



Interstate Transportation Equipment, Inc.

P.O. Box 9163 • 2511 Trotter Road • Columbia, SC 29290

Telephone (803) 776-5041 • Toll Free (800) 726-0779 • Fax (803) 776-3527

June 5, 2012

Cheryl Patrick  
State of South Carolina  
Materials Management Office  
1201 Main St., Suite 600  
Columbia, SC 29201

Re: Solicitation # 5400004167

Ms. Patrick,

Thank you for the opportunity to participate in the above solicitation for Type C School Buses. Enclosed is our bid for the Thomas Saf-T-Liner C2 school buses as specified.

We have received, reviewed and understand the requirements of the solicitation and all amendments issued. We hereby confirm that our bid complies with all requirements of the solicitation and all amendments.

Yours truly,

A handwritten signature in cursive script, appearing to read "Robert D. Coleman".

Robert D. Coleman  
President

<b>1</b>	IFB & Amendments
<b>2</b>	Service/Repair
<b>3</b>	Questionnaire
<b>4</b>	Bidding Schedule
<b>5</b>	Seat Plans
<b>6</b>	Documentation
<b>7</b>	Literature
<b>8</b>	

TAB 1



# State of South Carolina

## Invitation for Bid

Solicitation Number: **5400004167**  
 Date Issued: **04/16/2012**  
 Procurement Officer: **CHERYL PATRICK, CPPB**  
 Phone: **803-737-5717**  
 E-Mail Address: **CPatrick@mmo.sc.gov**

DESCRIPTION: **Type C Conventional School Buses - Statewide**

USING GOVERNMENTAL UNIT: **Statewide Term Contract**

*The Term "Offer" Means Your "Bid" or "Proposal". Unless submitted on-line, your offer must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior. See "Submitting Your Offer" provision.*

SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

**MAILING ADDRESS:**

Materials Management Office  
PO Box 101103  
Columbia SC 29211

**PHYSICAL ADDRESS:**

Materials Management Office  
Capitol Center  
1201 Main Street, Suite 600  
Columbia SC 29201

**RECEIVED**  
JUN 5 X 2012  
Materials Management Office  
11:00 A.M.

SUBMIT OFFER BY (Opening Date/Time): **05/22/2012 -- 11:00 AM** (See "Deadline For Submission Of Offer" provision)

QUESTIONS MUST BE RECEIVED BY: **05/04/2012 -- 2:00 PM** (See "Questions From Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **FOUR (4) - 1 Original & 3 Copies; clearly marked "COPY"**

CONFERENCE TYPE: **Pre Bid Conference**  
DATE & TIME: **05/01/2012 -- 10:30 AM**

(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)

LOCATION: **Capitol Center Building**  
**MMO Conference Room, Suite 600**  
**1201 Main Street**  
**Columbia, SC 29201**

**AWARD & AMENDMENTS**

Award will be posted on **06/15/2012**. The award, this solicitation, any amendments, and any related notices will be posted at the following web address: <http://www.procurement.sc.gov>

Unless submitted on-line, you must submit a signed copy of this form with Your Offer. By submitting a bid or proposal, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of thirty (30) calendar days after the Opening Date. (See "Signing Your Offer" and "Electronic Signature" provisions.)

**NAME OF OFFEROR**

**INTERSTATE TRANSPORTATION EQUIPMENT, INC**

(full legal name of business submitting the offer)

Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.

**AUTHORIZED SIGNATURE**

*Robert D. Coleman*

(Person must be authorized to submit binding offer to contract on behalf of Offeror.)

**TAXPAYER IDENTIFICATION NO.**

**57-0291119**

(See "Taxpayer Identification Number" provision)

**TITLE**

**PRESIDENT**

(business title of person signing above)

**STATE VENDOR NO.**

**700047087**

(Register to Obtain S.C. Vendor No. at [www.procurement.sc.gov](http://www.procurement.sc.gov))

**PRINTED NAME**

**ROBERT D. COLEMAN**

(printed name of person signing above)

**DATE SIGNED**

**6/5/12**

**STATE OF INCORPORATION**

**SC**

(If you are a corporation, identify the state of incorporation.)

OFFEROR'S TYPE OF ENTITY: (Check one)

(See "Signing Your Offer" provision.)

Sole Proprietorship

Partnership

Other \_\_\_\_\_

Corporate entity (not tax-exempt)

Corporation (tax-exempt)

Government entity (federal, state, or local)

**PAGE TWO**

(Return Page Two with Your Offer)

<p><b>HOME OFFICE ADDRESS</b> (Address for offeror's home office / principal place of business)</p> <p align="center">2511 TROTTER RD. HOPKINS, SC 29061</p>	<p><b>NOTICE ADDRESS</b> (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)</p> <p align="center">P.O. BOX 9163 COLUMBIA, SC 29290</p> <p>(803) 776-5041      776-3527      Area Code - Number - Extension      Facsimile</p> <p>ROBERT @ INTERSTATE TRANSPORTATION .COM mail Address</p>
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<p><b>PAYMENT ADDRESS</b> (Address to which payments will be sent.) (See "Payment" clause)</p> <p><input type="checkbox"/> Payment Address same as Home Office Address <input checked="" type="checkbox"/> Payment Address same as Notice Address (check only one)</p>	<p><b>ORDER ADDRESS</b> (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)</p> <p><input type="checkbox"/> Order Address same as Home Office Address <input checked="" type="checkbox"/> Order Address same as Notice Address (check only one)</p>
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**ACKNOWLEDGMENT OF AMENDMENTS**  
Offerors acknowledge receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)

Amendment No.	Amendment Issue Date						
1	4/23/12	2	5/1/12	3	5/17/12	4	5/18/12

<b>DISCOUNT FOR PROMPT PAYMENT</b> (See "Discount for Prompt Payment" clause)	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	____ Calendar Days (%)
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**PREFERENCES - DO NOT APPLY TO THIS SOLICITATION**

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End of PAGE TWO



# State of South Carolina

## Invitation for Bid AMENDMENT 1

Solicitation Number: **5400004167**  
 Date Issued: **04/23/2012**  
 Procurement Officer: **CHERYL PATRICK, CPPB**  
 Phone: **803-737-5717**  
 E-Mail Address: **CPatrick@mmo.sc.gov**

DESCRIPTION: **Type C Conventional School Buses - Statewide**

USING GOVERNMENTAL UNIT: **Statewide Term Contract**

*The Term "Offer" Means Your "Bid" or "Proposal". Unless submitted on-line, your offer must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior. See "Submitting Your Offer" provision.*

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Columbia SC 29211

**PHYSICAL ADDRESS:**

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Capitol Center  
1201 Main Street, Suite 600 – MMO Conference Rm  
Columbia SC 29201

SUBMIT OFFER BY (Opening Date/Time): **05/22/2012 – 11:00 AM** (See "Deadline For Submission Of Offer" provision)

QUESTIONS MUST BE RECEIVED BY: **05/04/2012 – 2:00 PM** (See "Questions From Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **FOUR (4) – 1 Original & 3 Copies; clearly marked "COPY"**

CONFERENCE TYPE: **Pre Bid Conference**  
DATE & TIME: **05/01/2012 – 10:30 AM**

LOCATION: **Capitol Center Building**  
**MMO Conference Room, Suite 600**  
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**Columbia, SC 29201**

(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)

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**NAME OF OFFEROR**

**INTERSTATE TRANSPORTATION EQUIPMENT, INC.**

(full legal name of business submitting the offer)

Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.

**AUTHORIZED SIGNATURE**

*Robert D. Coleman*

(Person must be authorized to submit binding offer to contract on behalf of Offeror.)

**TAXPAYER IDENTIFICATION NO.**

**57-0291119**

(See "Taxpayer Identification Number" provision)

**TITLE**

**PRESIDENT**

(business title of person signing above)

**STATE VENDOR NO.**

**7000047087**

(Register to Obtain S.C. Vendor No. at [www.procurement.sc.gov](http://www.procurement.sc.gov))

**PRINTED NAME**

**ROBERT D. COLEMAN**

(printed name of person signing above)

**DATE SIGNED**

**6/5/12**

**STATE OF INCORPORATION**

**SC**

(If you are a corporation, identify the state of incorporation.)

OFFEROR'S TYPE OF ENTITY: (Check one)

(See "Signing Your Offer" provision.)

Sole Proprietorship

Partnership

Other \_\_\_\_\_

Corporate entity (not tax-exempt)

Corporation (tax-exempt)

Government entity (federal, state, or local)

**PAGE TWO**

(Return Page Two with Your Offer)

<p><b>HOME OFFICE ADDRESS</b> (Address for offeror's home office / principal place of business)</p> <p align="center"><b>2511 TROTTER RD. HOPKENS, SC 29061</b></p>	<p><b>NOTICE ADDRESS</b> (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)</p> <p align="center"><b>P.O. BOX 9163 COLUMBIA, SC 29290</b></p> <p><b>(803) 776-5041</b>      <b>776-3527</b>      Area Code - Number - Extension      Facsimile</p> <p><b>ROBERT@INTERSTATETRANSPORTATION.COM</b> mail Address</p>
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<p><b>PAYMENT ADDRESS</b> (Address to which payments will be sent.) (See "Payment" clause)</p> <p><input type="checkbox"/> Payment Address same as Home Office Address <input checked="" type="checkbox"/> Payment Address same as Notice Address (check only one)</p>	<p><b>ORDER ADDRESS</b> (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)</p> <p><input type="checkbox"/> Order Address same as Home Office Address <input checked="" type="checkbox"/> Order Address same as Notice Address (check only one)</p>
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**ACKNOWLEDGMENT OF AMENDMENTS**  
Offerors acknowledges receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)

Amendment No.	Amendment Issue Date						
1	4/23/12	2	5/1/12	3	5/17/12	4	5/18/12

<b>DISCOUNT FOR PROMPT PAYMENT</b> (See "Discount for Prompt Payment" clause)	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	___ Calendar Days (%)
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**PREFERENCES - DO NOT APPLY TO THIS SOLICITATION**

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End of PAGE TWO



# State of South Carolina

## Invitation for Bid AMENDMENT 2

Solicitation Number: **5400004167**  
 Date Issued: 05/01/2012  
 Procurement Officer: CHERYL PATRICK, CPPB  
 Phone: 803-737-5717  
 E-Mail Address: CPatrick@mmo.sc.gov

DESCRIPTION: **Type C Conventional School Buses - Statewide**

USING GOVERNMENTAL UNIT: **Statewide Term Contract**

*The Term "Offer" Means Your "Bid" or "Proposal". Unless submitted on-line, your offer must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior. See "Submitting Your Offer" provision.*

### SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

**MAILING ADDRESS:**

Materials Management Office  
 PO Box 101103  
 Columbia SC 29211

**PHYSICAL ADDRESS:**

Materials Management Office  
 Capitol Center  
 1201 Main Street, Suite 600 – MMO Conference Rm  
 Columbia SC 29201

SUBMIT OFFER BY (Opening Date/Time): **05/22/2012 – 11:00 AM** (See "Deadline For Submission Of Offer" provision)

QUESTIONS MUST BE RECEIVED BY: **05/08/2012 – 2:00 PM** (See "Questions From Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **FOUR (4) – 1 Original & 3 Copies; clearly marked "COPY"**

CONFERENCE TYPE: **Pre Bid Conference**  
 DATE & TIME: **05/01/2012 – 10:30 AM**

LOCATION: **Capitol Center Building**  
**MMO Conference Room, Suite 600**  
**1201 Main Street**  
**Columbia, SC 29201**

(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)

**AWARD & AMENDMENTS**

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Unless submitted on-line, you must submit a signed copy of this form with Your Offer. By submitting a bid or proposal, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of thirty (30) calendar days after the Opening Date. (See "Signing Your Offer" and "Electronic Signature" provisions.)

**NAME OF OFFEROR**

**INTERSTATE TRANSPORTATION EQUIPMENT, INC**  
 (full legal name of business submitting the offer)

Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.

**AUTHORIZED SIGNATURE**

*Robert D. Coleman*  
 (Person must be authorized to submit binding offer to contract on behalf of Offeror.)

**TAXPAYER IDENTIFICATION NO.**

**57-0291119**  
 (See "Taxpayer Identification Number" provision)

**TITLE**

**PRESIDENT**  
 (business title of person signing above)

**STATE VENDOR NO.**

**700047087**  
 (Register to Obtain S.C. Vendor No. at [www.procurement.sc.gov](http://www.procurement.sc.gov))

**PRINTED NAME**

**ROBERT D. COLEMAN**  
 (printed name of person signing above)

**DATE SIGNED**

**6/5/12**

**STATE OF INCORPORATION**

**SC**  
 (If you are a corporation, identify the state of incorporation.)

OFFEROR'S TYPE OF ENTITY: (Check one)

(See "Signing Your Offer" provision.)

- Sole Proprietorship       Partnership       Other \_\_\_\_\_  
 Corporate entity (not tax-exempt)       Corporation (tax-exempt)       Government entity (federal, state, or local)

**PAGE TWO**

(Return Page Two with Your Offer)

<p><b>HOME OFFICE ADDRESS</b> (Address for offeror's home office / principal place of business)</p> <p align="center">2511 TROTTER RD. HOPKINS, SC 29061</p>	<p><b>NOTICE ADDRESS</b> (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)</p> <p align="center">P.O. BOX 9163 COLUMBIA, SC 29290</p> <p>(803) 776-5041    776-3527    Area Code - Number - Extension                      Facsimile</p> <p><b>ROBERT@INTERSTATETRANSPORTATION.COM</b> mail Address</p>
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<p><b>PAYMENT ADDRESS</b> (Address to which payments will be sent.) (See "Payment" clause)</p> <p><input type="checkbox"/> Payment Address same as Home Office Address <input checked="" type="checkbox"/> Payment Address same as Notice Address (check only one)</p>	<p><b>ORDER ADDRESS</b> (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)</p> <p><input type="checkbox"/> Order Address same as Home Office Address <input checked="" type="checkbox"/> Order Address same as Notice Address (check only one)</p>
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**ACKNOWLEDGMENT OF AMENDMENTS**  
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Amendment No.	Amendment Issue Date						
1	4/23/12	2	5/1/12	3	5/17/12	4	5/18/12

<p><b>DISCOUNT FOR PROMPT PAYMENT</b> (See "Discount for Prompt Payment" clause)</p>	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	____ Calendar Days (%)
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**PREFERENCES - DO NOT APPLY TO THIS SOLICITATION**

**PREFERENCES - DO NOT APPLY TO THIS SOLICITATION**



# State of South Carolina

## Invitation for Bid Amendment 3

Solicitation Number: **5400004167**  
 Date Issued: 05/17/2012  
 Procurement Officer: CHERYL PATRICK, CPPB  
 Phone: 803-737-5717  
 E-Mail Address: CPatrick@mmo.sc.gov

DESCRIPTION: **Type C Conventional School Buses - Statewide**

USING GOVERNMENTAL UNIT: **Statewide Term Contract**

*The Term "Offer" Means Your "Bid" or "Proposal". Unless submitted on-line, your offer must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior. See "Submitting Your Offer" provision.*

### SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

#### MAILING ADDRESS:

Materials Management Office  
 PO Box 101103  
 Columbia SC 29211

#### PHYSICAL ADDRESS:

Materials Management Office  
 Capitol Center  
 1201 Main Street, Suite 600 – MMO Conference Rm  
 Columbia SC 29201

SUBMIT OFFER BY (Opening Date/Time): **06/05/2012 – 11:00 AM** (See "Deadline For Submission Of Offer" provision)

QUESTIONS MUST BE RECEIVED BY: **05/23/2012 – 4:00pm** - (Questions Limited to Amended Parts Only)  
(See "Questions From Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **FOUR (4) – 1 Original & 3 Copies; clearly marked "COPY"**

CONFERENCE TYPE: **Intentionally Deleted**  
DATE & TIME:

LOCATION: **Intentionally Deleted**

(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)

#### AWARD & AMENDMENTS

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#### NAME OF OFFEROR

**INTERSTATE TRANSPORTATION EQUIPMENT, INC.**  
 (full legal name of business submitting the offer)

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#### AUTHORIZED SIGNATURE

*Robert D. Coleman*  
 (Person must be authorized to submit binding offer to contract on behalf of Offeror.)

#### TAXPAYER IDENTIFICATION NO.

**57-0291119**  
 (See "Taxpayer Identification Number" provision)

#### TITLE

**PRESIDENT**  
 (business title of person signing above)

#### STATE VENDOR NO.

**7000047087**  
 (Register to Obtain S.C. Vendor No. at [www.procurement.sc.gov](http://www.procurement.sc.gov))

#### PRINTED NAME

**ROBERT D. COLEMAN**  
 (printed name of person signing above)

#### DATE SIGNED

**6/5/12**

#### STATE OF INCORPORATION

**SC**  
 (If you are a corporation, identify the state of incorporation.)

#### OFFEROR'S TYPE OF ENTITY: (Check one)

(See "Signing Your Offer" provision.)

- Sole Proprietorship       Partnership       Other \_\_\_\_\_
- Corporate entity (not tax-exempt)       Corporation (tax-exempt)       Government entity (federal, state, or local)

**PAGE TWO**

(Return Page Two with Your Offer)

<p><b>HOME OFFICE ADDRESS</b> (Address for offeror's home office / principal place of business)</p> <p align="center">2511 TROTTER RD. HOLKENS, SC 29061</p>	<p><b>NOTICE ADDRESS</b> (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)</p> <p align="center">P.O. BOX 9163 COLUMBIA, SC 29290</p> <p>(803) 776-5041      776-3527      Area Code - Number - Extension      Facsimile</p> <p><u>ROBERT@INTERSTATETRANSPORTATION.COM</u> mail Address</p>
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End of PAGE TWO



# State of South Carolina

## Invitation for Bid Amendment 4

Solicitation Number: **5400004167**  
 Date Issued: **05/18/2012**  
 Procurement Officer: **CHERYL PATRICK, CPPB**  
 Phone: **803-737-5717**  
 E-Mail Address: **CPatrick@mmo.sc.gov**

DESCRIPTION: **Type C Conventional School Buses - Statewide**

USING GOVERNMENTAL UNIT: **Statewide Term Contract**

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SUBMIT OFFER BY (Opening Date/Time): **06/05/2012 – 11:00 AM** (See "Deadline For Submission Of Offer" provision)

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(See "Questions From Offerors" provision)

NUMBER OF COPIES TO BE SUBMITTED: **FOUR (4) – 1 Original & 3 Copies; clearly marked "COPY"**

CONFERENCE TYPE: **Intentionally Deleted**  
DATE & TIME:

LOCATION: **Intentionally Deleted**

(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)

**AWARD &  
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*Robert D. Coleman*

(Person must be authorized to submit binding offer to contract on behalf of Offeror.)

**TAXPAYER IDENTIFICATION NO.**

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(See "Taxpayer Identification Number" provision)

**TITLE**

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(business title of person signing above)

**STATE VENDOR NO.**

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**PRINTED NAME**

**ROBERT D. COLEMAN**

(printed name of person signing above)

**DATE SIGNED**

**6/5/12**

**STATE OF INCORPORATION**

**SC**

(If you are a corporation, identify the state of incorporation.)

OFFEROR'S TYPE OF ENTITY: (Check one)

(See "Signing Your Offer" provision.)

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Corporation (tax-exempt)

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**PAGE TWO**

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<p><b>HOME OFFICE ADDRESS</b> (Address for offeror's home office / principal place of business)</p> <p align="center" style="font-size: 1.2em;">2511 TROTTER RD. HOPKENS, SC 29061</p>	<p><b>NOTICE ADDRESS</b> (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)</p> <p align="center" style="font-size: 1.2em;">P.O. BOX 9163 COLUMBIA, SC 29290</p> <p>(803) 776-5041    776-3527    Area Code - Number - Extension                      Facsimile</p> <p><b>ROBERT@INTERSTATETRANSPORTATION.com</b> mail Address</p>
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<p><b>PAYMENT ADDRESS</b> (Address to which payments will be sent.) (See "Payment" clause)</p> <p><input type="checkbox"/> Payment Address same as Home Office Address <input checked="" type="checkbox"/> Payment Address same as Notice Address (check only one)</p>	<p><b>ORDER ADDRESS</b> (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)</p> <p><input type="checkbox"/> Order Address same as Home Office Address <input checked="" type="checkbox"/> Order Address same as Notice Address (check only one)</p>
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**ACKNOWLEDGMENT OF AMENDMENTS**  
Offerors acknowledges receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)

Amendment No.	Amendment Issue Date						
1	4-23-2012	2	5-1-2012	3	5-18-2012	4	5/18/12

<p><b>DISCOUNT FOR PROMPT PAYMENT</b> (See "Discount for Prompt Payment" clause)</p>	<p>10 Calendar Days (%)</p>	<p>20 Calendar Days (%)</p>	<p>30 Calendar Days (%)</p>	<p>____ Calendar Days (%)</p>
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**PREFERENCES - DO NOT APPLY TO THIS SOLICITATION**

**PREFERENCES - DO NOT APPLY TO THIS SOLICITATION**

TAB 2

**SERVICE CAPABILITY AND LOCATIONS:**

Vehicles purchased from this contract will be stationed throughout the State. Therefore, it is necessary that service/repair coverage be available throughout the State for prompt and adequate services for the vehicles offered. The State expects the contractor to have numerous service locations throughout the state in areas that will allow the optimum number of users to easily access these locations without excessive travel. These facilities must be ready to perform services for this contract within 90 days of contract award. **Bidders must furnish a list of branch offices and/or authorized servicing facilities that will render services under this contract.** The State reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard.

**\*\*\*\*\* THE FOLLOWING MUST BE RETURNED WITH BID\*\*\*\*\***

Names, addresses and telephone numbers of service/repair facilities which will render services under this contract (use additional sheets if necessary): Names, addresses and telephone numbers of service/repair facilities which will render services under this contract (use additional sheets if necessary):

Company Name: <i>INTERSTATE TRANSPORTATION EQUIPMENT</i>	Contact Person: <i>JAMES MEYER</i>
Address: <i>2511 TROTTER RD.</i>	Phone/ Fax: <i>(803) 776-5041 (803) 776-3527</i>
City, State, Zip: <i>HOPKINS, SC 29061</i>	Email: <i>JAMES@INTERSTATETRANSPORTATION.COM</i>
Company Name: <i>(SEE ATTACHED LIST</i>	Contact Person:
Address: <i>OF ADDITIONAL FACILITIES)</i>	Phone/ Fax:
City, State, Zip:	Email:
Company Name: <i>SC DEPT. OF EDUCATION</i>	Contact Person:
Address: <i>BUS TRANSPORTATION FACILITIES</i>	Phone/ Fax:
City, State, Zip: <i>(SEE ATTACHED)</i>	Email:

**MOBILE SERVICE TRUCKS:**

Contractor shall operate several mobile service trucks as necessary for statewide coverage in South Carolina. These trucks must run on a timely schedule and be fully equipped for service and repairs as necessary. These trucks must be manned with trained repair personnel and shall be driven to user's site, anywhere in the state, for purpose of immediately diagnosing and repairing any problem occurring with units purchased from the contractor, including for example; recall work, air conditioning service, minor engine and body repairs, and electrical troubleshooting. It is not expected that the service truck will be equipped to perform major repair operations or complex diagnostic work. Mobile service trucks must be ready to perform services for this contract within 90 days of award of contract. Contractor's service trucks shall be so operated for a minimum period of five (5) years after award of contract. Service trucks shall arrive at user's site within 2 work days after request by user. All service truck calls shall be documented by contractor with date and time of initial service request and date and time of response. Contractor shall provide this information, when requested, in an electronic format within 5 days of request.

The State reserves the right to require a minimum number of service trucks if contractor does not meet the above expectations. The State also reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in meeting these requirements.

For information purposes only, please indicate the number of service trucks that will be used for this contract.

Number of Service Trucks: 3

Service/Repair Facilities (continued from Page 18 of solicitation)

Cummins Atlantic

231 Farmington Rd.  
Summerville, SC 29483  
Contact: Service Manager  
Phone (843) 851-9819  
Fax (843) 875-4338

2791 Shop Rd.  
Columbia, SC 29209  
Contact: Service Manager  
Phone (803) 799-2410  
Fax (803) 779-3427

3137 Hwy. 701 S  
Loris, SC 29569  
Contact: Service Manager  
Phone (843) 716-7072  
Fax (843) 756-6112

260 Commercial Rd.  
Spartanburg, SC 29303  
Contact: Service Manager  
Phone (864) 208-2657  
Fax (864) 208-2658

3700 Jeff Adams Dr.  
Charlotte, NC 28206  
Contact: Service Manager  
Phone (704) 596-7690

Cummins Power South

5534 Augusta Rd.  
Savannah, GA 31407  
Contact: Service Manager  
Phone (912) 232-5505

2923 River West Dr.  
Augusta, GA 30907  
Contact: Service Manager  
Phone (706) 722-8825

W.W. Williams

1835 S. Hwy. 101  
Greer, SC 29651  
Contact: Service Manager  
Phone (864) 877-0935  
Fax (864) 848-1176

2610 Augusta Rd.  
W. Columbia, SC 29169  
Contact: Service Manager  
Phone (803) 791-5910  
Fax (803) 794-2527

7100 Design St.  
N. Charleston, SC 29418  
Contact: Service Manager  
Phone (843) 225-7121  
Fax (843) 225-7122

14 Westgate Blvd.  
Savannah, GA 31405  
Contact: Service Manager  
Phone (912) 232-2602  
Fax (912) 232-2607

Thermo King

935 Commerce Circle  
Charleston, SC 29410  
Contact: Service Mgr.  
Phone (843) 744-5040  
Fax (843) 554-3326

2716 Shop Rd.  
Columbia, SC 29206  
Contact: Service Mgr.  
Phone (803) 695-8880  
Fax (843) 695-8886

302 E. Camp Ground Rd.  
Florence, SC 29501  
Contact: Service Mgr.  
Phone (843) 665-1946  
Fax (843) 665-1932

161 Old Sulphur Springs Rd.  
Greenville, SC 29607  
Contact: Service Mgr.  
Phone (864) 297-1860  
Fax (864) 297-7247

Covington Power Service

1815 Starita Rd.  
Charlotte, NC 28206  
Contact: Service Mgr.  
Phone (704) 596-8000

## SCDOE SCHOOL BUS MAINTENANCE FACILITIES

### **BEVILLE**

(Abb., And. 3, McCormick)  
Kevin Ware, Clerk  
, Foreman  
(Co. Supvr.)  
(Foreman)

### **Robert Dansby, Sr.**

791 Hwy. 28 Bypass  
Abbeville, SC 29620-5546  
Phone: **864-366-4988**  
Cell: 803-331-6536  
Cell: 803-331-6534  
Fax: 864-366-5804

### **CALHOUN**

(Calhoun, Lexington 4)  
Leann Fulmer, Clerk  
Mike Haigler, Foreman  
(Co. Supvr.)  
(Foreman)

### **Brian Crider**

302 Milligan Circle  
St. Matthews, SC 29135-9309  
Phone: **803-874-3374**  
Cell: 803-331-5291  
Cell: 803-331-5178  
Fax: 803-874-3955

### **AIKEN**

(Aiken)  
Tracy Yarbrough, Clerk  
Roger Boatwright, Foreman  
Willie Sizemore, Asst. Foreman  
(Co. Supvr.)  
(Foreman)  
(Asst. Foreman)

### **Robert Hoffman**

1574 Columbia Highway  
Aiken, SC 29801-8744  
Phone: **803-641-7635**  
Cell: 803-586-0849 (P)  
Cell: 803-331-6581  
Cell: 803-331-6511  
Fax: 803-641-7637

### **CHARLESTON**

(Charleston)  
Katrina Krolak, Clerk  
Kenneth Bligen, Assistant  
Foreman  
(Co. Supvr.)  
(Shop Mgr.)

### **R. Sloan Reeves, County Supvr. Andrew Williams, Shop Mgr.**

2715 Rourk Street  
N. Charleston, SC 29405-7412  
Phone: **843-740-1640**  
Cell: 803-331-6073  
Cell: 803-331-6215  
Fax: 843-740-1642

### **ANDERSON**

(Anderson 1, 2, 4, 5)  
Mary Sanders, Clerk  
William Brock, Foreman  
(Co. Supvr.)  
(Foreman)

### **Robbie Adams**

2620 Midway Road  
Anderson, SC 29621-2627  
Phone: **864-225-4631**  
Cell: 864-221-6800 (P)  
Cell: 803-331-6202  
Fax: 864-224-5917

### **CHEROKEE**

(Cherokee)  
Jay Powell, Clerk  
Gilbert Smith, Foreman  
(Co. Supvr.)  
(Foreman)  
(Darryl Pennington, Tech II)

### **Harold Graham, Acting**

3144 Union Highway  
Gaffney, SC 29340-5136  
Phone: **864-489-6576, 487-3377**  
Cell: 864-978-4231 (P)  
Cell: 864-561-0007 (P)  
Cell: 803-331-5432  
Fax: 864-487-3377

### **AUFORT**

(Beaufort, Jasper)  
, Clerk  
Rusty Wright, Foreman  
(Co. Supvr.)  
(Foreman)

### **Edward Michels**

202 Broad River Boulevard  
Burton, SC 29906-4212  
Phone: **843-525-0960** or  
**843-521-0478**  
Cell: 803-331-6211  
Cell: 803-331-6213  
Fax: 843-525-0355

### **CHESTER**

(Chester, York 3)  
Ronnice Ferrell, Clerk  
Roger Holmes,  
Assistant Foreman  
(Shop Mgr.)  
(Asst. Foreman)

### **Steve Tucker, County Supvr. (See York Shop)**

**Alan Martin, Shop Manager**  
553 Wilson Street  
Chester, SC 29706-2138  
Phone: **803-581-6131**  
Cell: 803-331-6194  
Cell: 803-331-6197  
Fax: 803-581-6132

### **BERKELEY**

(Berkeley)  
Jodi Lynn Pescod-Brown, Clerk  
William Hoff, Foreman  
(Co. Supvr.)  
(Foreman)  
(David Warhurst, Tech II)

### **Jeffrey Ray**

650 Whitesville Road  
Moncks Corner, SC 29461-2725  
Phone: **843-761-8590**  
Cell: 803-331-5530  
Cell: 803-331-5750  
Cell: 803-609-4960  
Fax: 843-761-8711

### **CHESTERFIELD**

(Chesterfield)  
Sheila Huggins, Clerk  
Wayne Southard, Foreman  
(Co. Supvr.)  
(Foreman)

### **Edgar T. Redfearn**

136 Highway 265  
Ruby, SC 29741-8794  
Phone: **843-623-7741**  
Cell: 803-331-5195  
Cell: 803-331-5031  
Fax: 843-623-6521

### **BLACKVILLE**

(Bamb. 1, 2, B'well 19, 29, 45)  
Jennie Wise, Clerk  
Robert Taylor, Foreman  
(Co. Supvr.)  
(Foreman)

### **Bill Bodiford**

565 Country Club Road  
Blackville, SC 29817-3007  
Phone: **803-284-2349, 284-2269**  
Cell: 803-331-6264  
Cell: 803-331-6192  
Fax: 803-284-2269

### **CLARENDON**

(Clarendon 1, 2, 3)  
Regina Bozier, Clerk  
Kenneth Murray, Foreman  
(Co. Supvr.)  
(Foreman)

### **Mark Catoe**

210 Sumter Street  
Manning, SC 29102-2732  
Phone: **803-435-2249**  
Cell: 803-331-5422  
Cell: 803-331-5277  
Fax: 803-435-2350

### **BRUNSON**

(Allen., Colleton, Hamp. 1, 2)  
Jimmy Crapse, Clerk  
Alan Terry, Foreman  
(Co. Supvr.)

### **Lewis Ramsey**

190 Prince William Road  
Brunson, SC 29911-4302  
Phone: **803-632-3318 (3319)**  
Cell: 803-331-6508

**COLLETON**

(Charleston, Colleton)  
 Amy Alsbrook, Clerk  
 Dane Pence, Foreman  
 (Co. Supvr.)  
 (Foreman)

**CONVERSE**

(Spartanburg 2, 3, 7)  
 Janet Goode, Clerk  
 Joseph Balentine, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Alton Hawkins, Tech II)

**DARLINGTON**

(Darlington)  
 Judy Kirven, Clerk  
 Reginald Price, Foreman  
 (Co. Supvr.)  
 (Foreman)

**DORCHESTER**

(Dorch. 4, Orang. 3, 5)  
 Debbie Clark, Clerk  
 Marion Glenn, Foreman  
 (Co. Supvr.)  
 (Foreman)

**FAIRFIELD**

(Fairfield, Lexington 5)  
 Beth McGarity, Clerk  
 Lucas Patrick, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Berley Rister, Tech II)

**FLORENCE**

(Florence 1, 2, 4, 5)  
 Lloyd Bonds, Clerk  
 Joey Poston, Foreman  
 (Co. Supvr.)  
 (Foreman)

**GEORGETOWN**

(Charleston, Georgetown)  
 Tressie Lambert, Clerk  
 William Stuckey, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Larry Morris, Tech II)

**Wayne Eadon**

407 Old Air Base Road  
 Walterboro, SC 29488-3174  
 Phone: 843-549-5549  
 Cell: 803-331-4712  
 Cell: 803-331-5376  
 Fax: 843-549-1230

**VACANT**

537 Burns Road  
 Spartanburg, SC 29307-5402  
 Phone: 864-579-2130,  
 579-2131  
 Cell: 864-680-3024 (P)  
 Cell: 803-331-5528  
 Cell: 803-331-5473  
 Fax: 864-579-4532

**Charles Brigman**

212 Knotty Pine Road  
 Darlington, SC 29532-6133  
 Phone: 843-393-3041  
 Cell: 803-331-5774  
 Cell: 803-331-5062  
 Fax: 843-393-3045

**Jean P. Clayton**

347 Academy Road  
 St. George, SC 29477-8008  
 Phone: 843-563-4242  
 Cell: 803-331-5466  
 Cell: 803-331-5487  
 Fax: 843-563-5397

**Susan Jordan**

365 Shrine Circle  
 Winnsboro, SC 29180-5925  
 Phone: 803-635-4126  
 Cell: 803-215-9424 (P)  
 Cell: 803-331-7767  
 Cell: 803-331-7709  
 Fax: 803-635-4326 (Call first)

**Bill Stubbs**

2614 E. National Cemetery Road  
 Florence, SC 29506-5145  
 Phone: 843-662-1156  
 Cell: 803-331-5950  
 Cell: 803-331-5163  
 Fax: 843-662-4946

**Donna Dorn**

515 Washington Street  
 Georgetown, SC 29440-2655  
 Phone: 843-546-4752  
 Cell: 803-331-5901  
 Cell: 843-372-9017 (P)  
 Cell: 803-331-5753  
 Fax: 843-527-4206

**GREENVILLE**

(Greenville)  
 Lee Ann Patton, Clerk  
 Russell Rosemond, Foreman  
 (Co. Supvr.)  
 (Foreman)

**Melody Bullman**

341 Halton Road  
 Greenville, SC 29607-3405  
 Phone: 864-288-3661  
 Cell: 803-360-6557  
 Cell: 803-360-6679  
 Fax: 864-288-1404

**GREENWOOD**

(Greenwood 50, 51, 52)  
 Mike Godfrey, Clerk  
 Jason Sanders, Foreman  
 (Co. Supvr.)  
 (Foreman)

**Mike Bridges**

412 Wingert Road  
 Greenwood, SC 29649-9665  
 Phone: 864-229-1115  
 Cell: 803-360-6712  
 Cell: 803-360-6701  
 Fax: 864-229-7639

**HORRY**

(North & Central Horry)  
 Shirley Floyd, Clerk  
 Lamont Graham,  
 Asst. Foreman  
 (Shop Manager)  
 (Asst. Foreman)

**Theron Hunter, County Supvr.**  
(See Socastee Shop)

**Steve Rushing, Shop Manager**  
 3275 Highway 701 North  
 Conway, SC 29526-5734  
 Phone: 843-365-5541  
 Cell: 803-331-8106  
 Cell: 803-609-4959  
 Fax: 843-365-4403

**JOHNSTON**

(Aiken, Edge., Lex. 3, Saluda)  
 Shirley Bush, Clerk  
 Robert Howard, Foreman  
 (Co. Supvr.)  
 (Foreman)

**Thomas Holmes**

865 Roland Avenue  
 Johnston, SC 29832-3142  
 Phone: 803-275-4311, 275-3057  
 Cell: 803-480-3265 (P)  
 Cell: 803-331-7698  
 Fax: 803-275-4339

**KERSHAW**

(Kershaw)  
 Donna Langley, Clerk  
 Thomas Williams, Foreman  
 (Co. Supvr.)  
 (Foreman)

**Otis Bowers**

205 King Street  
 Camden, SC 29020-4719  
 Phone: 803-432-3131, 432-0137  
 Cell: 803-360-6439  
 Cell: 803-331-8193  
 Fax: 803-432-9357

**LANCASTER**

(Lancaster, York 4)  
 Karen Sims, Clerk  
 James Oswald, Foreman  
 (Co. Supvr.)  
 (Foreman)

**Garrett Plyler**

3467 Kershaw-Camden Hwy.  
 Heath Springs, SC 29058-9131  
 Phone: 803-286-4487  
 Cell: 803-360-6697  
 Cell: 803-331-8179  
 Fax: 803-286-5753 (call first)

**LATTA**

(Dill. 1, 2, 3, Horry, Mar. 1, 2, 7)  
 Samuel Church, Clerk  
 Terry McGirt, Foreman  
 (Co. Supvr.)  
 (Foreman)

**Rod Boyette**

7452 N. Highway 501  
 Latta, SC 29565-5281  
 Phone: 843-423-1142  
 Cell: 803-331-6041  
 Cell: 803-331-6010  
 Fax: 843-423-1143

**LAURENS**

(Laurens 55, 56)  
 Scott Lawson, Clerk  
 Randall Mills, Foreman  
 (Co. Supvr.)  
 (Foreman)

**LEE**

(Lee)  
 Frances Melton, Clerk  
 Timothy Baird, Foreman  
 (Co. Supvr.)  
 (Foreman)

**LEXINGTON**

(Lexington 1, 2)  
 Ronnie Boatwright, Clerk  
 Edward Bailey, Clerk  
 Thomas Price, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Bruce Price, Asst. Foreman)

**LOWER****RICHLAND**

(Richland 1)  
 Angela Wilson, Clerk  
 Lester Free, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Titus Gary, Tech II)

**MARLBORO**

(Marlboro)  
 Nancy McDowell, Clerk  
 Fred Thompson, Foreman  
 (Co Supvr. & Foreman)  
 (James McLaurin, Tech II)

**NEWBERRY**

(Lexington 5, Newberry)  
 Kevin Evans, Clerk  
 Steve Kinard, Foreman  
 (Co. Supvr.)  
 (Foreman)

**OCONEE**

(Oconee)  
 Sam Murphy, Clerk  
 Leonard Bond, Foreman  
 (Foreman)  
 (James McAllister, Tech II)

**Michael White**

310 Fairground Road  
 Laurens, SC 29360-7643  
 Phone: 864-682-3346  
 Cell: 803-331-5745  
 Cell: 803-331-5582  
 Fax: 864-682-9188

**Dennis Roberts**

444 Wisacky Highway  
 Bishopville, SC 29010-1766  
 Phone: 803-484-5811  
 Cell: 803-331-5449  
 Cell: 803-331-8097  
 Fax: 803-484-6806

**Kenny Boatwright**

309 Barr Road  
 Lexington, SC 29072-2435  
 Phone: 803-359-9460  
 Cell: 803-687-2654 (P)  
 Cell: 803-767-6625 (P)  
 Cell: 803-530-5685 (P)  
 Fax: 803-359-9530

**Willie Chiles**

1511 Rabbit Run  
 Hopkins, SC 29061-8577  
 Phone: 803-776-4772  
 Cell: 803-960-4686 (P)  
 Cell: 803-360-6810  
 Cell: 803-360-6787  
 Fax: 803-776-7047

**Rennie Hunsucker**

155 Throop Street  
 Bennettsville, SC 29512-4613  
 Phone: 843-479-6661  
 Cell: 803-360-6761  
 Cell: 803-360-6728  
 Fax: 843-479-0240

**Curtis Dominick**

1150 Airport Road  
 Newberry, SC 29108-1415  
 Phone: 803-276-5332  
 Cell: 803-331-8112  
 Cell: 803-331-7965  
 Fax: 803-276-8601

**Weston Hiott**

125 East Bear Swamp Road  
 Walhalla, SC 29691-5043  
 Phone: 864-638-2015  
 Cell: 803-331-7768  
 Cell: 803-331-7810  
 Fax: 864-638-5074 (Call first)

**ORANGEBURG**

(Orangeburg 4, 5)  
 Faye Wolfe, Clerk  
 Johnny Geiger, Foreman  
 (Co. Supvr.)  
 (Foreman)

**PICKENS**

(Pickens)  
 Greg Holder, Clerk  
 Jerry Trotter, Foreman  
 (Co. Supvr.)  
 (Foreman)

**RICHLAND**

(Richland 1, 2)  
 Spencer Brown, Clerk  
 Alvin Belton, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Robert Flemming, Tech II)

**SOCASTEE**

(South Horry)  
 Wanza Alford, Clerk  
 Gary Watts, Asst. Foreman  
 (Shop Manager)  
 (Asst. Foreman)

**SPARTANBURG**

(Spartanburg 1, 5, 6)  
 Clerk  
 Jeremy Martin, Foreman  
 (Co. Supvr.)  
 (Foreman)  
 (Jeremy Martin, Tech II)

**SUMMERVILLE**

(Berkeley, Chas., Dorch. 2)  
 Terri Harwell, Clerk  
 Alan Wenzel, Foreman  
 James Johnson, Asst. Foreman

(Co. Supvr.)  
 (Foreman)  
 (Asst. Foreman)

**Robert Rickenbacker**

2941 Bamberg Road  
 Orangeburg, SC 29115-9589  
 Phone: 803-534-2627  
 Cell: 803-331-7958  
 Cell: 803-360-6760  
 Fax: 803-534-9765

**Rick Anthony**

680 Ireland Road  
 Pickens, SC 29671-9079  
 Phone: 864-878-2209  
 Cell: 803-331-8096  
 Cell: 803-360-6523  
 Fax: 864-878-5264 (Call first)

**Patricia Drake**

8016 Wilson Boulevard  
 Columbia, SC 29203-9758  
 Phone: 803-735-8274  
 Cell: 803-530-0312 (P)  
 Cell: 803-331-7978  
 Cell: 803-331-7936  
 Fax: 803-754-3059

**Robert Grimes, County Supvr.**

Phone: 843-293-6771  
 Cell: 803-331-8156

**Mitchell Martin, Shop Manager**

5100 Lafon Lane  
 Myrtle Beach, SC 29588  
 Phone: 843-293-6059 or 293-6769  
 Cell: 803-609-4958  
 Cell: 803-608-6393  
 Fax: 843-293-6456

**Jerry Casey**

Road 41 & Casual Drive  
 P. O. Box 253  
 Fairforest, SC 29336-0253  
 Phone: 864-576-1810 or 576-7041  
 Cell: 864-809-3580 (P)  
 Cell: 803-360-6661  
 Cell: 803-331-7888  
 Fax: 864-576-1838

**Garry A. Fast**

3243 Von Oshen Road  
 Summerville, SC 29485-7309  
 Phone: 843-873-1007  
 Cell: 843-860-4701 (P)  
 Cell: 843-425-6957 (P)  
 Cell: 803-608-6389  
 Fax: 843-875-7601

**SUMTER**

(Sumter 2, 17)

Heather Reynolds, Clerk  
Bruce Tucker, Foreman  
(Co. Supvr.)  
(Foreman)

**Frank Waggoner**

302 Mooneyham Road  
Sumter, SC 29153-7722  
Phone: **803-773-6315**  
Cell: 803-331-6440  
Cell: 803-331-6446  
Fax: 803-773-4874 (Call first)

**TAYLORS**

(Greenville)

Kathy Kugler, Clerk  
Rudy Van Den Meiracker,  
Foreman  
(Co. Supvr.)  
(Foreman)  
(Bud Duncan, Tech II)

**Phil Cochran**

2809 Locust Hill Road  
Taylors, SC 29687-5841  
Phone: **864-879-2141, 879-2142**  
Cell: 864-380-5300 (P)  
Cell: 803-331-7902  
Cell: 803-331-6022  
Fax: 864-879-7423

**UNION**

(Spartanburg 4, Union)  
Sue Haney, Clerk  
Richard Sanders, Foreman

(Co. Supvr.)  
(Foreman)

**Harold Graham**

1734 Jonesville Highway  
Union, SC 29379-9792  
Phone: **864-427-9594** or  
**864-427-7788**  
Cell: 803-331-7863  
Cell: 803-530-4432  
Fax: 864-429-0931

**WILLIAMSBURG**

(Florence 3, Williamsburg)  
Jessica Graham, Clerk  
Andrew Gleason, Foreman  
(Co. Supvr.)  
(Foreman)

**Franklin James**

1990 Thurgood Marshall Highway  
Kingstree, SC 29556-5583  
Phone: **843-354-6121**  
Cell: 803-331-8110  
Cell: 803-331-8120  
Fax: 843-354-6611

**YORK**

(York 1, 2, 3)

Daris Greenway, Clerk  
William Starnes,  
Assistant Foreman  
(Shop Manager)  
(Asst. Foreman)

**Stephen Tucker, County Supvr.**

Phone: 803-628-1452  
Cell: 803-322-4083 (P)  
or 803-331-8075

**Joe Gilfillan, Shop Manager**

1470 McFarland Road  
York, SC 29745-8573  
Phone: **803-684-6839, 684-2802**  
Cell: 803-331-6332  
Cell: 803-331-6349  
Fax: 803-684-3657

**CAREER  
DEVELOPMENT  
CENTER**

Jocelyn Kennedy, Admin.  
Specialist

**Fred Henley**

8016 Wilson Boulevard  
Columbia, SC 29203-9758  
Phone: **803-735-1423**  
Cell: 803-608-6380  
Fax: 803-735-0831

(P) = Personal Cell Phone

TAB 3

# QUESTIONNAIRE FOR TYPE C BUSES

For your convenience in replying to the questions below, they generally follow the sequence of provisions in the associated specifications. The answers to the questions in the first section, "Features common to all bus body sizes," are expected to apply to same, and therefore need to be answered only one time. However, if there ARE differences in the answers for different bus body sizes, please fully explain in your answer. The second section, "Features which vary, or may vary, with bus body size," shall be duplicated by bidder as required, in order to answer separately by bus body size.

## Section 1: Features common to all bus body sizes

1. Bidder: INTERSTATE TRANSPORTATION EQUIPMENT, INC.
2. Bidder address: P.O. Box 9163 COLUMBIA, SC 29290 (USPS)
3. Engine: Make CUMMINS, Model ISB 2511 TROTTER RD. HOPKINS, SC 29061 (PHYS. LOC.)  
Rated HP 220, Rated torque 520  
Engine meets 2010 EPA emissions level standards YES (yes/no)  
Engine is certified by engine manufacturer to be B20 compatible as furnished on buses under this contract; YES (yes/no)
4. Transmission, number of speeds forward 5
5. Brake size, front 15" x 4" Brake size, rear 16.5" x 7"
6. Rear axle ratio: School bus: 6.43
7. Battery CCA each 950, Number of batteries 2, Battery BCI group 31
8. Service brake air compressor, rating 18.7 CFM. Make: WABCO Model: CP9574-5286959
9. Are automatic slack adjusters provided in accordance with ("in accordance with" abbreviated henceforth as "IAW") requirements herein? YES (yes/no)
10. Is antilock braking system provided IAW requirements herein? YES (yes/no)
11. Front bumper thickness: 1/4 "
12. Is exhaust system provided IAW requirements herein? YES (yes/no)
13. Chassis frame rails: Is each of one-piece construction? YES (yes/no),  
Yield strength of chassis frame rails: 120,000 psi
14. Is all chassis wiring and grounding furnished IAW requirements herein? YES (yes/no)
15. Will fuel system as provided, including tank(s), filters, water separators, fuel bowls, water sensors, primer, pumps, and all other components, meet all requirements for configuration, construction, and component mounting, and for fueling, under "Fuel Tank" in the attached specification"? YES (yes/no)  
Fuel fill rate without activation of automatic shut-off feature before tank is filled to minimum of 80% full rated capacity, when bus is elevated 5" from level on side AWAY from fueling port, per requirement herein 25 gal per minute.
16. Alternator output 270 amps

17. Type of electrical system furnished is (check one):  
 \_\_\_ conventional fuses/circuit breakers, or  multiplexing/electronic system control
18. Noise level at driver seat when test IAW 2005 National Standards for School Transportation, or latest revision thereof, Appendix B 72.6 decibels.
19. Is chassis rear suspension of the "air ride" type? YES (yes/no)
20. Is bus equipped with driver-controlled adjustment for tilt of the steering wheel? YES (yes/no)
21. Tire size conventional floor buses: 11R22.5, ply rating 16, load range H  
 Manufacturer GOODYEAR, Model G661 HSA
22. Rim width, conventional floor 8.25
23. Transmission: Make ALLISON, Model PTS 2500  
 Is load-based shift scheduling provided? YES (yes/no)
24. In connection of parts of the body structure (frame members to one another), in any case where adhesives are used, are they used IN COMBINATION WITH welds, rivets, or high-strength bolts (or a combination of these fastening methods), as required herein? YES (yes/no)
25. Does all cold-formed and hot-rolled steel meet the design requirements called for herein? YES (yes/no)
26. Are all coated and uncoated steel components provided IAW thicknesses required herein in all cases where thickness gauges are specified for such components? YES (yes/no)
27. Is floor designed to support all fixed and changeable loads using values therefore as required herein? YES (yes/no)
28. Body floor: Metal gauge: 14, Plywood grade (A,B, etc.): B, No of plies: 5  
 Is plywood of the Marine type? YES (yes/no)
29. Main floor sill gauge: 12, Intermediate floor sill gauge (if applicable): 12
30. Sill spacing 10 "
31. Describe mfr's substantiation that the strength of any joint or gusset connection in the bus body transverse and longitudinal frame members is equal to or greater than that of a continuous member:  
(SEE ATTACHED SUBSTANTIATION)
- 
32. Thickness (in gauge) of steps in stepwell 14 GA
33. Is floor covering under seats, over wheel housings, and in driver's compartment in accordance with all requirements herein? YES (yes/no)  
 Is floor covering in aisle and entrance area in accordance with all requirements herein? YES (yes/no)
34. Body posts/bow frames:  
 Depth 1.56 ", Thickness 14 GA, Spacing between centers 30 "  
 Section modulus of cross section .233 in<sup>3</sup>.
- Have detailed engineering drawings showing size and shape of cross section and detailed calculations verifying that section meets requirements been submitted? YES (yes/no)

35. Is each set of side post members and bow frame one continuous piece? YES (yes/no). If not, has bidder submitted detailed drawing of the joint? N/A (yes/no)
36. Has roof stringer system as designed and built been subjected to the static load test called for herein (via FMVSS), and successfully passed same? YES (yes/no)
37. Side stringer: Width before forming 5.74 ", Thickness 16 GA
38. If applicable, cowl post thickness N/A GA, Attaching member thickness N/A GA CLOSED CLAMHELL DESIGN UTILIZED.
39. Emergency door post thickness 11 GA
40. Skirt reinforcement cross-sectional dimensions: 1.6 X 5.1 X 19.32L, ON 30" CENTERS
41. Is window framing constructed IAW requirements herein? YES (yes/no)
42. Exterior sheet metal skin thickness (except cowl panel, wheel housing, and body hoods) 20 GA
43. If applicable, cowl panel thickness N/A GA, Cowl panel framing thickness N/A GA CLOSED CLAMHELL DESIGN UTILIZED.
44. Wheel housing thickness 16 GA
45. Guard rail thickness 16 GA
46. Does body fully meet all applicable FMVSS requirements, specifically including FMVSS 220 and FMVSS 221? YES (yes/no)
47. Interior roof sheet metal lining thickness 20 GA
48. Panels from window sill to seat rail, thickness 24 GA
49. Does all material used in seat cushions and backs meet FMVSS 302? YES (yes/no)
- Is all seat material of the type known as "fire-block"? YES (yes/no)
- Do all seats meet FMVSS 222? YES (yes/no)
- Do all seating configurations offered herein meet requirements for seat depth, seat width, kneespace dimension, and aisle spacings? YES (yes/no)
50. Are Child Safety Restraint Systems (CSRS) provided and installed IAW requirements herein? YES (yes/no)
- CSRS Make: FMMI Model: SAFEGUARD ICS-39
51. Are passenger seat cushion pads and seat back pads provided IAW requirements herein? YES (yes/no)
52. Is driver's seat of high-back air suspension type? YES (yes/no)
- Make NATIONAL, Model ABTS-AIR
- Is driver's seat, with integrated 3-point lap and shoulder harness provided IAW requirements herein, including length of useable belt as defined herein? YES (yes/no)
53. Is the upholstery material used to cover all seat cushions and backs provided IAW all detailed requirements therefor herein? YES (yes/no)
- Finished weight of upholstery material 42 oz./yd<sup>2</sup>
54. Does crash barrier meet FMVSS 222 and 302, and is its covering of the fire-block type? YES (yes/no)

55. Is electrical system, including wiring, grounding, control panel, relays (or multiplexing, if offered), interior lights, clearance/marker lights, eight-light warning system, flashing stop arm, turn signals, tail/stop lights, strobe light, back-up lights, license plate lights, backup warning alarm, emergency door buzzer, accessory power point receptacle, electrical panels, and all other electrical system components provided IAW requirements herein? YES (yes/no)
56. When tested IAW The Bus Body Heating System Test as defined in Appendix B of the 2005 National School Bus Transportation Specifications and Procedures, and when the bus is soaked in an ambient temperature of 0° F for 15 hours, does the bus body heating system offered create a temperature rise to 50° F inside the body shell in 20 minutes, as called for herein? YES (yes/no)
57. Is cabin heating system provided in accordance with all requirements herein for each bus configuration? YES (yes/no)
58. Are body insulation, entrance door, emergency door, and safety roof vents provided IAW requirements herein? YES (yes/no)
59. Do windshield and all other windows and glass meet all requirements applicable thereto as specified herein? YES (yes/no)
60. Are all mirror systems and all components thereof provided IAW requirements herein? YES (yes/no)
61. Is all metal used in construction of bus body coated and painted IAW the applicable requirements under "Metal Treatment and Painting" herein? YES (yes/no)
62. In lift-equipped buses, make and model of power lift: BRAUN NL 917 SERIES
63. Will mobility aid securement (wheelchair anchor) and occupant securement systems, where provided (including button type track installation where called for herein), meet all requirements therefore as stated herein? YES (yes/no)
- Has mobility aid securement and occupant restraint system been tested to and passed a 30 MPH/20g force impact test per SAE J2249 and the physical test requirements herein? YES (yes/no)
64. In lift equipped school bus, is continuous button tracking for wheelchair and passenger securement provided in accordance with all requirements herein? YES (yes/no)
65. Does engine coolant meet all requirements herein? YES (yes/no)
66. Will air conditioning system as furnished reduce school bus inside air temperature by 20° F in 20 minutes? YES (yes/no)

In all units where air conditioning system is required, will system be fully in accordance with all requirements herein? YES (yes/no)

Location of air conditioning system rear blower unit BULKHEAD, FLUSH-MOUNTED

41-passenger bus: 60,000 BTU, No. of compressors 1, No. of condensers 1,  
No. of flush mounted free blow units: 1 Make: MCC/CARRIER Model: IW-1

66-passenger bus: 120,000 BTU, No. of compressors 2, No. of condensers 2,  
No. of roof mounted free blow units: 1 Make: MCC/CARRIER Model: EM-1  
No. of flush mounted units: 1 Make: MCC/CARRIER Model: IW-1

**Section 2: Features which vary, or may vary, with bus body size**

67. Line item number(s): 1 + 1A

68. Chassis dimensions:

Basic pupil load 27 students + 2 WHEELCHAIR LOCATIONS

GVWR 31,000 lbs.

Wheelbase 199 "

Front axle capacity, rated 10,000 lbs.

Rear axle capacity, rated 21,000 lbs.

69. Body dimensions:

Overall outside body width 96 "

Height of body from top of finished floor to underside of ceiling at centerline 77 "

Overall length of body 315.6 " (OVERALL LENGTH OVER BUMPERS 359.7")

70. Capacity of fuel tank(s), each: tank #1 60 gal, tank #2 (if applicable) N/A gal

Fuel tank(s) location: BETWEEN-THE-RAILS <sup>FRAME</sup> (BTR), AFT OF REAR AXLE

71. Rear cabin heater Make: BERGSTROM Model: 710135 Rated

BTU's: 50,000

**END OF QUESTIONNAIRE**

**Section 2: Features which vary, or may vary, with bus body size**

67. Line item number(s): 2-62A, 3-63A

68. Chassis dimensions:

Basic pupil load 66 students

GVWR 31,000 lbs.

Wheelbase 259 "

Front axle capacity, rated 10,000 lbs.

Rear axle capacity, rated 21,000 lbs.

69. Body dimensions:

Overall outside body width 96 "

Height of body from top of finished floor to underside of ceiling at centerline 77 "

Overall length of body 395.6 " (OVERALL LENGTH OVER BUMPERS 439.7")

70. Capacity of fuel tank(s), each: tank #1 60 gal, tank #2 (if applicable) N/A gal

Fuel tank(s) location: BETWEEN-THE-FRAME RAILS (BTR), AFT OF REAR AXLE

71. Rear cabin heater Make: BERGSTROM Model: 710132C Rated

BTU's: 84,000

**END OF QUESTIONNAIRE**

## IV. INFORMATION FOR OFFERORS TO SUBMIT

### INFORMATION FOR OFFERORS TO SUBMIT – GENERAL (JAN 2006)

Offeror shall submit a signed Cover Page and Page Two. Offeror should submit all other information and documents requested in this part and in parts II.B. Special Instructions; III. Scope of Work; V. Qualifications; VIII. Bidding Schedule/Price Proposal; and any appropriate attachments addressed in section IX. Attachments to Solicitations. [04-4010-1]

### DOCUMENTS REQUIRED WITH BID

Bidder must furnish with the bid the documents listed below.

- (a) Completed questionnaire for each line item offered.
- (b) Scale drawings of body layout, showing all seating positions for all body configurations identified in the bid.
- (c) Drawings of specific components or subassemblies, as may be required elsewhere herein.
- (d) Calculations, as may be required elsewhere herein.
- (e) Manufacturer's unaltered published literature describing standard chassis and body, including listing of standard exterior colors. It is understood that the standard bus described in such literature may not be exactly the same as the equipment offered herein.
- (f) Listing of locations of stocks of repair parts for chassis, powertrain, and body.
- (g) Warranty specimens, if requested elsewhere herein. If not so requested by execution of bid, bidder agrees that any such warranty specimens included with the bid will be considered for informational purposes only, and will not be considered in the determination of the contract award.
- (h) Lists of equipment to be furnished with the vehicle(s) are NOT required, and if provided with the bid will not be considered in the determination of the contract award.
- (i) Any other documentation that may be elsewhere required herein.

Bids which do not comply with these requirements may be subject to rejection.

**\*\*NOTE:** The State reserves the right to request additional drawings and documentation as it deems necessary. Any additional drawings or documentation requested must be provided within 5 days of request at no charge to the State.

### MINORITY PARTICIPATION (JAN 2006)

Is the bidder a South Carolina Certified Minority Business? [ ] Yes [X] No

Is the bidder a Minority Business certified by another governmental entity? [ ] Yes [X] No

N/A If so, please list the certifying governmental entity: \_\_\_\_\_

Will any of the work under this contract be performed by a SC certified Minority Business as a subcontractor? [ ] Yes [X] No

N/A If so, what percentage of the total value of the contract will be performed by a SC certified Minority Business as a subcontractor? \_\_\_\_\_

Will any of the work under this contract be performed by a minority business certified by another governmental entity as a subcontractor? [ ] Yes [X] No

N/A If so, what percentage of the total value of the contract will be performed by a minority business certified by another governmental entity as a subcontractor? \_\_\_\_\_

N/A

If a certified Minority Business is participating in this contract, please indicate all categories for which the Business is certified:

- Traditional minority
- Traditional minority, but female
- Women (Caucasian females)
- Hispanic minorities
- DOT referral (Traditional minority)
- DOT referral (Caucasian female)
- Temporary certification
- SBA 8 (a) certification referral
- Other minorities (Native American, Asian, etc.)

(If more than one minority contractor will be utilized in the performance of this contract, please provide the information above for each minority business.)

For a list of certified minority firms, please consult the Minority Business Directory, which is available at the following URL: <http://www.govoep.state.sc.us/osmba/>  
[04-4015-1]

TAB 4

## VIII. BIDDING SCHEDULE / PRICE-BUSINESS PROPOSAL

### CONFLICTS BETWEEN OPTION SOLICITATIONS AND SPECIFICATION REQUIREMENTS:

The following pages contain bid sheets and questionnaires. In cases where inadvertently there is a request herein for a price for a feature as an option, when in fact such feature is required in the base vehicle per the attached specifications, the requirement for the feature to be in the base vehicle takes precedence. That is, there shall be no extra charge for the feature, and instead it shall be furnished with the base vehicle.

### BIDDING SCHEDULE (NOV 2007)

Item	Estimated Quantity	Unit of Measure	Base Unit Price	Extended Price
1	25	Each**WITH LIFT, WITHOUT CSRS SEATS	\$ 80,338. <sup>00</sup>	\$ 2,008,450. <sup>00</sup>
1A	25	Each** WITH LIFT & 3 CSRS Seats	\$ 81,730. <sup>00</sup>	\$ 2,043,250. <sup>00</sup>
Product Catg.: 55640 - Passenger School Bus				
Item Description: 41-42 Passenger School Bus - WITH AIR CONDITIONING				
Question		Response		
BODY MAKE:		THOMAS BUILT BUSES		
BODY MODEL:		SAF-T-LINER C2		
CHASSIS MAKE:		FREIGHTLINER		
CHASSIS MODEL:		B2		
DELIVERY TIME - DAYS AFTER RECEIPT OF PURCHASE ORDER (ARO)		120-240 DAYS ARO (BASED ON TIMING OF FINAL ORDER)		
HORSE POWER:		220		
WHEELBASE:		199"		
CSRS SEAT MFR:		IMMI		
CSRS SEAT MODEL:		SAFEGUARD ICS-39		
CSRS Seat \$ <u>464.<sup>00</sup></u> Each				
Maximum # of CSRS seat rows (one row includes both sides of aisle) which can be furnished before any passenger capacity is lost: <u>4.5</u> CSRS seat rows				
Number of individual seating positions lost (vs. default seating configuration) if all allowable seat rows are CSRS: <u>0</u>				

Item	Estimated Quantity	Unit of Measure	Base Unit Price	Extended Price
2	25	Each	\$ 82,277.00	\$ 2,056,925.00
2A	25	Each** WITH 4 CSRS Seats	\$ 84,133.00	\$ 2,103,325.00

Product Catg.: 55640 - Passenger School Bus

Item Description: 65-66 Passenger School Bus - WITH AIR CONDITIONING

Question	Response
BODY MAKE:	THOMAS BUILT BUSES
BODY MODEL:	SAF-T-LINER C2
CHASSIS MAKE:	FREIGHTLINER
CHASSIS MODEL:	B2
DELIVERY TIME - DAYS AFTER RECEIPT OF PURCHASE ORDER (ARO)	120-240 DAYS ARO (BASED ON RECEIVING OF FINAL ORDER)
HORSE POWER:	220
WHEELBASE:	259"
CSRS SEAT MFR:	FMME
CSRS SEAT MODEL:	SAFEGUARD ICS-39
CSRS Seat \$ 464.00 Each	
Maximum # of CSRS seat rows (one row includes both sides of aisle) which can be furnished before any passenger capacity is lost: 11 CSRS seat rows	
Number of individual seating positions lost (vs. default seating configuration) if all allowable seat rows are CSRS: 0	

Item	Estimated Quantity	Unit of Measure	Base Unit Price	Extended Price
3	25	Each	\$ 77,101.00	\$ 1,927,525.00
3A	25	Each** WITH 4 CSRS Seats	\$ 78,957.00	\$ 1,973,925.00

Product Catg.: 55640 - Passenger School Bus

Item Description: 65-66 Passenger School Bus - WITHOUT AIR CONDITIONING

Question	Response
BODY MAKE:	THOMAS BUILT BUSES
BODY MODEL:	SAF-T-LINER C2
CHASSIS MAKE:	FREIGHTLINER
CHASSIS MODEL:	B2
DELIVERY TIME - DAYS AFTER RECEIPT OF PURCHASE ORDER (ARO)	120-240 DAYS ARO (BASED ON TERMS OF FINAL ORDER)
HORSE POWER:	220
WHEELBASE:	259"
CSRS SEAT MFR:	FMMI
CSRS SEAT MODEL:	SAFEGUARD ICS-39
CSRS Seat \$ <u>464.00</u> Each	
Maximum # of CSRS seat rows (one row includes both sides of aisle) which can be furnished before any passenger capacity is lost: <u>11</u> CSRS seat rows	
Number of individual seating positions lost (vs. default seating configuration) if all allowable seat rows are CSRS: <u>0</u>	

**OPTIONAL EQUIPMENT FOR CONVENTIONAL SCHOOL AND ACTIVITY BUSES (Where Applicable)**

The items listed below are optional only. The State may or may not award these items. There is no guarantee that items will be purchased. The bid prices offered below will not be considered in the evaluation of offers, however, items may not be awarded if the pricing is deemed excessive in the State's sole judgment.

ITEM	QTY.	UOM	DESCRIPTION	UNIT COST
1.	1	Each	FMVSS 210 compliant 39" seat to replace standard 39" seat.	\$ <u>72.00</u>
2.	1	Each	FMVSS 210 compliant 30" seat to replace standard 30" seat.	\$ <u>48.00</u>
3.	1	Each	Lap/shoulder belt equipped seat (3 positions) to replace standard 39" seat.	\$ <u>588.00</u>
4.	1	Each	Lap/shoulder belt equipped seat (2 positions) to replace standard 30" seat.	\$ <u>533.00</u>
5.	1	Each	Maximum seat spacing to better accommodate high school students for 66 Passenger Bus – Show Deduct Price Revised Bus Capacity: <u>60 PASSENGER</u>	\$ <u>160.00</u>
6.	1	Each	Shop Manuals* (additional per unit ordered)	\$ <u>NO CHARGE</u>
7.	1	Each	Parts Manuals* (additional per unit ordered)	\$ <u>NO CHARGE</u>

\* AVAILABLE ONLINE & VIN SPECIFIC

NOTE: ITEM #1 INCLUDES 3 ALTERNATE COLORED LAP-TYPE SEAT BELTS.  
ITEM #2 INCLUDES 2 ALTERNATE COLORED LAP-TYPE SEAT BELTS.

TAB 5









TAB 6

Items marked "CONFIDENTIAL"  
have been removed.



June 5, 2012

Thomas Built Buses, Inc.  
PO Box 2450 (27261)  
1408 Courtesy Road  
High Point, NC 27260  
336-889-4871 Phone  
336-889-2589 Fax

Ms. Cheryl Patrick  
State of South Carolina  
Materials Management Office  
1201 Main St, Suite 600  
Columbia, SC 29201

Re: Solicitation Number 5400004167

Ms. Patrick,

Please note that all capable service locations listed in the bid are supplied directly by one adequately stocked centralized parts distribution point. This contact and location information has been detailed below:

Interstate Transportation Equipment, Inc.  
2511 Trotter Rd.  
Hopkins, SC 29061  
Contact: Robert D. Coleman  
Email: [robert@interstatetransportation.com](mailto:robert@interstatetransportation.com)

If you should have any further questions regarding the location of repair parts, please feel free to contact me at 336-881-6072.

Sincerely,

A handwritten signature in cursive script that reads "Cory Compton".

Cory Compton  
Government Fleet Sales Manager



June 5, 2012

Thomas Built Buses, Inc.  
PO Box 2450 (27261)  
1408 Courtesy Road  
High Point, NC 27260  
336-889-4871 Phone  
336-889-2589 Fax

Ms. Cheryl Patrick  
State of South Carolina  
Materials Management Office  
1201 Main St, Suite 600  
Columbia, SC 29201

Re: Solicitation Number 5400004167 – Colorado Racking and Kentucky Pole  
Test Certification

Ms. Patrick,

Thomas Built Buses, Inc. hereby certifies that all Thomas school bus chassis and school bus bodies listed in this bid meet all applicable Federal Motor Vehicle Safety Standards (FMVSS), the specification requirements of Solicitation Number 5400004167, SC Department of Education as well as the National School Transportation Standards and Procedures, May 2005 Revised Edition. TBB performed the various cycle load tests outlined by the Colorado Racking Test specification on the products indicated in this bid with all performance documented readings within deflection tolerances. These products were also tested under the Kentucky Pole Test criteria and also meet their requirements. Please accept this letter as our certification of the Colorado Racking Test as well as the Kentucky Pole Test outlined in the Solicitation Number 5400004167 specifications.

If you have any questions or if I can be of any assistance regarding this document, please feel free to contact me at 336-881-7270.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Elmore", written in a cursive style.

Greg Elmore  
Senior State Specifications Engineer



June 5, 2012

Thomas Built Buses, Inc.  
PO Box 2450 (27261)  
1408 Courtesy Road  
High Point, NC 27260  
336-889-4871 Phone  
336-889-2589 Fax

Ms. Cheryl Patrick  
State of South Carolina  
Materials Management Office  
1201 Main St, Suite 600  
Columbia, SC 29201

Re: Questionnaire for Type C Buses – Question #31

Ms. Patrick,

In response to Item #31 in the Questionnaire, please accept this as substantiation that the strength of any joint or gusset connection in the bus body transverse and longitudinal frame members is equal to or greater than that of a continuous member.

All joints in the bus frame are designed so that the stresses are transferred in the most effective manner. Some joints require more in-depth design analysis. In these cases, certain engineering tools are used to adequately address the design. These tools would include things as simple as manual calculations (such as elementary beam analysis) or much more complex tools such as testing with strain gages or Finite Element Analysis (FEA). The output in all cases is a joint that adequately addresses each individual situation.

Almost all of the frame joints in a Thomas bus are welded in combination with structural adhesives. Joints utilizing structural adhesives and welding are typically extremely strong, when compared to bolted or some other mechanically fastened joint. For example, our rafters, which are continuous transverse members, are joined to the window headers (non-continuous longitudinal member) by welding. While this joint may not be continuously welded, our analysis, testing, and field experience proves that the interrupted member's strength is equal to or greater than that of the uninterrupted member that it is joined to.

Extreme care must be taken when evaluating a frame joint. All factors must be considered not just the separate components of the frame that are being joined. For example, exterior and interior sheeting, and its method and pattern of fastening have a direct impact on the overall structural integrity of the entire joint system.

Thomas Built Buses designs and builds buses that meet all Federal and numerous State regulations concerning structural integrity. These include, but are not limited to, FMVSS 220 School Bus Rollover Protection, FMVSS 221 School Bus Body Joint Strength,

Colorado Racking test, and Kentucky Roof and Side Wall Intrusion test. All of these regulations require no extra reinforcements or structural members in the bus body.

Sincerely,



Greg Elmore  
Senior State Specifications Engineer



Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE <sup>1</sup>	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS <sup>2</sup>	ECS & SPECIAL FEATURES <sup>3</sup>		DIAGNOSTIC <sup>6</sup>
						DDI, TC, CAC, ECM, EGR, OC, PTOX, SCR-U	EMD	
2012	CCEXH0408BAO	6.7	Diesel	Diesel	MHDD			EMD
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL <sup>5</sup>						
30g		N/A						
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)							
6.7	ISB6.7 360 / 3935;FR93948 (360), ISB6.7 250 / 3934;FR93947 (245), ISB6.7 220 / 3934;FR93946 (215)							
*	*							
*	*							
*	*							

<sup>1</sup> =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 88.abc=Title 40, Code of Federal Regulations, Section 88.abc; l=liter; hp=horsepower; kw=kilowatt; hr=hour;  
<sup>2</sup> CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;  
<sup>3</sup> L/MH/HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDD=heavy duty Otto;  
<sup>4</sup> ECS=emission control system; TWC/O=C=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction - urea / - ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a. universal or linear oxygen sensor); TBI=throttle body fuel injection; SP/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; ID/DDI=indirect/direct diesel injection; TC/BC=turbo/super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 1 (prefix)=parallel; 2 (suffix)=in series;  
<sup>5</sup> ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1)); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C)); APS =internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D)); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);  
<sup>6</sup> EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [ ] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.)

In g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.01	0.001	0.17	0.18	*	*	0.00	0.00	0.000	0.000	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

<sup>4</sup> g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-28)

**BE IT FURTHER RESOLVED:** Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

**BE IT FURTHER RESOLVED:** Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.



California Environmental Protection Agency

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CUMMINS INC.

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**BE IT FURTHER RESOLVED:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971 (engine manufacturer diagnostic) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 27<sup>th</sup> day of December 2011.

*M. Hebert FOR AGM*

**Annette Hebert, Chief  
Mobile Source Operations Division**



500 Jackson Street  
MC 60601  
Columbus, IN 47201

Subject: Biodiesel Requirements

To Whom It May Concern:

**Requirements for Using Biodiesel Fuel in Cummins® Engines**

Cummins Inc. requires that all biodiesel fuel blends be comprised of petrodiesel meeting ASTM D975, and B100 meeting either ASTM D6751 or EN14214. Diesel fuel and biodiesel blends up to B5 **must** meet the specifications found in Table 1: Cummins Inc. Required Diesel Fuel Specifications in the Cummins Service Bulletin 3379001 – 18 (dated August 3, 2009). For biodiesel blends above B5 and up to B20, Cummins Inc. requires that the fuel meet the specifications outlined in ASTM D7467. These specifications are summarized in Table 3: Summary of ASTM D7467 Requirements for B6 to B30 Biodiesel Blends in the Cummins Service Bulletin 3379001 – 18 (dated August 3, 2009). Reference the official ASTM D7467 standard for more detailed requirements.

Biodiesel fuel can be blended with an acceptable diesel fuel up to 5 percent volume concentration (B5) for all Cummins® engines.

Biodiesel fuel can be blended with an acceptable diesel fuel up to a 20 percent volume concentration (B20) for the following Cummins® engines:

- ISB CM850, ISB CM2150\*, ISBe Euro 3, QSB3.3 Tier 3, QSB4.5 Tier 3, and QSB6.7 Tier 3.
- ISC/ISL CM850, ISC/ISL CM2150\*, ISCe/ISLe Euro 3, and QSC/QSL Tier 3.
- ISM CM870 and CM570, ISM CM875, ISM CM876, QSM11 Tier 3, QSM11 Marine, and QSM11 G-Drive.
- ISX CM870, ISX CM871, QSX15 Tier 3, and QSX15 G-Drive.

\*For ISB CM2150 and ISC/ISL CM2150 products as well as High Horsepower engines (displacements of 18L or higher) equipped with the Eliminator™ oil change extender system, Cummins Inc. requires oil sampling. See Cummins Service Bulletin 3379001 – 18 (dated August 3, 2009) for additional details.

For complete list of requirements regarding the use biodiesel, please reference the Cummins Service Bulletin 3379001 – 18 (dated August 3, 2009).

Best regards,

Kelly Basham  
Account Manager, Daimler Trucks North America  
Cummins, Inc

Service Bulletin Number	Date
3379001 -18	03-AUG-2009
Design Application	Market Application
Automotive	Automotive
Automotive	Fire Truck
Automotive	Military-Tactical
Automotive	Bus
Automotive	Recreational Vehicle
Industrial	Agriculture
Industrial	Construction
Industrial	Fire Pump
Industrial	Locomotive
Industrial	Power Unit
Industrial	Rail Car
Generator Unit	Generator Drive
Generator Unit	Generator Set
Marine Propulsion	Marine



\*Excerpts included from Cummins technical document that apply specifically to IFB# 200900523 and B20 biodiesel fuel information.

## Service Bulletin

# Fuels for Cummins® Engines

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## Introduction

This bulletin covers information about Fuels for Cummins® Engines. The purpose of this bulletin is to help the user understand proper fuel selection and problems associated with fuel.

## Diesel Fuel

Diesel fuel performs three major functions in a Cummins® diesel engine.

1. It supplies all the energy for the engine.
2. It cools and lubricates the precision parts of the engine's fuel pump and injectors.
3. It enables emissions controlled engines to meet regulated emissions levels.

### CAUTION

Engines equipped with diesel particulate filters must operate on ultra-low sulfur diesel (ULSD), with a maximum sulfur content of 15 ppm. Failure to do so will result in damage to the aftertreatment system.

## Cummins Inc. Required Diesel Fuel Specifications

This section presents the Cummins Inc. required fuel specifications.

Fuels meeting national and international specifications can be used if they observe the specifications listed in Table 1: Cummins Inc. Required Diesel Fuel Specifications. Cummins® engines will operate satisfactorily on fuels meeting all the properties listed in Table 1; however, fuels meeting **only** the required specifications will **not** give the same level of performance, efficiency, reliability, or maintenance costs as premium fuels.

that detect water in fuel will **not** function properly with water-emulsified diesel fuels.

Some water-emulsified diesel fuels use a surfactant in the emulsifier. Surfactants can strip the fuel tank and fuel lines of deposits, resulting in fuel filter plugging. Fuel filters **must** be monitored closely during the initial use of water-emulsified diesel fuels.

Water-emulsified diesel fuels can **not** remain static for more than a month in storage or in vehicle fuel tanks. Most water-emulsified diesel fuel storage facilities are required to have circulation pumps for daily or weekly agitation. Engines operating on water-emulsified diesel fuel **must** be operating for at least 15 minutes every 30 days to avoid fuel-water separation in the vehicle fuel tank and in the engine fuel system.

Cummins Inc. Engine Warranty - Cummins Inc. Engine Warranty covers failures that are a result of defects in material or factory workmanship. Engine damage, service issues, and/or performance issues determined by Cummins Inc. to be caused by the use of water-emulsified diesel fuel are **not** considered to be defects in material or workmanship and are **not** covered under Cummins Inc. engine warranty.

Some water-emulsified fuel suppliers provide a comprehensive warranty for fuel system failures caused by the use of water-emulsified diesel fuel. Customers are encouraged to contact the water-emulsified diesel fuel supplier to determine the warranty provisions.

#### Biodiesel Fuel

Cummins Inc. certifies its engines using the prescribed EPA and European Certification Fuels. Cummins Inc. does not certify engines on any other fuel. It is the user's responsibility to use the correct fuel as recommended by the manufacturer and allowed by EPA or other local regulatory agencies. In the United States, EPA allows only registered fuels and fuel additives to be entered into commerce. EPA has additional alternative fuel information at:

<http://www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm>

#### Biodiesel Terminology

- Biofuels - Fuels produced from renewable resources.
- Biodiesel - A fuel comprised of methyl or ethyl ester-based oxygenates of long chain fatty acids derived from the transesterification of vegetable oils, animal fats, and cooking oils. These fuels are commonly known as Fatty Acid Methyl Esters (FAME) or Fatty Acid Ethyl Esters (FAEE). Biodiesel properties are similar to those of diesel fuel, as opposed to gasoline or gaseous fuels, and thus are capable of being used in compression ignition engines.
- B100 - A fuel containing 100 percent biodiesel.
- Petrodiesel - Diesel fuel produced purely from petroleum. Petrodiesel can also be referred to as distillate diesel.
- Biodiesel Blend - A fuel comprised of a mixture of petrodiesel and B100 biodiesel. A biodiesel blend is typically designated by the percentage of biodiesel in the blend. For example: B5 is a fuel containing 95 percent petrodiesel and 5 percent B100.
- Rapeseed Methyl Ester (RME) diesel - Biodiesel derived from rapeseed oil. RME diesel is the most common biodiesel used in Europe.
- Soy Methyl Ester (SME or SOME) diesel - Biodiesel derived from soybean oil. SME

- diesel is the most common biodiesel used in the United States.
- BQ-9000 - The National Biodiesel Accreditation Program, which is called BQ-9000, is a cooperative and voluntary program for the accreditation of producers and marketers of biodiesel fuel. The program is a unique combination of the ASTM standard for biodiesel, ASTM D6751, and a quality systems program that includes storage, sampling, testing, blending, shipping, distribution, and fuel management practices.

With increased interest in reducing the use of petroleum distillate based fuels, many governments and regulating bodies encourage the use of biofuels, such as biodiesel.

Cummins Inc. test data on the operating effects of biodiesel fuels indicates that typically smoke, power, and fuel economy are all reduced. There are specifications for biodiesel issued in Europe under EN14214 and in North America under ASTM D6751. These specifications define **only** the biodiesel (B100) used as the blend component with diesel fuel. Specifications for biodiesel blends ranging from B6 to B20 can be found under ASTM D7467.

 **CAUTION** 

To successfully use biodiesel, it is imperative that the fuel be of high quality and meet or exceed the specifications outlined in this bulletin or engine damage will occur.

It is the responsibility of the user to verify/obtain the proper local, regional, or national exemptions required for the use of biodiesel in any emissions regulated Cummins® engine.

#### Warranty and the Use of Biodiesel Fuel in Cummins® Engines

Cummins Inc. Engine Warranty covers failures that are a result of defects in material or factory workmanship. Engine damage, service issues, and/or performance issues determined by Cummins Inc. to be caused by the use of biodiesel fuel **not** meeting the specifications outlined in this Service Bulletin are **not** considered to be defects in material or workmanship and are **not** covered under Cummins Inc. engine warranty.

#### Requirements for Using Biodiesel Fuel in Cummins® Engines

Cummins Inc. requires that all biodiesel fuel blends be comprised of petrodiesel meeting ASTM D975, and B100 meeting either ASTM D6751 or EN14214. Diesel fuel and biodiesel blends up to B5 **must** meet the specifications found in Table 1: Cummins Inc. Required Diesel Fuel Specifications. For biodiesel blends above B5 and up to B20, Cummins Inc. requires that the fuel meet the specifications outlined in ASTM D7467. These specifications are summarized in Table 3: Summary of ASTM D7467 Requirements for B6 to B30 Biodiesel Blends. Reference the official ASTM D7467 standard for more detailed requirements.

Biodiesel fuel can be blended with an acceptable diesel fuel up to 5 percent volume-concentration (B5) for all Cummins® engines.

Biodiesel fuel can be blended with an acceptable diesel fuel up to a 20 percent volume concentration (B20) for the following Cummins® engines:

ISB CM850, ISB CM2150\*, ISBe Euro 3, QSB3.3 Tier 3, QSB4.5 Tier 3, and QSB6.7 Tier 3.

ISC/ISL CM850, ISC/ISL CM2150\*, ISCe/ISLe Euro 3, and QSC/QSL Tier 3.

ISM CM870 and CM570, ISM CM875, ISM CM876, QSM11 Tier 3, QSM11 Marine, and QSM11 G-Drive.

ISX CM870, ISX CM871, QSX15 Tier 3, and QSX15 G-Drive.

The following High Horsepower engines produced after 01 January 2008:  
QSK19/23/38/45/50/60/78, K19/38/50, QST30, K2000E, and K1500E.

The following Cummins MerCruiser™ Diesel marine engines produced after 01 January 2007:  
B Series (including QSB), C Series (including QSC and QSL), and QSM11.

Cummins Inc. has the following engine specific requirements for engines running biodiesel blends above B5 and up to B20:

\* For ISB CM2150 and ISC/ISL CM2150 products as well as High Horsepower engines (displacements of 18L or higher) equipped with the Eliminator™ oil change extender system, Cummins Inc. requires oil sampling. See below for details.

\* For High Horsepower marine applications, Cummins Inc. requires additional fuel water separation capability. See below for more details.

\* For Cummins® Engines in Chrysler Dodge Ram™ trucks, biodiesel fuel can be blended with an acceptable diesel fuel up to a 20 percent volume concentration (B20) for municipal, government, and commercial fleets **only**. This applies to selected model year vehicles. Please consult Chrysler for specific requirements and approved vehicle models.

Customers choosing to run biodiesel blends above B5 and up to B20 **must** adhere to the following requirements from Cummins Inc.

**NOTE:** For North American markets, Cummins Inc. requires that the biodiesel fuel blend be purchased from a BQ-9000 Certified Marketer. The B100 biodiesel fuel used in the blend must be sourced from a BQ-9000 Accredited Producer. Certified Marketers and Producers can be found at the following website: <http://www.bq-9000.org>. For areas outside of North America, consult your local Cummins Inc. representative for applicable fuel quality standards.

### Oil Sampling

- Fuel dilution of lubricating oil has been observed with the operation of biodiesel under certain operating conditions. Fuel dilution monitoring can be accomplished by performing oil sampling. Fuel levels in lubricating oil **must not** exceed 5 percent. Additional information on oil contamination and oil sampling can be found in Cummins® Engine Oil Recommendations, Bulletin 3810340.
- For ISB CM2150 and ISC/ISL CM2150 products, end users are **required** to use oil sampling during the first 6 months of operation with biodiesel to monitor engine oil condition and fuel dilution of lubricating oil in order to determine if the oil change interval

needs to be modified. Consult a local Cummins® Authorized Repair Location for guidance in oil sampling.

- For High Horsepower engines equipped with the Eliminator™ oil filter option, oil sampling will be needed to determine the appropriate oil change interval. Oil samples should be taken every 250 hours of operation and analyzed according to the Cummins® Engine Oil Recommendations Bulletin. This process should be repeated for at least three oil change intervals to ensure consistent oil behavior.

### Fuel Water Separation

- Biodiesel has a natural affinity to water, and water accelerates microbial growth. Storage tanks **must** be equipped with a fuel water separator to make sure that water is stripped out before entering the vehicle tank. Make sure the vehicle and storage tanks are kept full to reduce the potential for condensation accumulating in the fuel tank.
- Due to the solvent nature of biodiesel, and the potential for “cleaning” of the vehicle fuel tank and lines, new fuel filters **must** be installed when switching to biodiesel on used engines. Fuel filters will need to be replaced at half the standard interval for the next two fuel filter changes.
- Cummins Inc. **requires** the use of a StrataPore™ fuel filter media, and strongly recommends using Cummins Filtration™ filters equipped with StrataPore™ media. This filter media removes water more efficiently than standard cellulosic filter media, which will **not** provide adequate fuel water separation capabilities. However, even StrataPore™ fuel filter media is not as effective in removing water from biodiesel as it is in removing water from petrodiesel. Therefore, preventing water from entering the fuel supply (vehicle or storage) remains very important.
- If StrataPore™ filter media is **not** available, a substitute synthetic filter media may be used which must provide 95 percent emulsified fuel water separation efficiency per SAE J1488. This test method **must** be run using B20 biodiesel, having an interfacial surface tension of 22 dyne/cm + or - 2 dyne/cm. The filter **must** meet this specification when run at the rated flow of the engine platform's fuel system. Fuel filter gaskets **must** also be compatible with B20 biodiesel blends, with performance equal to or greater than what is outlined in the Cummins Filtration™ Engineering Standard FES1544 - Seals, Static, Rubber (Supplier Requirements, Fuel Applications).
- For all High Horsepower marine applications, a centrifuge filtration system is required to safeguard against water contamination. A centrifuge is recommended for all commercial marine applications. Water intrusion is common in vessel fuel storage tanks. Vessels may have multiple fuel storage tanks depending on type of service. Typically, one or two of the storage tanks are dedicated for engine supply. Fuel is transferred from the storage tanks to one or more day tanks. All engines are fueled from the day tanks. The centrifuge should be installed between the storage tanks and day tanks and should circulate fuel continuously. The target deliverable fuel quality of a centrifuge should meet or exceed the specifications outlined in ISO 4406: 18/16/13 (reference the “Fuel Cleanliness” section for more detail) and should have a maximum of 200 ppm dissolved or emulsified water, with no free water permitted.
- Cummins Inc. does **not** endorse specific suppliers of centrifuges, however Alfa Laval and Westfalla are two known manufacturers of marine filtration devices. The Alfa Laval models are MAB 103, 104, and 206. Models MMB 304 and 305 are self cleaning units. The smallest version cleans 1135 l/hr (300 gal/hr), while larger versions can have flow rates over 10,000 l/hr (2,600 gal/hr). Most of these centrifuges clean fuel to the 3 to 5 micron range, but it takes up to 13 tank cycles to achieve this cleanliness. Some

Westfalla models are the OTC 2/3-02-137 and OTC 2/3-03-107. They range from 500 l/hr (130 gal/hr) to 800 l/hr (215 gal/hr). These also clean fuel to the 3 to 5 micron range, but still require cycling the fuel in the tank up to 13 times. Refer to the manufacturer's product specifications and installation instructions.

- Cummins Filtration™ Fuel Pro®, Diesel Pro®, Industrial Pro™, and Sea Pro®, products offered by Cummins Filtration/Davco Technology LLC, can be used to provide remote mounted additional fuel filtration efficiency, with integrated fuel pre-heaters. Consult a local Cummins® Authorized Repair Location for guidance in fuel filter selection and installation.

### Biodiesel Fuel Storage

- Use biodiesel fuel within six months of its manufacture. Biodiesel has poor oxidation stability, which can result in long term storage problems. For this reason, Cummins Inc. does **not** recommend using biodiesel for low use applications, such as standby power, recreational marine, or seasonal applications. Consult your fuel supplier for oxidation stability additives.
- The poor oxidation stability qualities of biodiesel can accelerate fuel oxidation in the fuel system, especially at increased ambient temperatures.

## ▲ CAUTION ▲

Avoid storing equipment with biodiesel blends in the fuel system for more than three months or fuel system damage can occur.

- If biodiesel is used for seasonal applications, the fuel system **must** be purged before storage by running the engine on pure diesel fuel for a minimum of 30 minutes.
- Care **must** also be taken when storing biodiesel in bulk storage tanks. All storage and handling systems **must** be properly cleaned and maintained. Steps must be taken to minimize moisture and microbial growth in storage tanks. Consult your fuel supplier for assistance in storing and handling biodiesel.

### Energy Content

- B100 biodiesel provides approximately 7% to 10% less energy per gallon of fuel when compared to conventional diesel fuels. Operation with B20 biodiesel blends can potentially result in a slight decrease in fuel economy and/or power, depending on the application. To avoid engine problems when the engine is converted back to 100 percent petrodiesel, do **not** change the engine rating to compensate for the potential power loss when operated with biodiesel fuels.

### Materials Compatibility

- The engines listed in this bulletin are compatible with biodiesel blends up to B20. However, the following **must** be taken into account:
- Natural rubber, butyl rubber, and some types of nitrile rubber (depending on chemical composition, construction, and application) may be particularly susceptible to degradation. Also, copper, bronze, brass, tin, lead, and zinc can cause deposit

formations. The use of these materials and coatings should be avoided for vehicle fuel tanks and fuel lines. Fuel fittings and connectors are acceptable due to the small surface area in contact with the fuel.



CAUTION



Contact your vehicle manufacturer to determine if any of the OEM supplied components are at risk with biodiesel in order to prevent engine damage.

### Low Temperature Performance

- Biodiesel fuel properties change at low ambient temperatures, which can pose problems for both storage and operation. Precautions can be necessary at low ambient temperatures, such as storing the fuel in a heated building or a heated storage tank, or using cold temperature additives.
- The fuel system can require heated fuel lines, filters, and tanks. Filters can plug and fuel in the tank can solidify at low ambient temperatures if precautions are **not** taken. A fuel heater is recommended for ambient temperatures below -5 °C [23 °F]. Consult your fuel and additive supplier for assistance in attaining proper cloud point fuel.

### Microbial Growth

- Biodiesel fuel is an excellent medium for microbial growth. Microbes cause fuel system corrosion and premature filter plugging. The effectiveness of all commercially available conventional anti-microbial additives, when used in biodiesel, is **not** known. Consult your fuel and additive supplier for assistance.

It is strongly recommended that customers running biodiesel blends of B5 or below follow the above precautions as well.

### Biodiesel Additives

1. Cummins Inc. approves the use of Cummins Filtration™ Microbicide for use in biodiesel blends. Product details can be found in the “Additives” section of this Service Bulletin.
2. Cummins Inc. approves the use of Cummins Filtration™ Asphaltene Conditioner Base for biodiesel blends. Product details can be found in the “Additives” section of this Service Bulletin.
3. Cummins Filtration™ Biodiesel Winter Conditioner can be used to improve the pour point and cold filter plugging point of biodiesel blend, in addition to preventing ice formation in wet fuels during cold storage. Cummins Filtration™ Biodiesel Winter Conditioner is the **only** biodiesel fuel additive approved by Cummins Inc. for winter performance improvements. Contact your local Cummins® Authorized Repair Location for product details.

Table 3: Summary of ASTM D7467 Requirements for B6 to B20 Biodiesel Blends		
Performance		

Item	Characteristics	Requirements		Test Procedure
		D1 Blends	D2 Blends	
1	Flash Point, °C minimum	38	52	ASTM D93
2	Water and sediment volume %, maximum	0.05	0.05	ASTM D2709
3	Physical Distillation, T90 °C, maximum	343	343	ASTM D86
4	Kinematic Viscosity, cSt at 40 °C	1.3 - 4.1	1.9 - 4.1	ASTM D445
5	Ash, mass %, maximum	0.01	0.01	ASTM D482
6	Sulfur, st %, maximum	Per regulation (reference Table 1)	Per regulation (reference Table 1)	ASTM D5453, D2622, or D129, depending on sulfur content
7	Copper strip corrosion rating, maximum	Number 3	Number 3	ASTM D130
8	Cetane Number, minimum <sup>1</sup>	40	40	ASTM D613
9	Cloud Point <sup>2</sup>	Per foot note	Per foot note	ASTM D2500, D4539, D6371
10	Ramsbottom carbon residue on 10% distillation residue, wt%, maximum	0.15	0.35	ASTM D524
11	Lubricity, HFRR at 60 °C, micron, maximum	520	520	ASTM D6079
12	Acid number, mgKOH/g, maximum	0.3	0.3	ASTM D664
13	Biodiesel content % (V/V)	6-20	6-20	D7371
13	Oxidation stability, induction time, hours, minimum	6	6	EN14112 (Rancimat)
14	One of the following <b>must</b> be met:			
(a)	Cetane index, minimum	40	40	D976-80
(b)	Aromaticity, %vol, maximum	35	35	D1319-03
<sup>1</sup> Low ambient temperatures, as well as operation at high altitudes may require the use of fuels with higher cetane ratings.				
<sup>2</sup> The maximum cloud point temperature shall be equal to or lower than the tenth percentile minimum ambient temperature in the geographical area and seasonal time frame as defined by ASTM D975.				

## Marine Distillate Oils

TAB 7

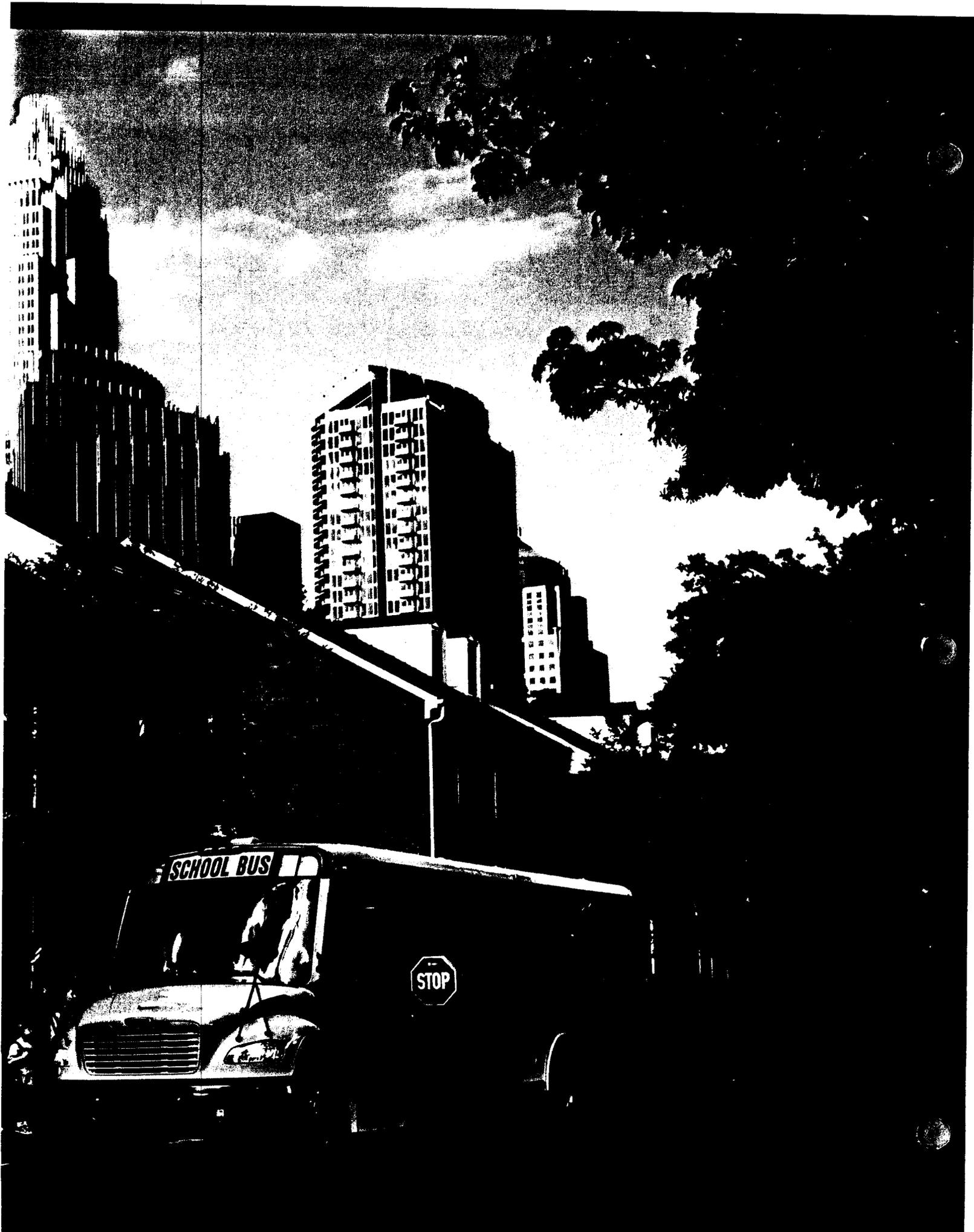
Saf-T-Liner<sup>®</sup>

Thomas  
BUILT BUSES

C2

SCHOOL BUS

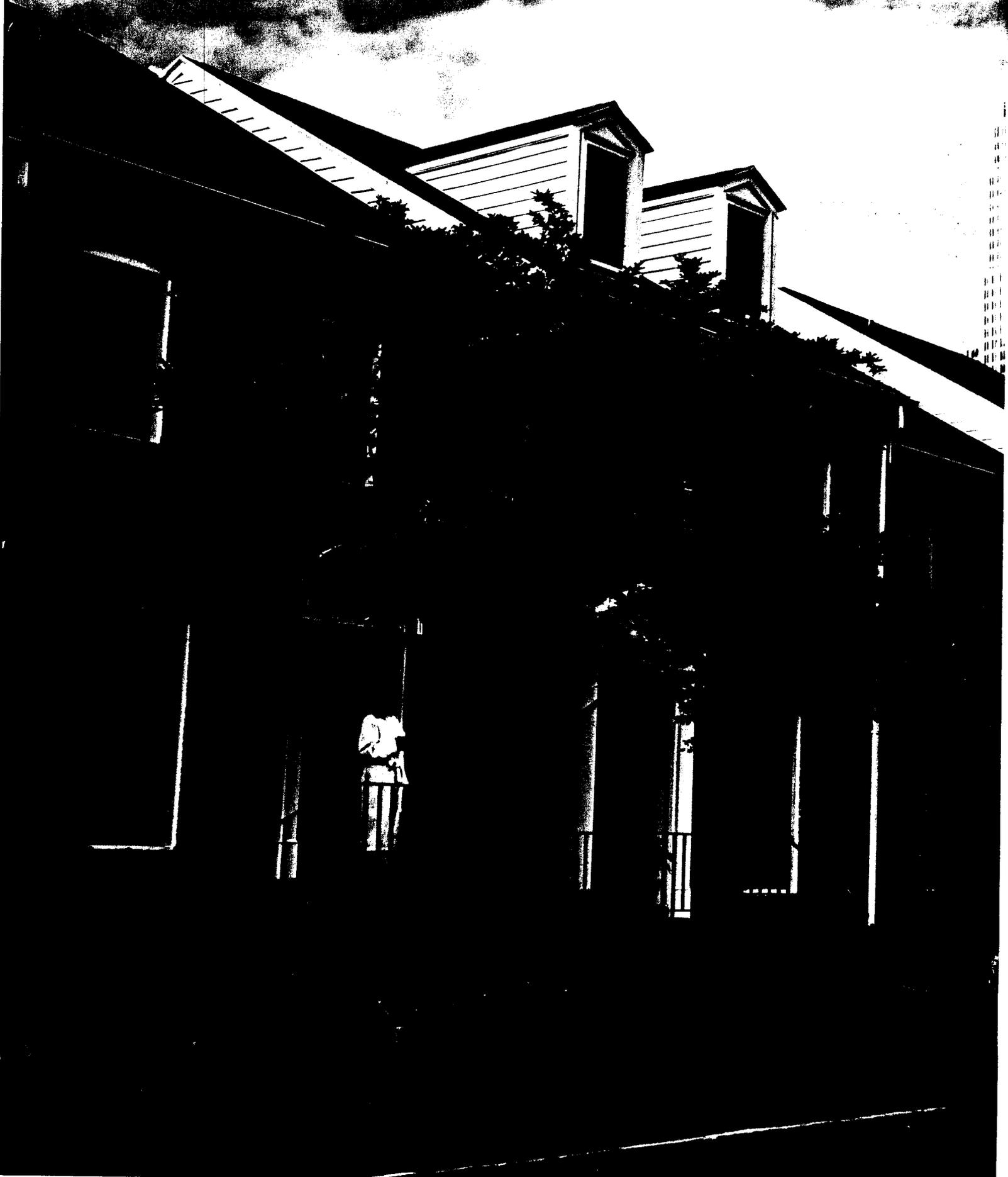




SCHOOL BUS

STOP

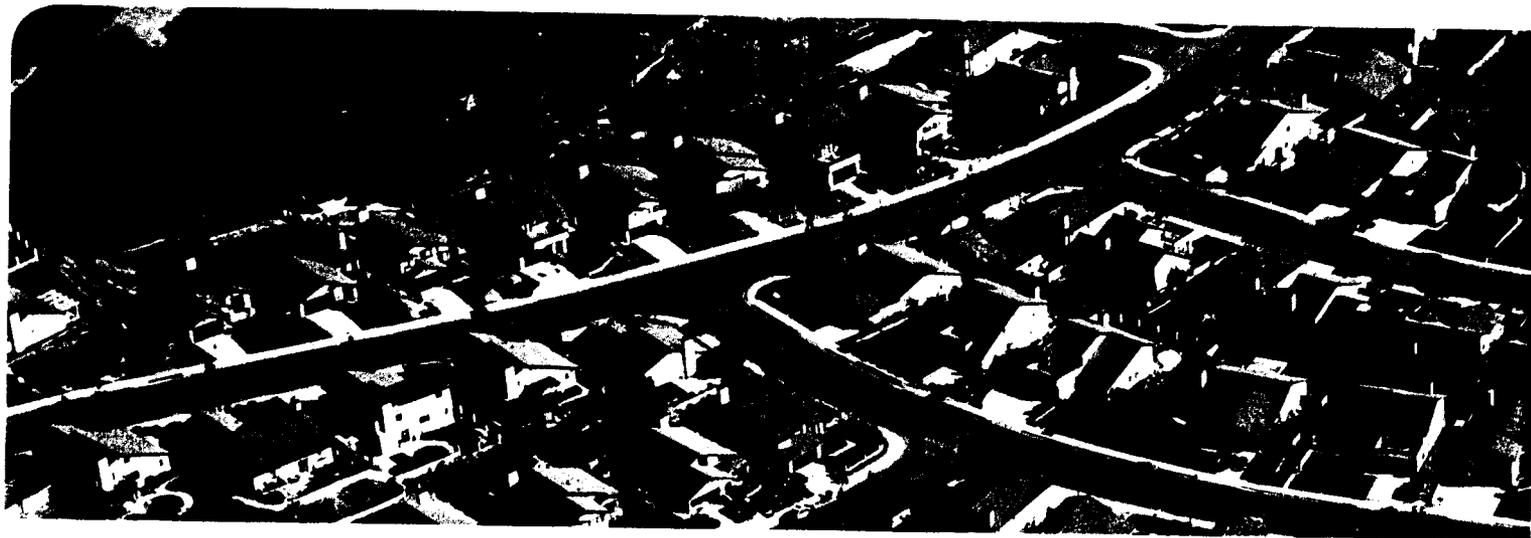
IT'S THE PERFECT START TO YOUR MORNING



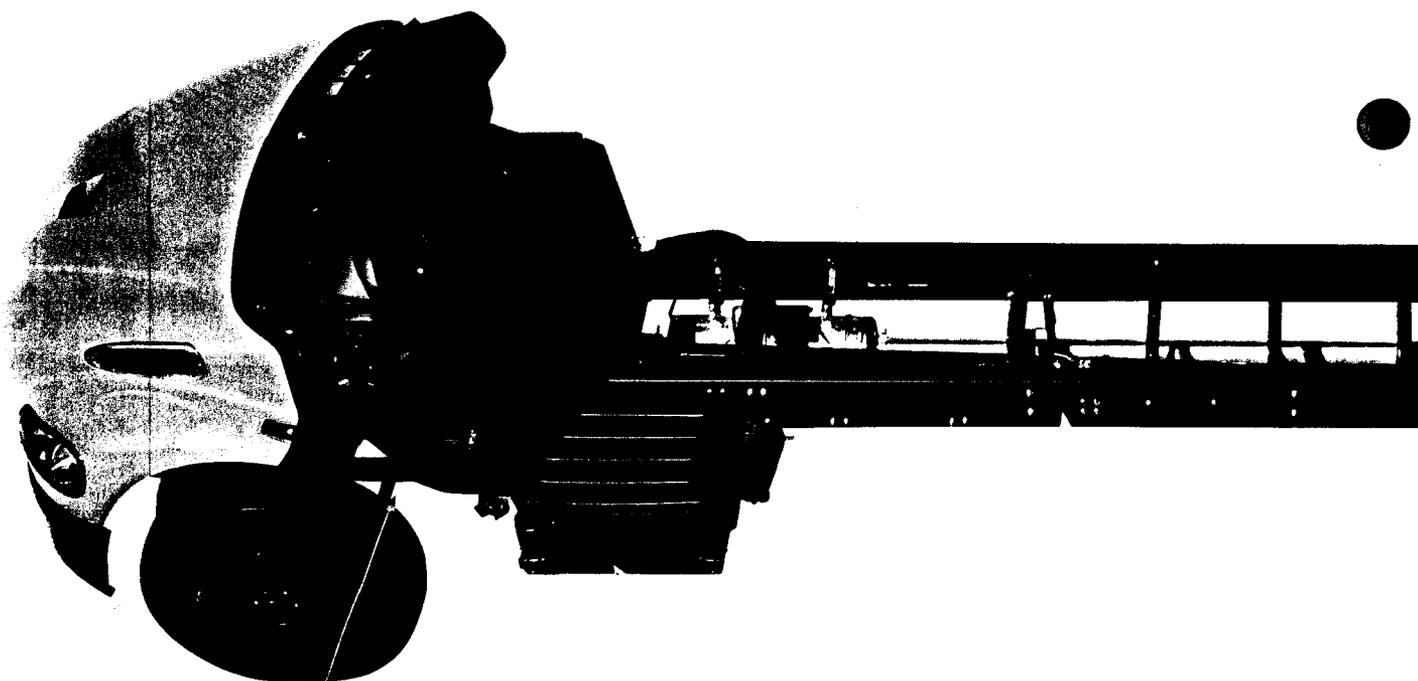




When the first Saf-T-Liner® C2 was introduced, it revolutionized the school bus industry. But when you're an innovative company, you're never really finished. In fact, it's just the beginning. To push ourselves even further, we met with transportation directors, school board members and drivers—the people who use our buses everyday. We asked questions and took notes. Then we reviewed the ride, the visibility and the ergonomics. When we were done, a more advanced C2 was born. A bus made for the children of today, tomorrow and the day after. And while it may bear the Thomas Built name, we can't take full credit—it was designed by all of us.



WIDESPREAD INNOVATION TO PUT A NEW DESIGN ON OLD TECHNOLOGY  
ADVANCED AS THE REST OF THE SCHOOL BUS. EVERY COMPONENT

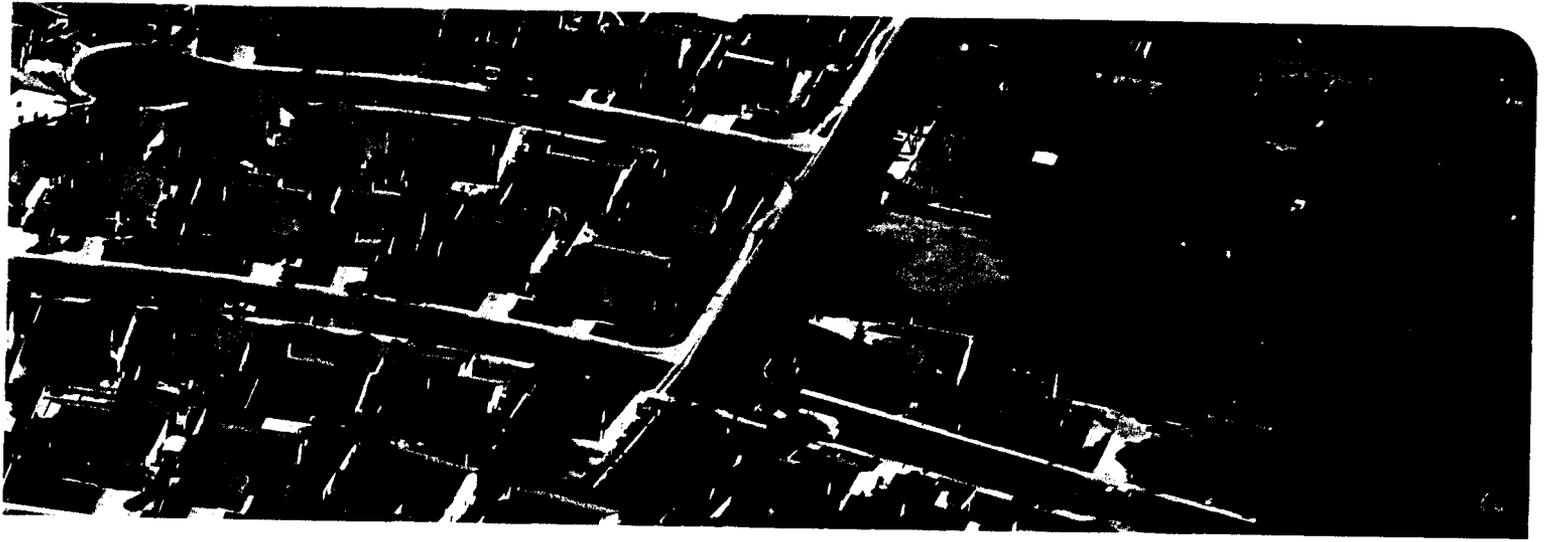


Tight wheel cut of up to 55-degrees for exceptional maneuverability.

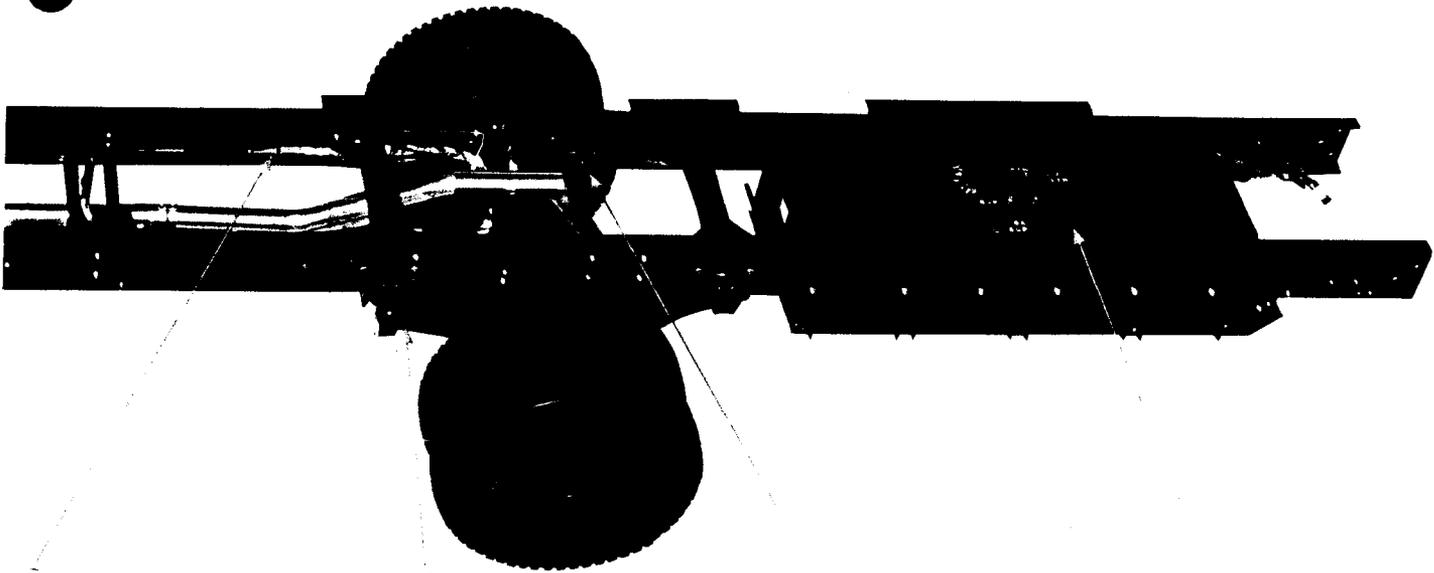
Tapered-leaf "Comfort Trac" front suspension offers a more comfortable ride with greater control and responsiveness. Maintenance-free bushings and replaceable wear pads improve handling in the service bay.

Chassis-mounted battery tray features a pull-out tray with ball-bearing rollers allowing for easy access and maintenance.

Chassis frame is 5/16" x 3" x 10-1/8". Standard yield strength is 50,000 psi with a 120,000 psi option.



TECHNOLOGY DOESN'T MAKE SENSE. THAT'S WHY THIS CHASSIS IS JUST AS OPTIMIZED FOR MAXIMUM PERFORMANCE AND MINIMUM DOWNTIME.

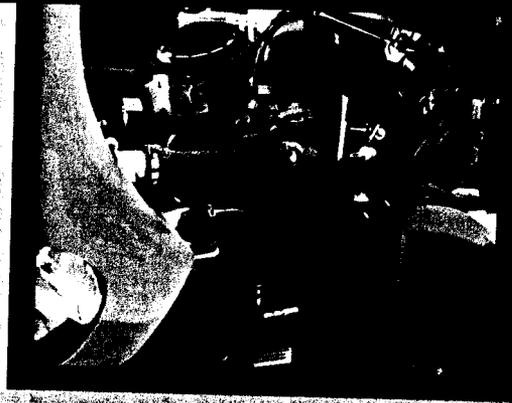


Body and chassis share an integrated multiplex wiring network for low flexibility, reliability and quick diagnostics. This multiplex system allows smart switches to be easily relocated to suit drivers' preferences.

Variable rate "Comfort Trac" suspension with maintenance-free bushings offer consistent ride quality loaded or unloaded.

Optional rear-air suspension is available for improved ride and comfort for passengers and drivers.

Fuel tank is mounted between chassis rails and the under-ride protection plate provides optimum weight distribution and enhanced protection.



The tilt-hood allows technicians to easily check fluids and perform routine maintenance. This innovation makes engine access quick and easy.

### ENGINE ACCESS

### EMERGENCY EXIT

### WINDOWS

Each window is enhanced with a tight seal and comes with standard black frames. Optional tinted glass is also available. We've made servicing effortless with easy-to-access components that can be replaced individually instead of replacing the entire window.



Our AGZ entrance door is stronger than ever with robotically-welded aluminum door leaf and a four-piece bonded door glass. And it's available with electric or air-operated actuators. Plus, our A-pillar and quarter windows promote better visibility.

### PASSENGER DOOR

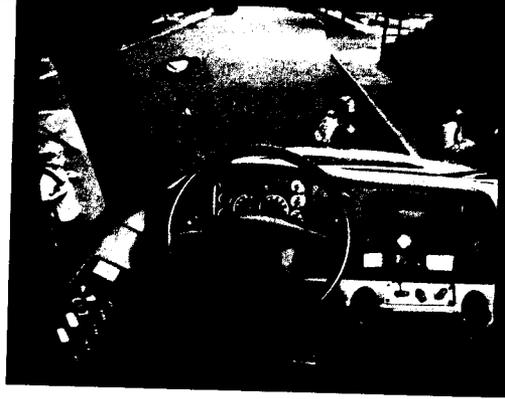
### MIRRORS

New optional mirror brackets with intuitive positioning improve sightlines, reduce driver fatigue, and increase visibility.



The more your drivers can see,  
the more confident they feel.  
Our bonded and curved windshield  
is the largest in its class with a  
2,900 square-inch panoramic view  
providing maximum visibility.

### LOADING ZONE VISIBILITY



### ERGONOMIC FLEXIBILITY

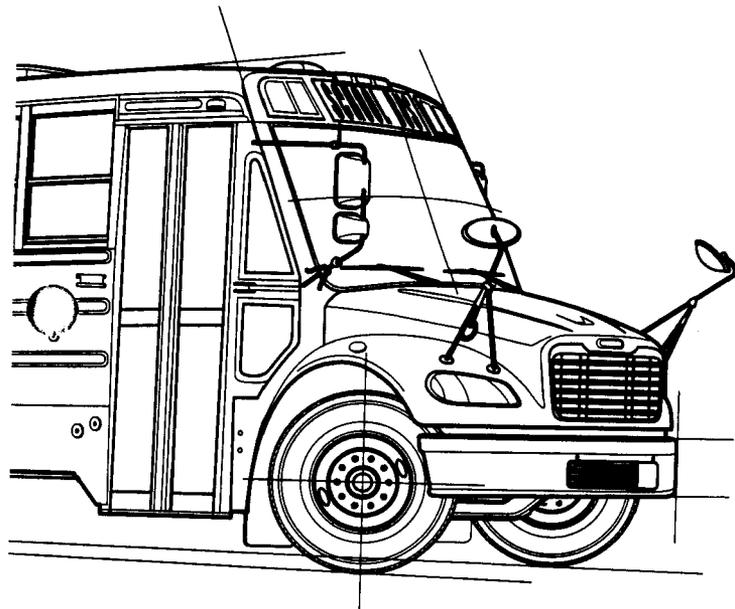
Drivers come in all shapes  
and sizes. That's why we  
designed flexibility into the C2  
driver environment. Some of the  
ergonomic innovations include  
easy-to-read gauges, additional  
legroom, optional adjustable  
pedals and an optional tilt and  
telescoping steering wheel. Plus,  
drivers will enjoy improved  
temperature controls.



Driver is 6 feet 8 inches



Driver is 4 feet 11 inches



### COCKPIT

To keep drivers happy and better equipped  
to do their job, we've added a sloped hood,  
created a non-reflective instrument panel,  
improved the HVAC system, created  
more storage options and redesigned the  
LED backlit gauges. An optional under  
dash storage bin is also available. The  
multiplex wiring system allows for switch  
placement to meet driver preferences.

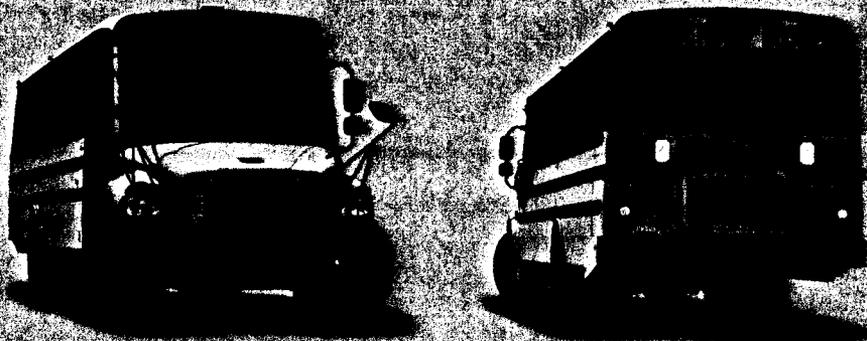


## Interstate Transportation Equipment, Inc.

2511 Trotter Road, P.O. Box 9163  
Columbia, S.C. 29290

PHONE (800) 726-0779 / (803) 776-5041

FAX (803) 776-3527



### THE THOMAS ADVANTAGE

Since 1936, Thomas Built has focused on delivering the smartest and most innovative buses in North America. And with a complete line of A, C and D buses for all applications, Thomas Built has solidified its place as the leading manufacturer of school buses. Each bus comes with thorough market expertise, an extensive dealer network and all the customer support, service and parts availability you need. To learn more or find a local dealer, visit [www.thomasbus.com](http://www.thomasbus.com).

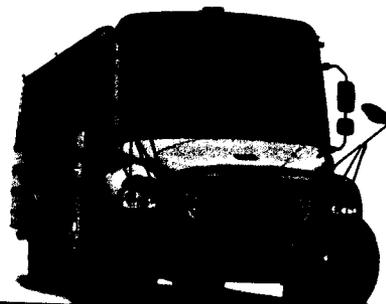


SCR

Selective  
Catalytic  
Reduction

# ROAD TESTED. INDUSTRY APPROVED.

5-9% fuel economy advantage  
Industry-proven technology  
Reliable engine architecture

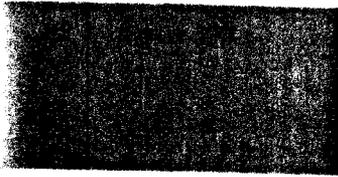


By **2010**

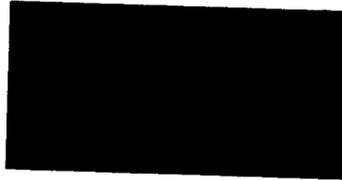
the Environmental Protection Agency will require all medium- and heavy-duty vehicles to run cleaner. A lot cleaner. Nitrogen Oxide (NOx) exhaust emissions must be reduced to 0.2g/bhp-hr, an **83% reduction** from 2007 levels.

**Thomas**  
BUILT BUSES

**STANDARD EXTERIOR COLORS**



TBB-CHROME YELLOW  
001



TBB-EXTERIOR TRIM BLACK  
002

**STANDARD INTERIOR COLOR**

TBB-LIGHT GREY SATIN  
INTERIOR PANELS

**N/A OPTIONAL INTERIOR COLORS**

N/A

TBB-LIGHT BLUE SATIN  
INTERIOR PANELS

N/A

TBB-LIGHT GREEN SATIN  
INTERIOR PANELS



TBB-BEIGE SATIN  
INTERIOR PANELS

**OPTIONAL EXTERIOR COLORS**



TBB-LIGHT BLUE 003



TBB-RED 010



TBB-MEDIUM GREEN 017



TBB-WIND BLUE 004



TBB-DARK RED 011



TBB-DARK GREEN 018



TBB-MEDIUM BLUE 005

TBB-BLUETONE WHITE 012



TBB-SHENANDOAH GREEN 019

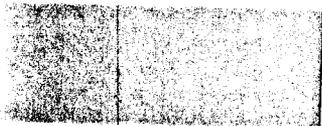


TBB-DARK BLUE 006

TBB-WHITE 013



TBB-GOLD 020



TBB-LIGHT GREY 007

TBB-OXFORD WHITE 014



TBB-TAN 021



TBB-MEDIUM GRAY 008

TBB-CREAM 015



TBB-MINN. ORANGE 022



TBB-FLAME RED 009



TBB-LIGHT GREEN 016

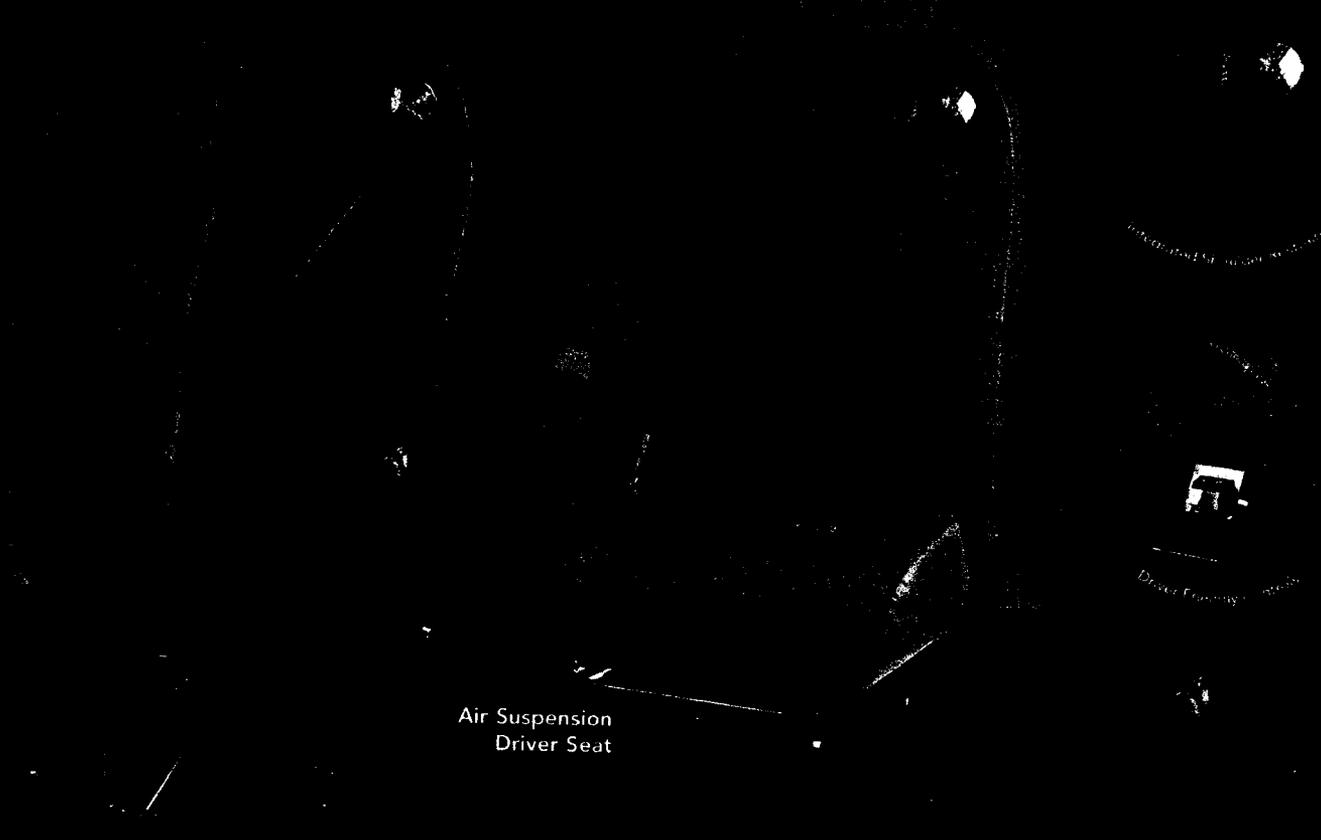


TBB-OMAHA ORANGE 023

Colors on this selector are representations. Actual colors on the finished vehicle may vary.

# NATIONAL SEATING

## INTEGRATED-BELT-TO-SEAT Bus Driver Seat



Air Suspension  
Driver Seat

Pedestal  
Driver Seat







TAB 8

Blank