac, IN 46996 (574) 946-6153 | 1-800-THE-LIFT www.braunability.com/commercial

All illustrations, descriptions and specifications in this brochure are based on the latest product information at the time of publication. BraunAbility reserves the right to make changes at any time without notice. © 2019 The Braun Corporation 405245



An ISO 9001:2015 Registered Company

B-GTWY508 Fast Idle, Shift Interlock, I/O

2020 - 2022 Ford F250-F550 - 6.2L and 7.3L Engine 2020 Ford F250-F550 - 6.7L Diesel (B-GTWY508-G)

2021 Ford F650-F750 - 7.3L Engine

2021 Ford F650-F750 - 6.7L Diesel (B-GTWY508-G)

2021 - 2022 Ford E-Series

OK for 2023/14



Introduction

The Gateway 508 is a wheelchair lift safety interlock which will only work with the ignition on. It will enable the lift when certain vehicle safety conditions are met, and will lock the transmission shifter in Park when the lift door is open and/or the Park Brake is applied. The Advanced Fast Idle System (AFIS) elevates engine idle speed in response to a number of triggers in order to assist electrical or mechanical systems on the vehicle. The Brakemax option (B-GTWY508-B) will automatically engage the OEM Tow Haul mode whenever the vehicle is started. The GTWY508 can also be installed with the Park Crank Only Module (PCOM) which will allow the vehicle to only be started in the Park position (GTWY508-C).

Installation Instructions

Disconnect the vehicle's battery before proceeding with installation.



CAUTION

All electronic products are susceptible to damage from Electrostatic Discharge or ESD. Ground yourself before handling or working with the module and harnessing by first touching chassis ground, such as the barrel of the cigarette lighter.



IMPORTANT—READ BEFORE INSTALLATION

It is the installer's responsibility to route and secure all wiring harnesses where they cannot be damaged by sharp objects, mechanical moving parts and high heat sources. Failure to do so could result in damage to the system or vehicle and create possible safety concerns for the operator and passengers. Avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Avoid radio frequency energy from antennas or inverters next to the module. Avoid high voltage spikes in vehicle wiring by always using diode clamped relays when installing upfitter circuits.

Gateway 508 Module

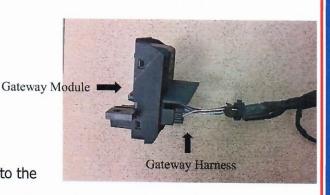
Remove the lower dash panel below the steering column and find a suitable location to mount the module. Verify this location is in an area away from external heat sources (engine heat, heater ducts, etc. Do not mount the module until all wire harnesses are routed and secure. The last step of the installation is to mount the module. When installing the harnesses, leave several inches of take-out in order to remove the module if necessary.

InterMotive Inc. 12840 Earhart Ave Auburn, CA 95602 Phone: (530) 823-1048 Fax: (530) 823-1516 Page 1 of 14

www.intermotive.net products@intermotive.net GTWY508-030422-INS

Ford 24-pin Data Link Harness (6-pin connector)

- 1. Locate the vehicles Gateway Module. It will be mounted below the lower left dash panel.
- 2. Remove the harness behind the Gateway module by pressing the locking tab and pulling outward.
- 3. Plug the Female side of the Intermotive Gateway Harness into the back of the Gateway module. Ensure the connection is fully seated and secured by the locking tab.
- 4. Plug the Male side of the Intermotive Data Link Harness into the Gateway harness.
- 5. Plug the free end of the Data Link harness into the mating 6-pin connector "DLC" on the GTWY508 module.
- 6. Secure the Gateway harness so that it does not hang below the lower dash panel.





LED Display Panel

- 1. Locate a suitable position on the dashboard within view of the driver for mounting the LED Display Panel. The length of the display harness is 40". This is the maximum distance the display can be mounted from the GTWY508 module.
- 2. Drill a 5/8" hole in the dashboard where the center of the display will be located. Use caution not to damage anything behind the dashboard.



- 3. Attach the 4-Pin LED display harness to the GTWY508 Module's 4-pin connector.
- 4. Run the free end of the display harness under the dash and out through the 5/8" hole.
- 5. Attach the end of the display harness to the LED Display Panel.
- 6. Ensure panel is level, and secure using the supplied screws.

Phone: (530) 823-1048 Fax: (530) 823-1516 Page 2 of 14

Control Outputs, Input, and Lift Inhibit Connections - 12-pin I/O connector

The GTWY508 provides three ground side configurable outputs and one configurable input/output. The outputs can provide vehicle information such as Vehicle Speed, Park, Park Brake, etc., and are configured per customer requirements at InterMotive prior to shipping. These outputs can be used to control upfitter circuits and can sink up to 1/2 amp. The input pin can be connected to a ground side switch to activate Fast Idle or Shift Lock. Grounding the Lift Inhibit Pin 2 input will prevent GTWY508 from supplying power on Vehicle Secure/Lift Power Output pin (4 pin connector). In addition to the above, there is also a dedicated Shift Lock ground activated input on pin 11 which can be connected to an emergency door switch or other equipment. **Note**: The PCOM option requires one of these outputs to provide Park.

A 12 pin mating connector and seven terminals (two extra) are provided. To use any of these outputs, properly crimp a connector terminal provided to the installer supplied wire using the correct crimping tool (Molex Part# 11-01-0197), and insert into the correct connector pin housing. The pin MUST be properly oriented for it to fully seat and click into place. The largest wire that can be used with these terminals is 16 AWG. Plug this connector into the GTWY508 module's 12-pin connector.

Shift Lock Control Input

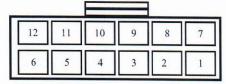
Grounding Pin # 11 on the 12 Pin connector will lock the transmission shifter if the vehicle is in Park. This can be used to prevent the vehicle from driving when equipment has not been properly stowed or an emergency door is open, etc.. This can be connected to any number of grounding switches (connected in parallel) which can effectively "lock the vehicle down".

12-pin Input Output connector pin out definition

- Pin #1 Yellow Shift Lock Solenoid
- Pin #2 Inhibit input Ground to Inhibit Lift
- Pin #3 I/O 2 Configured output
- Pin #4 I/O 3 Configured output
- Pin #5 Green Door Ajar Input Ground Signal (Door Ajar Panel Option)
- Pin #6 Not Used
- Pin #7 Red To Pin #12
- Pin #8 White Tow Haul Switch Input (BrakeMax Option)
- Pin #9 I/O 1 Configured output
- Pin #10 I/O 4 Configured I/O Pin
- Pin #11 Dedicated Shift Lock input ground to activate Shift Lock
- Pin #12 Red To Pin #7



12 Pin I/O Connector

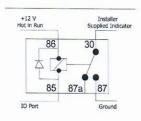


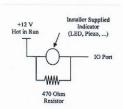
Back of Connector

Control Outputs, Input, and Lift Inhibit Connections - 12-pin I/O connector (continued)

Note: When using the I/O port outputs to drive installer supplied low current devices, such as LED's or Piezo buzzers, a small amount of current leakage may cause the low current device to activate when the pin is inactive. This is indicated by the LED turning on dimly or the Piezo buzzer sounding faintly when the output is inactive (Conditions not met).

To correct this, install a 470 Ohm 1W resistor across the low current device (**Digikey Part # 470WCT-ND**). Or, drive a relay with the I/O output to switch ground to the low current device (**Digikey Part # PB682-ND**).





Shift Lock Harness

1. Remove the upper and lower steering column covers by removing the 3 screws in the lower column cover.



- 2. Locate the Shift Lock (4-pin) harness.
- Unplug the Shift Lock connector.
- 4. Plug the OEM Shift Lock connector into the mating connector on the GTWY508 harness.
- Plug the 4-pin connector on the GTWY508 harness into the mating connector on the OEM Shift Lock harness.



Fast Idle

Fast Idle is done over the CAN network on all vehicles **except** the F250-F750 with a 6.7L diesel engine (B-GTWY508-G). Please follow the instructions below to install the discrete wires to enable Fast Idle.

6.7L Diesel ONLY

- Locate the Customer Access 22-pin harness. It will be located behind the passenger kick panel on the F250-F550 and under the hood on the F650/F750. (see picture below)
- 2. The mating 22-pin pigtail is included with the vehicle and should be located in the vehicle's glovebox.
- 3. Using solder and heat shrink, connect the following wires together: *One of the outputs must be configured to SEIC
- White wire from the Intermotive harness (840-00058) to the White/Brown wire of the OEM 22-pin pigtail.
- Yellow wire from the Intermotive harness (840-00058) to the Yellow/Green (Pin 7) wire of the OEM 22-pin pigtail.
- Green wire from the Intermotive harness (840-00058) to the Green wire of the OEM 22-pin pigtail.
- Plug the terminal on the end of the Yellow wire into either pin
 3, 4, 9, or 10 (depending on how the module is configured) on the 12 pin connector.



Back of Connector



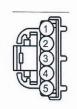
Location of Customer Access 22-pin harness on F650/F750 (under hood)

BrakeMax (B-GTWY508-B Option)

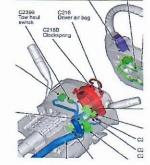
The BrakeMax option will automatically engage Tow Haul mode when the vehicle is started. This is done over the CAN network on all vehicles **except** the Ford E-Series. Please follow the instructions below to install the discrete wires to enable the BrakeMax option (Ford E-Series only).

2021 Ford E-series and Ford F650/F750 ONLY

- Locate the OEM Black 5-pin tow-haul switch connector (C2399) located on top of the steering column. Locate Pin #2, Brown/Green wire.
- Attach the GTWY508 12 Pin connector Pin #8 White wire to the OEM Black 5-pin tow-haul switch connector Pin #2, Brown/Green wire. Solder and heat shrink or tape the connection point.
- 3. Route the wire harness and connect to Pin #8 at the 12-pin connector.



Front of Connector



OEM connection for Brake-Max option.

PCOM - (Park Crank Only GTWY508-C Option)

The GTWY508 can be installed with the Park Crank Only Module (PCOM) which will allow the vehicle to only be started in the Park position (GTWY508-C).

PCOM Ignition Switch Connectors

- 1. Remove the under dash panel and the steering column shroud.
- 2. Locate the OEM 7-pin connector attached to the ignition switch under the steering column.
- 3. Locate the Blue-White wire pin #7. This wire is located on the bottom of the connector.
- 4. Cut the Blue-White wire between the harness and the connector.
- 5. Attach the harness side of the Blue-White wire to the Yellow wire from the PCOM Module using solder and the supplied heat shrink tubing.
- 6. Attach the connector side of the Blue-White wire to the Red wire from the PCOM Module using solder and the supplied heat shrink tubing.
- 7. Attach the PCOM Black Park Input wire to the GTWY508-C I/O port that provides a ground signal when in Park. The actual pin# depends on the customers configuration of GTWY508-C.
- 8. Secure the PCOM501B module, ensuring there is not strain on the wires.
- 9. Reinstall the steering column shroud.



Lift Connector 4-pin

This 12 inch harness contains the ignition power, lift power/vehicle secure, and lift door circuits. The mating harness is to be fabricated by the installer. The recommended mating connector is Molex Part #0050841040. The recommended mating terminals are Molex Part Number 0002081003. The recommended terminal extractor tool is Molex Part Number 0011010168. The recommended hand crimp tool is Molex Part Number 0638116800.

- Ignition Circuit Connect the Yellow wire Pin 2 of the white 4-pin connector to an 8A (or less) fused source which provides 12V when the key is on. This circuit provides the power for the Vehicle Secure output below.
- 2. Lift Power/Vehicle Secure Circuit Connect the Orange wire Pin 1 of the white 4-pin connector to the Vehicle Secure input on the lift. This circuit must only activate the vehicle secure input on the lift and must not draw more than 8.0 amps max. (see lift manufacturers installation instructions). Note: Do not power any other loads (i.e.: lights, motors, etc.) from this circuit that could cause the total current draw to exceed 8.0 amps.
- 3. Lift Door Circuit Locate the lift door switch circuit. Connect the Gray wire, Pin 4 of the white 4-pin connector to this circuit. Note: The door switch must provide a ground when the lift door is open. A switch that provides power with the door is open will not operate correctly.
- Plug the White 4-pin connector from the Lift Harness into the GTWY508 module connector marked "PWR RLY".

GTWY508 Module Mounting

Ensure all harnesses are properly connected and routed and are not hanging below the dash area. Mount the module as described on page one and secure using supplied screws or double sided tape.

Reconnect Vehicle Battery

InterMotive Inc. 12840 Earhart Ave Auburn, CA 95602

Phone: (530) 823-1048 Fax: (530) 823-1516 Page 7 of 14 www.intermotive.net products@intermotive.net GTWY508-030422-INS

Post Installation / Check List

The following checks must be made after installation of the system, to ensure correct and safe operation of the lift. If any of the checks do not pass, do not deliver the vehicle. Recheck all connections as per the installation instructions.

Begin the checklist with the vehicle in the following state:

- Lift stowed
- Lift Door Closed
- Park Brake set (PB)
- Transmission in Park (P)
- Ignition off (Key off). Wait until the module goes into "Sleep" mode which takes approximately 40 seconds.

Fast Idle Engage

Lift Door/Aux Door



Vehicle Secure/Lift Power Park Brake Park Shift Lock

- 1. Turn ignition key on (to "Run"), verify the module wakes up and all 5 LEDs illuminate for approximately 2 seconds, then turn off.
- 2. Verify that the Park LED, the Park Brake LED, and the Shift Lock LED remain illuminated.
- 3. Attempt to deploy the Lift. The Lift must not deploy with the Lift Door closed.
- 4. With key on, Lift Door open, Park Brake set and transmission in Park, all 5 LEDs will be illuminated. Attempt to deploy the Lift. Verify lift deploys, then stow the lift. **Note**: If the Lift does not operate, check the GTWY508 LIFT connector. Pin 4 should have 12V (Lift power input), and pin 2 should have 12V (Lift Power/Vehicle Secure output).
- 5. With key on, Lift Door open, transmission in Park, release Park Brake. Verify that the Park Brake (PB) LED goes out
- 6. Attempt to deploy the Lift. The Lift should not deploy.
- 7. With key on, Lift Door closed, Park Brake set, attempt to shift transmission out of Park. Verify transmission will <u>not</u> shift out of Park.
- 8. With key on, Lift Door open, Park Brake released, attempt to shift transmission out of Park. Verify transmission will <u>not</u> shift out of Park.
- 9. With key on, Lift Door closed, Park Brake released and the Service Brake applied, attempt to shift transmission out of Park. The transmission shift lever will now shift out of Park.

When an additional door (Aux Door), is open, the Door Ajar LED will blink on the display panel until the door is closed. If the **Lift Door** is open, the Door Ajar LED will stay on steady, taking priority over the additional door input.

DO NOT PUT VEHICLE IN SERVICE IF IT DOES NOT PASS ALL OF THE ABOVE TESTS!

Contact InterMotive at 530-823-1048 for technical assistance.

Post Installation (continued)

Fast Idle

The Fast Idle option has several "auto triggers" that will increase engine RPM. These include low battery voltage, air conditioner on, engine cold, and external switch input on pin #10 of the 12 Pin connector (I/O 4).

- 1. Press the Service Brake for 1 second. Fast idle will temporarily disengage anytime the brake pedal is pushed, but will automatically reengage after approximately 2 seconds once the Service Brake pedal is released.
- Exit Fast Idle mode by pressing the Service Brake and the Yellow Manual ENGAGE button together. Fast Idle will cancel and the Green LED will turn off. This will disable Fast Idle until the key or transmission range is cycled.
- 3. Shut down the engine and verify that all LED's turn off, which may take a few minutes. Do not activate any vehicle controls during this time (windows, mirrors, doors, etc.).

Setting Fast Idle RPM Speeds (900 RPM - 2000 RPM)

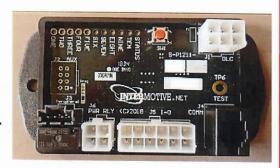
The GTWY508 has two separate configurable RPM settings (heater boost and the default setting). The heater boost is triggered on engine start-up and aids in warming up the engine quickly. The default setting is triggered by low battery voltage, air conditioner On, or external switch inputs. The two settings are changed by doing the following procedure:

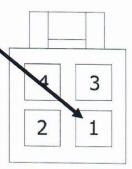
Heater Boost Configuration (Auto Triggers Enabled)

- Momentarily press the Red "Test" button <u>TWO</u> times. The Status LED on the module will flash a 2-2 code (two short flashes, a pause, and two more short flashes).
- 2. The vehicle RPM will increase to the currently configured setting.
- 3. To raise the RPM by 50, momentarily ground pin 1 on the 4-pin connector until the desired RPM is set.
- 4. Momentarily press the Red "Test" button **TWO** more times until no LED's are lit on the module.

Default Configuration

- Momentarily press the Red "Test" button <u>THREE</u> times. The status LED on the module will flash a 3-3 code (three short flashes, a pause, and three more short flashes).
- 2. The vehicle RPM will increase to the currently configured setting.
- 3. To raise the RPM by 50, momentarily ground pin 1 on the 4-pin connector until the desired RPM is set.
- Momentarily press the Red "Test" button <u>ONE</u> more time until no LED's are lit on the module.





Back of Connector

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Post Installation (continued)

BrakeMax (optional)

The BrakeMax option automatically engages Tow Haul mode when the vehicle is started.

- 1. Set the Park Brake and start the engine.
- 2. Verify that the "Tow/Haul" light illuminates on the shifter handle.
- 3. Press the Tow-Haul button. Verify Tow-Haul light is no longer illuminated. Mode is now deactivated
- 4. Turn off and restart vehicle. Verify tow-haul mode automatically reengaged.

Park Crank Only (optional)

The PCOM option only allows the vehicle to be started with transmission in Park.

1. Verify the starter will crank only when the transmission is in the "Park" position.

DO NOT PUT VEHICLE IN SERVICE IF IT DOES NOT PASS ALL OF THE ABOVE TESTS Contact InterMotive at 530-823-1048 for technical assistance.



An ISO 9001:2015 Registered Company

B-GTWY508 Fast Idle, Shift Interlock, I/O 2020 - 2022 Ford F250-F550 - 6.2L and 7.3L Engine 2020 Ford F250-F550 - 6.7L Diesel (B-GTWY508-G) 2021 Ford F650-F750 - 7.3L Engine 2021 Ford F650-F750 - 6.7L Diesel (B-GTWY508-G) 2021 - 2022 Ford E-Series



Gateway 508

The Gateway 508 initializes when the vehicle ignition is on. During initialization, the LED display panel connected to the Gateway 508 performs a prove-out for 2 seconds. After the initialization, the Gateway 508 obtains various vehicle data over the OBDII connector/network and all control logic is performed. When the Gateway 508 has been running and the vehicle ignition is turned to the off or accessory position, the module goes into a very low current consumption "sleep" mode. This may take up to 5 minutes.

In order to not interfere with possible scan tool communication, GTWY508 will refrain from transmitting CAN messages for 10 seconds if scan tool CAN communication is detected. If during these 10 seconds another scan tool message is received, an additional 10 seconds will be added to the end of the first 10 second timeout. When no scan tool messages have been detected for at least 10 seconds, GTWY508 will resume operation.

Advanced Fast Idle

The Advanced Fast-Idle System (AFIS) option of the Gateway 508 includes Charge-Protect as well as fully-automatic and manual engage modes. Charge-Protect is a feature that maintains vehicle charging system voltage by increasing and controlling vehicle idle speed when necessary. Whenever charging system voltage falls below a minimum voltage (determined by each bus manufacturer), this AFIS feature will increase idle speed and maintain fast idle until the user cycles the shifter, a safety condition is violated or the user manually disengages fast idle. The fully-automatic and manual engage modes also require that all safety conditions are met.

Safety conditions that must be met to engage or maintain Fast Idle operation Vehicle NOT moving
Service Brake NOT pressed
Vehicle Transmission in Park
RPM inside of safe operating range
Transmission Fluid Temperature below 250° F
Engine Coolant Temperature below 230° F

Control / Display Panel

The left side of the Control/Display Panel consists of one LED and a Manual Engage Switch. The green LED will illuminate when Fast Idle is in progress. The LED is also used for diagnostic code retrieval by an authorized service technician. The Manual ENGAGE button can be used to engage Fast Idle operation if all safety conditions are met.

Fast Idle Operation

Fast Idle may be initiated by either a manual or automatic Fast Idle trigger. The AFIS strategy can only command elevated idle when certain safety conditions are met (see above). Fast Idle operation will be terminated by a safety condition violation, or an automatic trigger going away. If a Fast Idle operation terminates due to a safety condition violation, automatic Fast Idle is unavailable until the transmission is cycled out of Park and back. Default Fast Idle RPM is 1500.

GTWY508 Operating Instructions (continued)

Manual Fast Idle Start Triggers

- LED panel manual ENGAGE button.
- Fast Idle Input ground applied to 12 Pin I-O connector Pin 10 (if configured such as from an A/C unit).

Automatic Fast Idle Start Triggers

- Charge Protection Battery voltage drops below bus manufacturer set minimum voltage.
- Chassis A/C Boost OEM A/C clutch engaged with ambient temperature above 70° F.
 Note: shutting off A/C does not disable Fast Idle until transmission range cycled.
- Heater Boost Ambient air temperature below 70° F and Engine Coolant Temperature below.

Fast Idle Disengagement

- Safety Condition Violation.
- Heater Boost Engine Coolant Temperature > 120° F. Removes Heater Boost trigger.
- Fast Idle I/O 4 (pin 10) is no longer grounded.
- Transmission Fluid Temperature above 250° F. Overheating condition.
- Ambient Temperature below 70° F (Only in A/C Boost).

NOTE: Fast idle will temporarily stop anytime the brake pedal is depressed, but will automatically reengage after approximately 2 seconds once the brake pedal is released. Fast idle may be manually cancelled by depressing the service brake pedal while simultaneously pressing the manual engage switch.

Manual Operation

To manually engage Fast Idle, the manual ENGAGE button must be pressed for at least a quarter second and released. The Fast Idle operation will begin when the button is released, not when first pressed. Holding down the button for more than five seconds will initiate a diagnostic routine that displays stored status codes from previous operations. If the driver accidentally enters this routine, it can be exited by cycling the vehicle's ignition off and then back on. To exit Fast Idle operation, the driver can simply press the service brake while simultaneously pressing the ENGAGE button.

Note: When Fast Idle is engaged, the OEM PCM will try to maintain the RPM constant regardless of engine load. There may be some RPM variations observed as loads are increased/decreased.

Lift Operation

The GTWY508 Intelligent Lift Interlock System is a microprocessor based system for controlling wheelchair lift operation. Lift operation will only be allowed when all of the following conditions are met:

The vehicle is in Park.

The Park Brake is applied.

The vehicle ignition is on.

The lift door is open.

The Lift inhibit switch (if installed) is not activated.

GTWY508 will not allow the vehicle to be shifted out of Park if the lift door is open, or if the Park Brake is set. GTWY508 does not lock the shifter when the passenger door is open.

The shift lock can also be activated through the 12 Pin connector Pin #10, if the proper configuration is installed.

If the vehicle has Daytime Running Lights, they will be activated when the Park Brake applied and the Ignition is On.

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GTWY508 Operating Instructions (continued)

When the vehicle is first started, or if the key is turned to the "Run" position, the five upper LED's on the display panel will illuminate for 2 seconds as a prove out of the LED's. The lower Icon LED's are backlit and will remain illuminated whenever the Gateway 508 module is awake. The module will stay awake for several minutes after the ignition is turned off. After prove out, the operation of the LED panel is as follows:

Fast Idle indicator - (Tachometer icon) Illuminates green when Fast Idle active.

Vehicle Secure/Lift Enable – (Lightening Icon). Illuminates green if the lift is enabled. This means that all conditions for lift operation have been met and the lift has been supplied a Vehicle Secure signal.

Door Ajar - Illuminates in red when the lift door is open.

Park Brake - (PB icon) Illuminates in red when the parking brake is applied.

Park - (P icon) Illuminates in red when the vehicle transmission is in the park range.

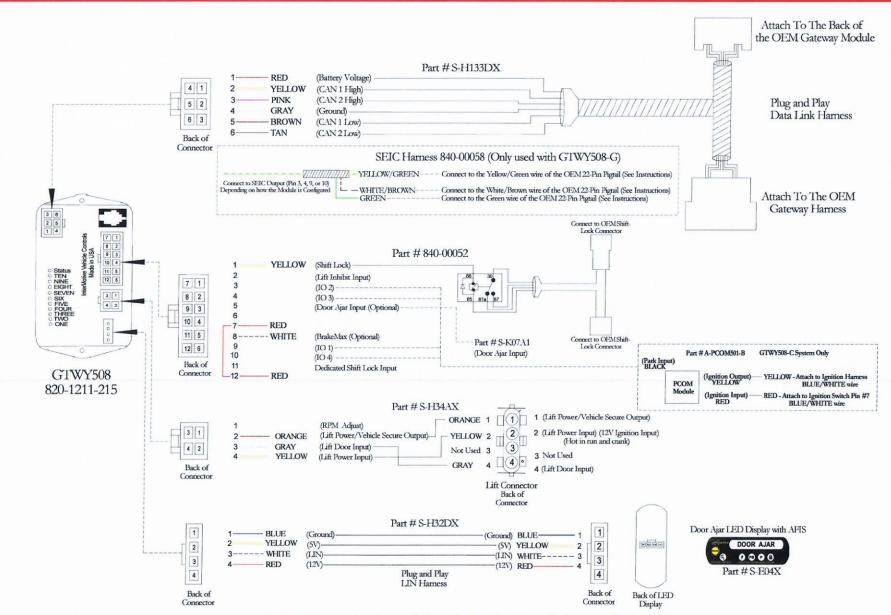
Shift Lock - (Lock icon) Illuminates in Red when transmission shifter is locked in Park. This occurs when the lift door is open and/or the Park Brake is applied. It can also be illuminated from an external command through the I/O 4 input at Pin #10 of the 12 pin connector (proper configuration required). If illuminated, the driver will not be allowed to shift out of Park.

Fast Idle Engage

Lift Door/Aux Door



Vehicle Secure/Lift Power Park Brake Park Shift Lock



Submit product registration at www.intermotive.net

If the GTWY508 fails any step in the Post Installation Test, review the installation instructions and check all connections.

If necessary, call InterMotive Technical Support at (530) 823-1048.

GTWY508-030422 CAD Page 14 of 14



TA77 Evaporator



Durable ABS cover with unique drain pan that promotes proper condensate removal (available in white, gray, and spring white)



A rear mounted freeblow evaporator that can be used as a tie-in with OEM components or as part of a complete Trans/Air system

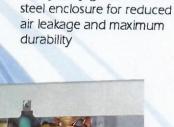




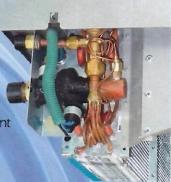
Blower assemblies come equipped with larger blower wheels for maximum air flow and motors utilize custom wound armatures for lower current draw and greater efficiency



4 Ton externally equalized, thermostatic expansion valves that precisely control refrigerant and prevent liquid slugging to the compressor(s) or starved evaporator(s)



Heavy Duty galvannealed

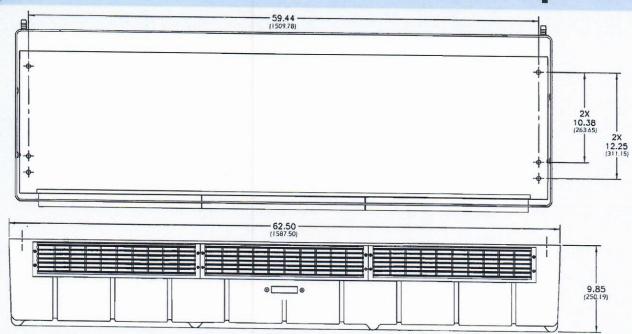


School & Commercial Bus Climate Control Design | Manufacture | Install | Service





TA77 Evaporator



General

- Freeblow air distribution
- Weight lb (kg): 100 (45)
- Box Size in (mm): 66 x 20 x 16 (1676 x 508 x 406)
- Cube ft3 (m3): 12.22 (.34)

Cooling Capacity

- BTU/hr: 57,458 (SAE) to 96,826 (IMACA) *

Heating Capacity

 BTU/hr: 67,374 (Actual capacity varies based on engine operating temperature and hot water flow rate

Cove

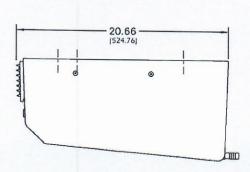
- ABS cover
- Integral drain pan
- (3) Multi-directional louvers
- Washable / reusable filter
- (2) 5/8 in ID drain hoses

Blower Assemlies

- (6) 4.5 in diameter blower wheels
- Amperage draw: 20.0 Amps @ 13.5 Vdc (10.0 Amps @ 27 Vdc)
- Total air flow 2220 ft³/min (3772 m³/hr) @ 0 static
- (3) Double shafted, single speed, permanent magnet motors

Evaporator Coil

- (2) Coils
- Each coil face area in² (cm²): 204 (1316)
- 3/8 in enhanced copper tubing
- Fins: 0.006 in raised lance, 10 FPI
- (3) Row



Electrical

- Color coded in fire retardant loom
- Low and high pressure swtiches

Expansion Valve

- (2) 4 Ton externally equalized thermostatic type

Available Options

- Metal cover for use with with OEM installation
- Heat coil used with positive isolator valve.
- Isolator valve and heater hose not inlauded.
- Coil corrosion protection

Warranty

- 2 year unlimited mileage limited warranty within the continental U.S. and Canada.
 Terms of Trans/Air's domestic and export warranty policies are available upon request.
- Actual BTU/hr is dependant on system combination and rating conditions used
- Specifications subject to change without notice
- All measurements in standard (metric)
- Contact Trans/Air for more information

480 East Locust Street, Dallastown, PA USA 17313 717-246 2627 | 800-673-2446 | Fx: 717-244-7088



SMC Condensers

Constructed of corrosion-resistant, powder-coated, galvannealed steel

Industry exclusive 2 year, unlimited mileage, limited warranty

SMC3L
& SMC2S
microchannel
skirt mounted
condensers
that can be
used with
almost every
standard
Trans/Air
evaporator/
compressor
combination

Lightweight microchannel coils increase condenser efficiency and require less reqfrigerant Flexible mounting pattern (optional channels available that attach condenser to vehicle stringer in lieu of standard floor mouting)

Optional non-powder coated screens, stacking kits, and winter cover kits



24 cubic inch filter drier with sight glass mounted in the rear for easy serviceability



10" weather-proof condenser fans provide maximum air flow

School & Commercial Bus Climate Control Design | Manufacture | Install | Service





SMC Condensers



Industry exclusive 2 year, unlimited mileage, limited warranty

& SMC3L
& SMC2S
microchannel
skirt mounted
condensers
that can be
used with
almost every
standard
Trans/Air
evaporator/
compressor
combination



Lightweight microchannel coils increase condenser efficiency and require less reqfrigerant Flexible mounting pattern (optional channels available that attach condenser to vehicle stringer in lieu of standard floor mouting)

Optional non-powder coated screens, stacking kits, and winter cover kits



24 cubic inch filter drier with sight glass mounted in the rear for easy serviceability



10" weather-proof condenser fans provide maximum air flow

School & Commercial Bus Climate Control Design | Manufacture | Install | Service



1 = TA77 INDEPENDENT OF OEM DASH A/C W/LARGER COMPRESSOR **RECOMMENDED BY A/C MFR

¹ TA773 SUPER 13

FORD 7.3 LITRE PREMIUM GAS ENGINE

05 10479

)479

Comprised of 13 CID additional compressor, TA && evaporator and 3 fan skirt condenser

Ford OEM dash heat and AC nominally rated at additional 18K BTU's supplied by Ford fed coolant and a an OEM compressor. See pic below and attached spec sheets for TransAir TA733 system





TARABUS SIRIUS

	Manual Valley			
DESCRIPTION				
Backing			NT	
Thickness	ISO 24 346	mm	2.25 ± 0.15	
Weight	ISO 23 997	kg/m²	2.20 ± 0.15	
Roll width		cm	200 (-0 +1)	
Roll length		lm	24	
PERFORMANCE				
Dimensional stability	ISO 23 999 ASTM D 1204	%	≤ 0.2	
Abrasion resistance	TABER ISO 9352	mg	300 ± 50	
Slip resistance	DIN 51130		R10	
Identation test	ISO 24 343-1	mm	≤ 0.2	
Low temperature resistance	D 42 1235 A	°C	- 20	
Phonic insulation	ISO 717/2	dB	ΔI = 5	
Colour fastness	ISO 105 B02 ISO 4582/80 ASTM D 4459		≥ 7	
Fire resistance	ISO 3795/76	mm/mn	0	
	FMVSS 302		Conform	
	ASTM E648	W/cm²	(CRF) > 0.50	
	95/28/CE		Conform	
	R118		Conform	
Resistance to chemicals	ISO 26 987	-	Unaffected by diluted acids and bases Unaffected by domestic products (excluding solvents for plasticized PVC)	





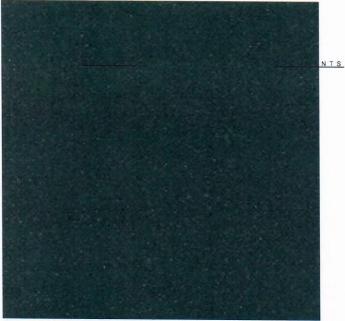


Description

High performance floor covering designed for high traffic.

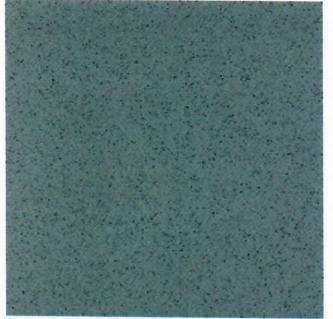
- · Glass fiber web : dimensional stability
- · Textile backing : gluing capabilities
- · Emboss: antisliding
- Compact Wear layer : durability, easy maintenance
- Silicon carbide particles: maximum durability and antisliding, aesthetic
- Weight reduction (https://www.tarabusbygerflor.com/media/25-tarabus/documents/tarabus-light-annonce.pdf) for Sirius NT : Fuel Savings / Lower CO² emissions

Select a colour



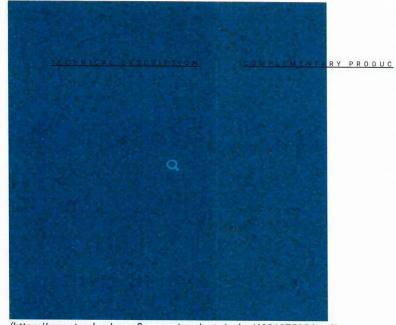
(https://www.tarabusby.gerflor.com/products/color/400127503.html? color_product_id=400148452)

6727 Anthracite NT/MK



(https://www.tarabusby.gerflor.com/products/color/400127551.html? color_product_id=400148453)

6782 Dune NT/MK



(https://www.tarabusbygerflor.com/products/color/400127535.html? color_product_id=400148449)

6451 Corsaire NT



(https://www.tarabusbygerflor.com/products/color/400127648.html? color_product_id=400148451)

6801 Graphite NT



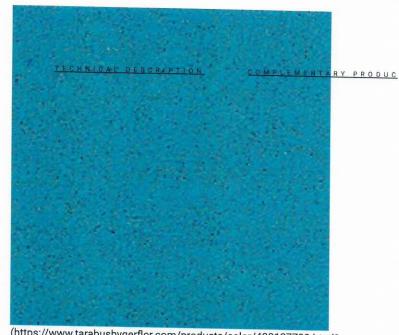
(https://www.tarabusby.gerflor.com/products/color/400127656.html? color_product_id=400148454)

6768 Griffon NT/MK



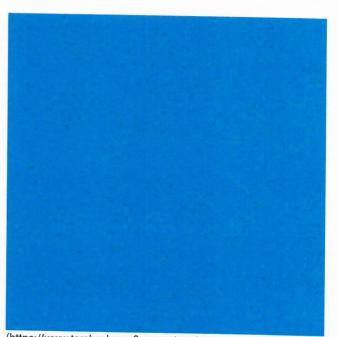
(https://www.tarabusbygerflor.com/products/color/400127887.html?color_product_id=400148448)

6132 Rubis NT



(https://www.tarabusby.gerflor.com/products/color/400127709.html?color_product_id=400148450)

6434 Light Blue NT



(https://www.tarabusbygerflor.com/products/color/400127953.html?color_product_id=400148447)

4461 Seram NT

Documents



DOCUMENTS

TECHNICAL DESCRIPTION

COMPLEMENTARY PRODUC

Gerflor

(https://it2v7.interactiv-doc.fr/html/gerflor-tarabus-card_pdf_348)



Tarabus - cleaning guide

3.76 Mo

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Gerflor

(https://www.tarabusbygerflor.com/media/25-tarabus/documents/tarabus-cleaning-guide.pdf)

Technical datasheet

Tarabus Sirius - Technical datasheet

184 Ko

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 $\underline{(https://www.tarabusbygerflor.com/media/25-tarabus/ft/gerflor-tech-datasheet-tarabus-sirius.pdf)}$

Product construction

- 1 Wear layer: Durability, easy maintenance
- · 2 Emboss: Antisliding
- 3 Anti slip particles: Maximum durability, antisliding
- · 4 Glass fiber web: Dimensional stability
- 5 Backing layer
- · 6 Textile backing: Gluing capabilities

Complementary products

In addition to the product Sirius, we also recommend you to take a look at the complementary products



Welding rods



Venus



TARABUS Logo



Stepbus

 $\underline{(https://www.tarabusbygerflor.com/products/products-list/tarabus-logo.html)}$

 $\underline{(https://www.tarabusbygerflor.com/products/products-list/stepbus.html)}$



Safebus

(https://www.tarabusbygerflor.com/products/products-list/safebus.html)

Gerflor.

oup (https://www.tarabusbygerflor.com/)

Gerflor Group designs & manufactures innovative, decorative and sustainable flooring solutions for all types of applications. As the leader in floorcoverings for bus & coach, Gerflor has been providing the ground transportation industry with high quality flooring solutions and service for over 60 years. Our Tarabus floorings are specially engineered for passenger vehicles, they offer outstanding durability and slip resistance properties.

ABOUT TARABUS(/ABOUT/ABOUT-TARABUS.HTML)

CONTACT US(/CONTACT.HTML)

(https://fr.linkedin.com/showcase/gerflorfransport-flooring)

al notice

is://www.tarabusbygerflor.com/legal-

<u>:e.html)</u>

Cookies

(https://www.tarabusbygerflor.com/cookies.html)

Privacy policy

(https://www.tarabusbygerflor.com/data-

protection-page.html)

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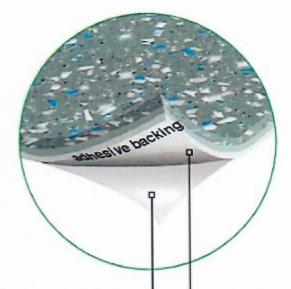
Gerfle

All riç

TARABUS Self-Adhesive

- · Ready to bond No curing time
- · Safer work conditions · Easy to use
- Prêt à coller Pas de temps de gommage
- · Conditions de travail plus saines · Facile à utiliser
- Fertig zum Verkleben Keine Trocknungszeit
- Sicherere Arbeitsbedingunge Einfach anzuwenden
- · Listo para pegar · Sin tiempo de curado
- · Más seguridad en el trabajo · Fácil de utilizar





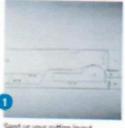
Protective layer Film protecteur Schutzfolle Papel de protección

Acrylic Adhesive layer Film adhésif acrylique Acryl Klebefolie Adhesivo acrilico





- Ready to fit Minimised wastage
- · Precise dimensions · Easy to use
- Prêt à installer Déchets minima
- Découpes précises Facile à utiliser
- Fertig zum Verlegen Geringfügiger Verschleiß
- Genaue Abmessungen Einfach anzuwenden
- Listo para instalar Minimización del desperdicio
- Dimensiones exactas Fácil de utilizar



Send us your cutting layout Envoyez-nous vos plans de découpe Schicken Sie uns ître Zuschnittsmuster zu Envienos su plano de corte



We cut with high precision Nous découpons avec précision Wir schneiden präzise zu Cortamos con precisión



We weld carefully Nous soudons avec soin Wir schweissen sehr sordfattig Soldamos con mucho

Back WELDING

for Tarabus NT

Aesthetics

The welded seam is no longer visible

Easy to clean

No trap for dirt

Durability

The welded seam is no longer exposed to foot traffic

Estética

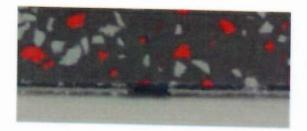
El cordón de soldadura ya no es visible

Facilidad de limpieza

No quedan puntos de acumulación de suciedad

Durabilidad

La soldadura ya no queda expuesta al tránsito



Le cardan de soudure n'est plus visible

Facilité d'entretien

Pas de points d'encrassement

Durabilité

Esthétique

La soudure n'est plus soumise au trafic

Asthetik

Die Schweißnaht ist nicht mehr sichtbar

Erleichtert die Wartung

Keine Verschmutzung im Bereich der Schweißnaht

Langlebigkeit

Die Schweißnaht wird nicht mehr direkt durch Abnutzung beeinflusst









Sustainable Seating Solutions

Freedman Seating Company's Feather Weight seats are designed to be like feathers on a bird: light and airy to satisfy weight restrictions and ensure a smooth ride, yet durable for years of service and low maintenance.

Freedman Seating Feather Weight seats are the most severely tested in the company's history, and meet all applicable federal motor vehicle safety standards for strength andsafety (including 210 for seat belts). Less weight means one thing to bus builders and operators: they can get more passengers per bus.

And when we say more passengers,

we mean more happy passengers.

Not Just Seats



THE FEATHER WEIGHT SERIES BY

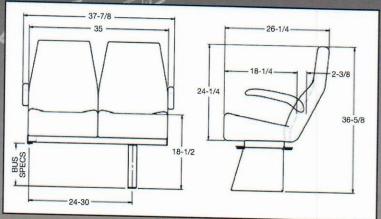
FREEDMAN

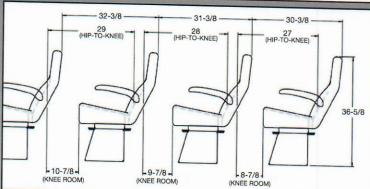
an ISO 9001:2000 certified company

-Seating Solutions

FEATHER WEIGHT









FREEDMAN
SEATING COMPANY
an ISO 9001:2000 certified company

4545 W. Augusta Blvd., Chicago, IL 60651 (773)524-2440 (800)443-4540 Fax (773)252-7450 e-mail: sales@freedmanseat.com WWW.FREEDMANSEATING.COM

Sustainable Seating Solutions

Whether your bus is for tour/charter, para-transit, or shuttle, Feather Weight Mid-Hi works for you. Optional adjustable headrests and reclining back-rests give you luxuries for long journeys, while grab rails and ABS plastic backs provide the function and safety required for shorter trips. The ultra-thin backrest gives outstanding support and creates more hip-to-knee room than any other seat in its class. The steel frame system meets or exceeds all applicable government standards for safety and durability. And, it's light as a feather!

Feather Weight Mid-Hi features include:

- An ultra-thin Knee-Saver type backrest for added hip-to-knee room and lumbar support
- Molded polyurethane seat and back cushions for comfort and long lasting support
- 17½" wide seat cushions
- 22½" back height off the seat cushion, 37" off the floor
- · Wire mesh-grid seat springs for even support
- FMVSS 210 compliance–all Feather Weight seats are seat belt ready
- Transit style-rigid backrests (starting weight without options-43 lbs.)
- Touring style-reclining backrests (starting weight without options-47 lbs.)
- Covers that can be removed and replaced easily and without the use of special tools

Feather Weight Mid-Hi options include:

- Black molded U.S. Arms or upholstered flip-up armrests
- Adjustable headrests
- Black or yellow corner AV grab rails
- · Black or yellow top AV grab rails
- · ABS plastic backs
- Mesh map pockets
- Vertical stitching
- FTA foam
- Snack trays
- Aluminum folding footrests
- · Pillow seat cushions
- · Rear row quick disconnect
- Side sliders
- 16", 18" or 19" wide seats available
- Rigid or reclining backrests
- Seat belts
 - Non-retracting seat belts
 - Retracting seat belts
 - USR (Under Seat Retractors)
- S3 Bio-Cushions (Made with vegetable oil)
- · A wide variety of cloths and vinyls
- S3 cloths (Made with recycled yarn)

We are constantly updating and improving our seats; therefore we reserve the right to change or modify specifications or materials without notice. All Freedman Seating Company seats meet or exceed FMVS standards.

ISO 9001:2000 registered

FEATHER

WEIGHT

FOLDAWAY BV & AM STYLES

Freedman Seating gives you the largest selection of Foldaways in the industry. Whether you need space for luggage or wheel chairs, we have the right seat. Easy to install and easier to operate, our Foldaways will provide you with miles and miles of happy riders and drivers. Maybe we should say, "smiles and smiles". Freedman Seating, "Not just seats—seating solutions."

Not Just Seats



THE FEATHER WEIGHT SERIES BY

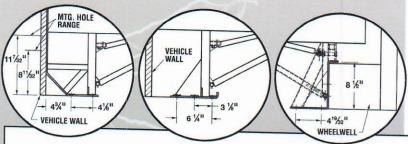
FREEDMAN

an ISO 9001:2000 certified company

Notch-Back, standard Bench-Back and High-Back are shown. Seating Solutions

FEATHER

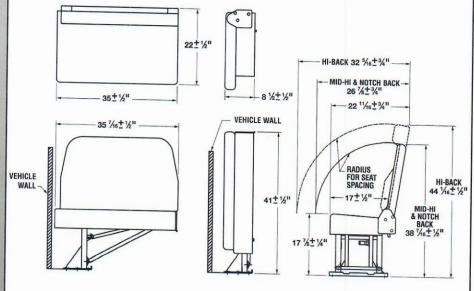
Foldaway BV & AM STYLES



AM2 Floor/Wall Mount

BV Floor Mount

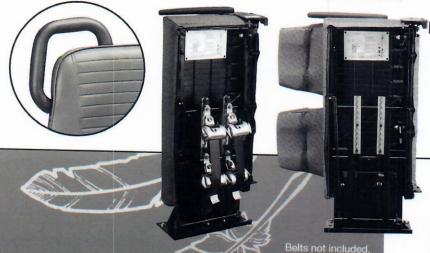
BVWW3 Floor Mount



Corner Grabs

TDSS with belts

TDSS without belts



Standard Features:

- BV Foldaways mount to the vehicle with four bolts to the floor (no wall mount)
- AM Foldaways mount to the vehicle with four bolts to the floor and two to the wall mount
- Seat belt ready (FMVSS 210 compliant with no leg or tether)
- Ultra-thin backrest for added hip-to-knee room and lumbar support
- High quality molded polyurethane seat and back cushions
 - Folds up to less than 10" thick when in the stowed position
 - Cantilever design provides reduced installation time; no floor cutting for aisle leg and easy vehicle clean up
 - Wire mesh grid seat springs for even support
 - 2 locking mechanisms to hold seat in stowed position

Options:

- Single or double seats
- Bench back, notch back or high back
- Wheel well seats
- · Wide variety of vinyl's or cloths
- Molded U.S. arms or upholstered arms
- Black or yellow top grabs (not on high backs)
- Black or yellow corner grabs (black side only on high back)
- Vertical stitching
- FTA foam
- ABS backs (Notchback only)
- Adjustable headrests (Single and Notchback only)
- Shrouds to cover the Foldaway when stowed
- USR seat belts (Under Seat Retractors)
- CRS-225 hooks and tethers
- TDSS (Tie Down Storage System)

Not Just Seats

THE FEATHER WEIGHT SERIES BY

FREEDMAN SEATING COMPANY

an ISO 9001:2000 certified company

4545 W. Augusta Blvd., Chicago, IL 60651 (773)524-2440 (800)443-4540 Fax: (773)252-7450 WWW.FREEDMANSEATING.COM e-mail: sales@freedmanseat.com

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Seating Solutions

FREEDMAN SEAT

SEATING 1GS

(Integrated Child Seat)



WHAT COULD BE MORE IMPORTANT?

> Also available the ICS-10, for children up to 10 years old.

Not Just Seats-



THE FEATHER WEIGHT SERIES BY

FREEDMAN

Seating Solutions

REDI 35 17% **ADJUSTMENT** 15½-18 ICS 15¼-18¼ ICS-10 (3) BOOSTER 18 BUS **BUS SPECS** 29 18 % 26 3/4 42 3/4

SEATING IGS

(Integrated Child Seat)

Kids and safety, what could be more important? Nothing!

That's the underlying principle behind the Freedman ICS (Integrated Child Seat) and ICS-10.

The ICS is designed for children from 22–51 lbs. and the ICS-10 can accommodate children up to 10 years old, 22–78 lbs. Both ICS seats are comfortable for adults and safe for children. A tapered back provides unrestricted viewing for drivers, and best of all, the shoulder belts can be adjusted in seconds without taking the seat apart or clumsy operations.

Standard Features:

- Accommodates children 22–51 lbs. (22–78 lbs for the ICS-10)
- Matching companion seat available
- Fold down tongue can be folded to act as a booster seat
- Easily adjustable shoulder straps
- Standard with FMVSS 213 and 210 seat belt anchorage compliance
- Retrofitable; Fits on most Feather Weight frames!

Options:

- Available in a wide variety of vinyls and cloths
- Upholstered or US Arms
- Adjustable footrests
- Freedman USR (Under Seat Retractor)
- Available as a single or double
- Grab rails

THE FEATHER WEIGHT SERIES BY

SEATING COMPANY

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(773)524-2440 (800)443-4540 Fax (773)252-7450
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AV GRAB RAIL

Black Part # 55836380



SHIELD DRIVER RECLINER SEAT

Shield driver seats are designed and tested to meet all applicable safety standards including 202A for superior head and neck support while providing superior comfort and style. The Shield recliner is the preferred driver seat for 2011 and later Ford & Chevy cutaway buses. The Shield recliner mounts directly to the OEM base & slides on seat delete chassis.



4 QRT-360 Retractors with L-Track Fittings and HR131 Retractable Lap & Shoulder

Condition: New

Quantity:

1

More than 10 available



Mobility Aids



Q'STRAINT

General Accessories

Q5-7590

General Accessories

Q5-7580

Rosco offers high serviceability and up to 100 square inches of mirror surface for both transit and school bus applications.



REMOTE-READY REAR VIEW MIRROR SYSTEM

Equally effective on Transit or school bus applications, The American Eagle® offers high performance and serviceability wherever a dual lens, single housing, remoteready mirror is desired.

A Better Single-Housing Mirror

• Up to 100 sq. Inches Mirror Surface

- Larger Convex View
- Highly Serviceable
- Two Sizes to Choose From
- Convenient Options

Two Size Choices both 15 and 17-inch versions.

Part #	Description	
130-10	8x15" Top Mount Black, Non-Heated	
130-20	8x15" Top Mount Black, Heated	
130-30	8x15" Top Mount Black, Non-Heated, Remote	
130-40	8x15" Top Mount Black, Heated, Remote	
131-10	8x15" Bottom Mount Black, Non-Heated	
131-20	8x15" Bottom Mount Black, Heated	
131-30	8x15" Bottom Mount Black, Non-Heated, Remote	
131-40	8x15" Bottom Mount Black, Heated, Remote	
132-10	8x17" Bottom Mount Black, Non-Heated	
132-20	8x17" Bottom Mount Black, Heated	
132-30	8x17" Bottom Mount Black, Non-Heated, Remote	
132-40	8x17" Bottom Mount Black, Heated, Remote	
133-10	8x17" Top Mount Black, Non-Heated	
133-20	8x17" Top Mount Black, Heated	
133-30	8x17" Top Mount Black, Non-Heated, Remote	
33-40	8x17" Top Mount Black, Heated, Remote	

PA compatible with JensenD1130 radio that was previously documented

Jensen JHD1130 AM/FM/RBDS/WB Radio With Clock & 4 Speakers

JPA600 PA System w/ Hand Held Mic & Clip Integrated with JHD1130 Radio

Fare box provision includes Forest river installed:

 Additional stanchion connecting to driver's modesty behind right hand shoulder of driver and a power and ground wire to allow for fare boxes with illumination lighting to be easily wired by agency

Radio install prep includes forest River installed:

Ground Plane on roof for antennae mounting, pull cord and channel for routing cabling, ground wire,
 Constant power and igmition power all coiled behind drive left should at ground level for agency install

Strobe light

See literature next page

Dual Purpose safety vent by Safe Fleet

The Safe Fleet – Transpec family of ventilators and escape hatches – designed to meet the wide-ranging needs of today's transit fleet.



Dual Purpose Safety Vent

The Dual Purpose Safety Vent is a combination roof ventilator/emergency exit that provides 5-position, fresh air ventilation and a simple release handle for emergency exit.

- Multi position fresh air vent
- Emergency exit
- Most popular model





Vulcan™ Series VX5AI MDVR

The five-channel VX5AI is ideal for smaller buses and transport vans and records up to five camera views: four HD channels at D1, 720P or 1080P—plus one IP channel at up to 1080P resolution, for a key location where IP clarity is needed most. Video is stored on a locking hard drive, with a microSD card slot for redundancy.

- 5-channel system
- 4 channels D1, 720P, or up to 1080P + 1 channel IP up to 1080P
- 1TB (standard) 2.5" SATA or solid-state drive, up to 2TB
- microSD card slot for redundant recording
- Five (5) year limited warranty

Storage Compartment – Will either be in front header in conjunction with access to front destination sign or in area above passenger door header. Subject to pre-production review of bus order

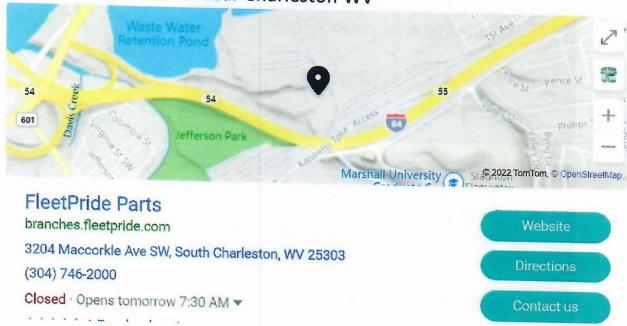
Training – Fully understand that award of this contract obligates bidder to fully participate in annual training events for both transit agencies and 53-10 agencies. Generally these are held at two or three locations around the state

Overhead luggage rack – See picture below

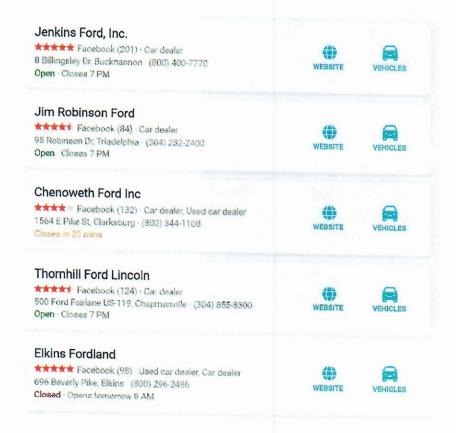


Warranty providers in West Virginia and nearby locations

1. Fleet Pride PDI center near Charleston WV



2. Truck Certified Ford Dealers





- (304)727-9478
- Miew Dealer Details

Matheny Motor Truck Company 50 MATHENY LANE, MINERAL WELLS, WV 26150

- (304)485-4418
- Mew Dealer Details
- Marietta Mobility 90.0 mi 221 PIKE STREET, MARIETTA, OH 45750
- (800)690-4950
- A View Dealer Details
- Truck Sales & Service, Inc 93.1 mi 275 COMMERCE DR, MARIETTA, OH 45750
- (740)373-1081
- ➡ View Dealer Details

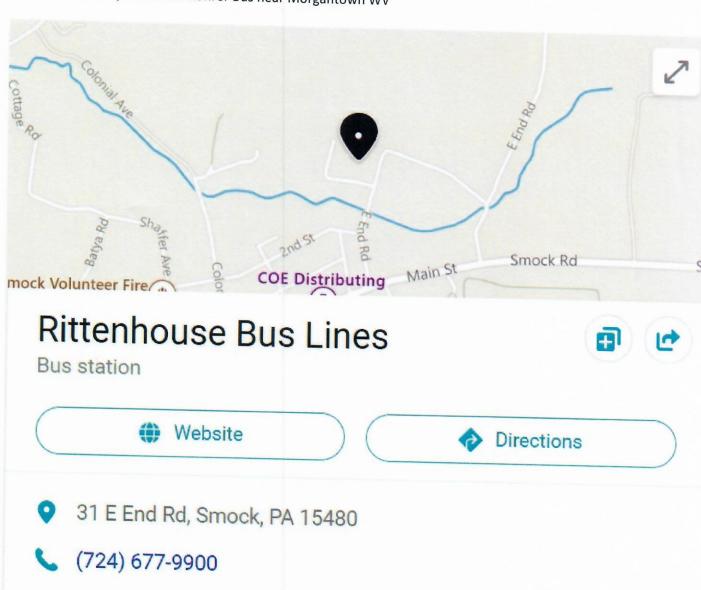


Worldwide Equipment

Ph: 304-736-3401 5650 US Rt 60E Huntington, WV 25705

All around warranty center for Rohrer Bus near Morgantown WV

Closed · Opens tomorrow 6 AM ▼



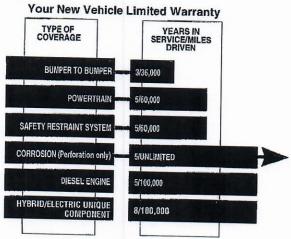
QUICK REFERENCE: WARRANTY COVERAGE

This chart gives a general summary of your warranty coverage provided by Ford Motor Company under the **New Vehicle Limited Warranty**. Please refer to the description of warranty coverage for more specific information.

For each type of coverage, the chart shows two measures:

· years in service

miles driven



The measure that occurs first determines how long your coverage lasts. For example: Your Bumper to Bumper Coverage lasts for three years - unless you drive more than 36,000 miles before three years elapse. In that case, your coverage ends at 36,000 miles.

For more details on coverage, see:

- ➡ What is Covered? (pages 9-13)
- ➡ What is Not Covered? (pages 13-16)



Warranty Overview

Please refer to specific warranties for details & exclusions

	specific warranties for ELDORADO		
Base Warranty	3 Year/36,000 Miles		
Body Structure	5 Year/100,000 Miles		
Electrical System	3 Year/36,000 Miles		
Paint	≤36 months and ≤36,000 miles = 100% materials and 100% labor ≤48 months and ≤70,000 miles = 50% material and 50% labor ≤60 months and ≤100,000 miles = 25% material and 25% labor		
	CHASSIS	The second of th	
Ford Motor Co.	3 Year/36,000 Miles 5 Year/60,000 Miles 5 Year/Unlimited Miles 5 Year/100,000 Miles	E & F Series Chassis Drivetrain Corrosion Diesel Engine	
General Motors	3 Year/36,000 Miles 5 Year/60,000 Miles 5 Year/100,000 Miles 3 Year/36,000 Miles 6 Year/100,000 Miles 1 Year/Unlimited Mileage 5 Year/100,000 Miles 6 Year/Unlimited Miles 2 Year/Unlimited Miles	G3500 & G4500 Chassis Drivetrain for End Users w/o FAN Drivetrain for FAN End Users Corrosion Rust-Through (from delivery date) TC TC Chassis Cab Coverage TC Corrosion TC ISB Engine	
International			
Al	R CONDITIONING AND	HFAT	
ProAir A/C (formerly A.C.T.)*	3 Year/Unlimited Mileage	T. L.	
ACC Climate Control	3 Year/75,000 Mile (with min 2 Year/Unlimited mileage for original owner)		
Mobile Climate Control (MCC)	2 Year Unlimited Mileage (from Original In-Service Date)		
Thermo King A/C	2 Year/Unlimited Mileage, Parts, Labor 1 Year on Compressors		
Trans Air	2 Year/Unlimited Mileage (from Original In-Service Date)		
ProAir Heaters*	2 Years/Unlimited Mileage		
	ALTERNATOR		
Alternator	See Chassis Warranty		
	AUDIO VISUAL		
ASA Radio Components	2 Year/Unlimited Mileage		
Echovision	1 Year (from original purchase date)		

UNDERCOATING & CORROSION RESISTANCE PROCEDURE

The corrosion resistance process used by ElDorado begins with an application of Zinc Phosphate to a nominal 1.5–2.0 mil thickness. Zinc Phosphate is sprayed on the door post, step well, and the flange forward of the step well at the floor. The entire sub-frame is thoroughly sprayed protecting vent hoses and the fuel fill from overspray.

The undercoating process begins with a complete, hand-rolled and brushed application to a dry film thickness of 8-10 mils of a nonflammable water-based 76M Waterborn over 100% of the floor decking material, including edge sealing, prior to installation. This ensures the most critical areas, where it interfaces with the steel floor structure, are completely sealed and impervious to moisture penetration. The process also coats side panels below floor level (if metal), and fender wells.

Any component within 12" of the exhaust, or any part of the exhaust or related heat shields, fuel tank, fuel filler and vent tube, drive shaft or shock absorbers shall be excluded from undercoating. All added underbody steel on floor structure, frame stretch, drive line loops, etc will be sprayed with Zinc Phosphate.

After the body is installed, a second undercoating application is done to the entire floor structure to provide additional corrosion protection for all exposed steel. Note: care is taken to avoid the exhaust system and all other heat sources to avoid any potential fire hazard.

This two stage undercoating process is exclusive to ElDorado and when combined with the application of zinc phosphate provides superior undercarriage corrosion protection.



9/12/2013

MB #LB005 V1

Z GUARD 9902 STAR Film Properties

Performance testing reflects coating on unpolished Q panels with four day air-dried films at 3.0-4.0 mils dry.

Dry to touch at R.T., ASTM D1640 Dry-to-Handle at R.T., ASTM D1640 Pencil Hardness

Flexibility 180° bend over conical mandral Salt Spray, ASTM B117, 1000 hours

Salt Fog Resistance (463PB-10-01), 240 hours.

♦ 500 F x 16 hours plus 240 hrs salf fog

325 F x 16 hours plus 16 hours humidity.
 Salt Fog Resistance (WSS-M2P178-A), 240 hours.

 662°F x 1 hour; 1°C water quench; plus 240 hrs salt fog.

Salt Water Immersion, 5% NaCl, 100° F, 96 Hours Detergent Immersion, 100° F, 48 Hours Gravelometer, ASTM D3170, -20° F Poultice, GM 998-5470, 20 cycles Q.U.V., ASTM G53, 3000 Hours

Q.U.V., 100 Hours + Salt Spray, 336 Hours Q.C.T., 3000 Hours

TT ::: 5

Humidity Resistance, ASTM D2247, 2000 Hours

Sag resistance

Impact (direct & reverse) ASTM D3281 Adhesion (FLTM B1 6-1 B) cross Hatch Scab corrosion resistance, 20 cycles

APPLICATION

10 ± 2 minutes 20 ± 5 minutes

6B Pass

Field, scribe, edge clean; slight

blistering Pass (No rust) Pass (No rust)

Pass (No rust, nor blisters)

Pass (#8-9 corrosion rating or <0.1% surface rust per ASTM D 610-95)

Pass
Pass
Good(8A)
Pass
Pass
Pass
Pass

Pass Pass ≥5 mils

160/40 inch-1bs.

5A Pass Pass

For ultimate protection, apply films to clean metals at a thickness of at least four (4) mils dry, by any of the following methods:

Airless spray, with a 33:1 1.5 - 3.5 GPM, .013 - .026 tip at 50-75 psi line pressure, 20 - 40 fan

www.ztechprotection.com

Z TECHNOLOGIES CORPORATION

26500 Lapitol Avenue, Nedford, Michigan 48239-2597 Telephone (313) 937-0710 · Fax (313) 937-1470