

# *LBS Highways and Byways*

## **Leonard Bus Sales, Inc.**



### **The International Truck and Engine Corporation Bus Vehicle Center and Its Subsidiary, American Transportation Corporation, Form A New Brand Identity**

#### **School Bus Products Now Under One Banner: IC Corporation**

CONWAY, Ark., (May 9, 2002) – The International Truck and Engine Corporation Bus Vehicle Center and its subsidiary American Transportation Corporation, have joined forces to create one strong brand identity and company for their line of integrated products, the conventional (CE), rear-engine (RE) and front-engine (FE) school buses. The new IC Corporation and IC brand was unveiled to dealers of the integrated school bus products at the annual bus dealer meeting, April 26, 2002, on Kiawah Island, S.C.



International Truck and Engine Corporation has long been a leading manufacturer of school bus chassis that have set a benchmark in the industry, and with its subsidiary IC Corporation, the company's share of school bus bodies has nearly doubled. IC Corporation merges the history of these quality products and services and will provide school bus customers a focused dealer network under the IC brand name.

According to Tom Cellitti, vice president and general manager, Bus Vehicle Center, International Truck and Engine Corporation, work toward creating this unified identity began in 1995 with the full move toward school bus body manufacturing. "The launch of the IC brand reflects our focus on the school bus customer," explained Cellitti. "By providing integrated products that combine the chassis and body, we can deliver the best ownership value, support and experience to their drivers and technicians day in and day out, year after year."

Behind the new brand, the new IC logo – a yellow and black shield – represents everything customers have come to expect from International, and now the IC brand; products that enrich the owner, excite the driver, delight the maintainer and protect the passenger.

IC Corporation, the nation's largest integrated school bus manufacturer, is a wholly owned subsidiary of International Truck and Engine Corporation. International produces school bus chassis, mid-range diesel engines, medium trucks, heavy trucks, severe service vehicles, and is a provider of parts and service sold under the International brand. Both IC and International are subsidiaries of Navistar International Corporation (NYSE: NAV). Additional information can be found on the company's web site at [www.internationaldelivers.com](http://www.internationaldelivers.com)

#### **International Buses To Sponsor NYAPT Dinner**

International, and its New York State bus dealers will again this year sponsor the traditional NYAPT Monday night dinner. For 2002 the International dinner theme will bring together NYAPT and International with "AMERICA STANDING TALL". This gala July event honoring America will feature refreshments, food, dancing and many surprises. An event not to be missed while at the conference!

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## Support Vehicle Placed In Service

Leonard Bus Sales and Regional International are pleased to announce the deployment of a jointly operated Customer Support Vehicle based at Regional's Henrietta location. This multipurpose vehicle will be used to better service school bus customers in Western New York State by providing on-site service and parts support when necessary. This addition is the latest step in a continuous effort to provide "best in class" support to student transportation providers throughout the state. For all of your International bus service or warranty needs, contact Leonard Bus Sales at (800) 554-4504.



## Take the Air Brake System True or False Test

Modern air brake systems are very complex and have many inter-related components, which is why there are many misconceptions about air brake codes and air brake linings. See how much you know by taking the air brake true or false test.

1. Original Equipment Manufacturers (OEM)'s and aftermarket suppliers must conform and certify compliance to the Federal Motor Vehicle Safety Standards for brakes (FMVSS-121) by the U.S. Department of Transportation (DOT). If your company's products comply, DOT will grant a stamp of approval saying a minimum amount of required friction is present.  
True or False?

**FALSE.** Even though OEMs must certify their brake lining to FMVSS-121 rules, there is no such mandate for aftermarket suppliers. DOT does not regulate the aftermarket brake lining industry.

2. Lining edge codes are required to be on the lining as certification of DOT compliance.  
True or False?

**FALSE.** Lining edge codes contain information about the manufacturer, the material mix and the DOT friction rating, but they are not evidence of DOT compliance. Lining edge codes are not required by DOT, however, lining edge codes are required by the state of New York.

3. Lining edge codes provide a good indication of material hardness and wear characteristics.  
True or False?

**FALSE.** Lining edge codes are not an indicator of hardness or wear. What they will tell you is who made the material, the material mix number and coefficient of friction whether that is cold or hot.

4. Lining edge codes range from "D" to "G" and are specific friction coefficient values. Different manufacturer's brake lining can be mixed, but only if the friction codes are the same.  
True or False?

Again, this is all **FALSE.** The friction value is a range, not a specific. The edge code letter tells you how quickly the bus will stop based on tests by DOT, with "I" meaning the bus has not stopped and is now impacting an object. This friction range can make a lot of difference if you're thinking of mixing different manufacturers' brake linings and brake blocks. For example, for the code "E", you would have a range between .25 to .35. For "F", it's .35 to .45, for "G" it's .45 to .55. Let's say you have a block that has a .35 rating, which is coded "E" and you want to put it with a lining that is also an "E". However, this lining was tested at .25. If you mix the two together, you'll end up with a brake imbalance.

In summary, you should trust the products that have been certified by DOT, understand the codes and what they mean and stick with one manufacturer so you have the right codes and values across the board. Don't cut costs when it comes to school bus brakes because children are depending on you for a safe ride home.

## Leonard Bus Sponsors NYAPT Roadeo

Leonard Bus Sales, in an ongoing commitment to support the New York Association for Pupil Transportation, will supply the buses for the Drivers Roadeo during the July conference. Leonard Bus Sales will supply 5 International model ICs and 4 FEs for the drivers competition. The 9 buses will be accompanied by Leonard Bus and International support staff. "Our customers deserve and will re-

ceive our support for these very important events", said Mike Leonard, President of Leonard Bus Sales. Mr. Leonard advises that again this year LBS will also be supplying the Roadeo officials with the distinctive and popular "officials" shirts. For more information about Leonard Bus Sales, Inc., please visit [www.leonardbus.com](http://www.leonardbus.com).

## De-Icing Materials Used On Roads Can Cause Havoc With Your Brakes

Driving through snow and ice is one of the most difficult weather situations a bus driver can face. While de-icing materials have made school bus routes easier to manage, the corrosive compounds used in these materials are slowly wreaking havoc on hydraulic ABS disc brake rotors.

To prevent this damage, corrosive resistant disc brake rotors are now available from the parts department of your IC Corporation or International dealership. These coated disc

brake rotors are interchangeable with non-coated rotors and use the same service procedures. However, you must change the axle set when replacing the rotors with coated rotors, do not mix old and new rotors on the same axle.

Part information: Disc brake rotor from ABS, coated, five-hole, 6.75-inch bolt circle, use part number 2508137C1. Front disc brake rotor for ABS, coated, 10-hole, 7.25-inch bolt circle, use part number 2508139C1.



## Helpful Hints for Air Filter Up-Keep

It's important to take proper care of the air filtration system to maximize the performance of the diesel engine in your school bus. International and LBS offer the following tips to help maintain the air filter for optimal performance.

### Care of the Air Filtration System:

1. Do not wash or use compressed air to clean paper air filters. Water, cleaning products, or air pressure can damage the filter and result in the harmful condition of unfiltered air entering the engine.
2. Use of a filter-minder is the best way to determine the condition of an air filter. If your bus is not equipped with an air filter-minder, you may add one. They are available at International or IC Corporation dealerships.
3. If the air filter appears to be dirty or if the air filter minder is in the

red, replace the air filter.

### Changing the Air Filters:

Any dirt that is caught by the air filter can restrict the flow of air into the engine reducing performance, making it necessary to perform unscheduled maintenance. Even when clean and new, air filters naturally restrict some flow of intake air. In fact, if no restriction is measured by the filter minder in the intake system, then the filter is not sealing, and there is a problem. As the filters trap more dirt, the air intake restriction increases. Air filters will work effectively up to the point when maximum restriction is reached. This maximum air filter restriction is greater than zero but less than 25 inches of water vacuum. Use the filter-minder, which records maximum restriction recorded by the engine since the last reset, to measure vacuum. If a reading is outside this range, this indicates that the filter

must be changed. When changing an air filter, keep the following points in mind:

1. Always use the proper filter for your bus. Even undersizing just slightly will allow dirt into the engine where it can damage the engine components. To ensure the proper fit of the air filter, apply a light film of silicone grease to the bead on each end of the filter. Install the filter and lid and then tighten. Then remove the lid and inspect the grease film. If the film is evenly distributed, then the air filter is sealing properly. If you see a gap in the grease, make sure the filter is tall enough and you are using the proper filter for your application.
2. Tighten the nuts to the specified torque value when installing a new air filter. Loose nuts will prevent the filter from sealing adequately.

## Product Support: A Necessity Not A Luxury

The ability of a supplier to succeed in today's marketplace is dependent on the ability to fully support the products they sell. In the student transportation industry this is more evident today than ever before. "Parts and service product support is not a luxury, it's a necessity," says Mike Leonard, President of Leonard Bus Sales. "If we don't support the products we sell we won't be successful".

Aside from the products themselves, one of the major strengths of the International product line is the unparalleled abil-

ity to offer a comprehensive dealer support network. The International dealer system in New York State includes eighteen locations in the upstate area, and offers the widest network of parts and service locations of any supplier in the region (see map insert).

"When we looked at the International bus support network, we could see that it fit perfectly with our philosophy of giving the customer the total support they deserve", said Mike Leonard. "Customer sup-

port has always been our trademark, and we knew that we could not sacrifice this part of our business. Once we received the personal commitments of all of the International dealers in our new trade area to support our International bus customers, we knew that we would be able to maintain our commitment to total product support". For more information on how the International support system can benefit you, contact your LBS sales representative or our main office at (800) 554-4504.



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"Depended Upon Since 1965"

**We're on the Web!**  
**[www.leonardbus.com](http://www.leonardbus.com)**



## Information Just a Click Away!

*The information highway  
is right at your door!*

Valuable information from Leonard Bus Sales and its major suppliers is available right at your fingertips. Visit the websites of:

Leonard Bus Sales, Inc.  
**[www.leonardbus.com](http://www.leonardbus.com)**

Girardin Minibus  
**[www.girardin.com](http://www.girardin.com)**

International Truck and Engine Corp.  
**[www.internationaldelivers.com](http://www.internationaldelivers.com)**

Each of these sites offers interesting information along with maintenance and training tips and current bus industry news.

**Log on today!!**

## Calendar of Events



### Independence Day

July 4th  
LBS Closed

### NYAPT Conference

July 13 - 17 Holiday Inn Turf, Albany

### NYS Head Mechanics Summer Seminar

July 25 Holiday Inn, Liverpool

### D.O.T. Conference

October 16 - 18 Holiday Inn Turf, Albany

### NYSSBA Conference

October 18 - 20 Marriott Marquis, New York, NY

### NYSSBA Conference

October 24 - 27 Oncenter, Syracuse

### NAPT Conference

November 3 - 7 Greensboro Coliseum,  
Greensboro, NC