



IC Corporation

751 South Harkrider, Conway, Ar 72302

A SUBSIDIARY OF INTERNATIONAL
TRUCK AND ENGINE CORPORATION

SAFETY RECALL 05508

August 2005

Dear IC Corporation Customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. IC Corporation has decided that a defect which relates to motor vehicle safety exists in RE School Bus and RE Commercial Bus models built between 01-28-2003 and 03-09-2005. The vehicle identified on the enclosed green card fits this description and our records show that you own this vehicle. Federal regulations require that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

REASON FOR THIS RECALL

Excessive suspension travel may cause the u-joint straps or strap bolts on either end of the driveshaft to fail as a result of the high working angle.

RISK TO MOTOR VEHICLE SAFETY

Failure of the u-joint straps will cause part or all of the driveshaft to fall off the bus. This may result in **property damage, personal injury or death.**

ACTION YOU SHOULD TAKE

1. **Our records show that you are the owner** of the vehicle identified on the enclosed card. **If you are not the owner**, please read paragraph number 6.
2. If you would like your IC dealer to make this inspection and repair for you at no cost, **please contact your local IC dealer**. To have your vehicle repaired, provide your dealer with your green recall card and schedule an appointment. Your dealer will order your parts based on the bus VIN or VINs.

If you prefer to inspect and repair the vehicle yourself, the repair instructions are outlined in the "Inspection and Repair Procedure" section below. Instructions for all five variations of the recall instructions are provided in this letter, but remember, the variation required is VIN specific. To order parts, fill out and return the enclosed green recall card with box # 8 checked and our Compliance Department will have the parts shipped directly to you at no charge. Please verify that your shipping address is correct. A Post Office Box (P.O. Box) number for shipping is not acceptable. We must have a street or road address. You may also obtain these parts by faxing a request to 1-

501-505-2433 or emailing to Kathy.anders@ic-corp.com. If you have multiple VINs that fall within this recall, a fax is the preferred method. The last eight characters of the VIN of each unit to be repaired must be included.

3. IC dealers will have instructions to make the repair by **08/05/2005**. The repair will be performed without charge to you and will take between approximately 45 and 70 minutes, depending on the variation of the repair required for your VIN. Have your dealer verify and correct your address, if necessary.
4. If the **vehicle will not be corrected or cannot be corrected**, please mark on the enclosed card under "CHECK ONE" the box, which best describes why the vehicle will not be repaired, and return the postage-prepaid card to us.
5. **In the event you do not own the vehicle** described on the card, please complete the card, fill in the new customer name and address if known, and return it to us. This information will allow us to update our records so we can contact the new owner and you will not be contacted again regarding this recall.
6. If this vehicle also needs to have **AFC 04909** performed, the shock part number installed in **this recall supersedes** the shock part number installed in **AFC 04909**.

RECALL CLAIMS

For Repairs Performed By Customer or Non-Authorized IC Dealers

To assist in processing the recall, it is important that you provide an invoice with the following information.

VIN # (or List of VINs repaired)

Recall Campaign #05508 & SUBJECT (RE Driveline with IROS)

Facilities Repair Labor Rate

Labor Operation Number

Your Tax ID Number

All correspondence must be returned to IC Corporation, PO Box 6000, Conway, Arkansas, 72033, Attn: Compliance Department.

REIMBURSEMENT OF REPAIRS COMPLETED PRIOR TO THE RELEASE OF THIS RECALL

If you paid to repair your vehicle for this defect prior to receiving this recall letter, you may be eligible for reimbursement of the repair costs if they were incurred between March 23, 2004 and August 5, 2005. Contact your local IC Dealer, with your original repair documentation and proof of payment, and the local service advisor will determine what If any of the repair costs will qualify for reimbursement. However, if you choose not to work through an IC Dealer, you may submit the enclosed "REQUEST FOR REIMBURSEMENT" form, repair documentation and proof of payment to:

International Truck and Engine Corporation
Warranty Claim Center Reimbursement Department
P.O. Box 888
Warrenville, IL 60555

IF YOU NEED ASSISTANCE

If you take your vehicle to your dealer on a mutually agreed upon service date, and the dealer does not remedy this condition without charge on that date or within five days, you can obtain assistance by following the procedure described in the Owner Assistance Guide section in your Owner's Manual or by calling toll free 1-800-448-7825.

You may also wish to submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C., 20590, or call the toll-free Auto Safety Hot-Line at 1-888-327-4236 if your IC Dealer fails to repair or is unable to remedy this condition without charge or within a reasonable time.

We request your prompt attention to the correction of this defect and apologize for any inconvenience this may cause you.

PARTS INFORMATION

Because the parts required are VIN specific, the parts are not listed in this procedure. Your dealer will order the parts required for your VIN. Or, if you choose to make the repairs yourself, you may follow the procedure above in *Actions You Should Take - step #2*.

INSPECTION AND REPAIR PROCEDURE

The repair procedure required is dependent on the VIN of the bus. Only charges for the labor and parts that each VIN **requires** will be honored.

One of the following repairs will be completed. These variations are VIN specific.

<u>VARIATION 1 A</u>	REPLACE AXLE STOPS, REPLACE SHOCKS, REVERSE ORIENTATION OF DRIVESHAFT & REPLACE U-JOINT STRAPS.
<u>VARIATION 1 B</u>	REPLACE AXLE STOPS, REPLACE SHOCKS, REPLACE DRIVESHAFT & REPLACE U-JOINT STRAPS.
<u>VARIATION 2 A</u>	REPLACE SHOCKS, REVERSE ORIENTATION OF DRIVESHAFT & REPLACE U-JOINT STRAPS.
<u>VARIATION 2 B</u>	REPLACE SHOCKS, REPLACE DRIVESHAFT & REPLACE U-JOINT STRAPS.
<u>VARIATION 3</u>	REPLACE DRIVESHAFT & REPLACE U-JOINT STRAPS

Driveshaft...the correct **new** orientation is

Stub shaft = Male end: goes on axle end

Slip shaft = Female end: goes on transmission end

Not all VINs will have the driveshaft replaced. All VINs will have the **driveshaft orientation changed OR the driveshaft replaced**. The orientation described above should be the **final** orientation of the driveshaft.

Strap Kit...because the current driveshaft will be removed in all cases, all VINs will also require the straps and strap bolts to be replaced. The correct strap kit will be determined by the current driveshaft if the driveshaft is re-oriented or by the new driveshaft if the driveshaft is replaced.

Shocks...these are the same for all VINs that require shock replacement. Remember that the repair variation is VIN specific and not all VINs require new shocks. If this VIN also needs to have **AFC 04909** performed and it has not been completed yet, the shock part number installed in **this recall supersedes** the shock part number installed in **AFC 04909**.

Axle Stops...these are the same for all VINs that require axle stop replacement. Remember that the repair variation is VIN specific and not all VINs require new axle stops.



WARNING:

TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN YOU PERFORM VEHICLE MAINTENANCE OR SERVICE.



WARNING:

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH WHEN SERVICING THE VEHICLE, PARK ON A FLAT LEVEL SURFACE, SET THE PARKING BRAKE, TURN THE ENGINE OFF AND CHOCK THE WHEELS.

It is not necessary to jack the bus up to complete these procedures.

Labor Operations

Table 1 - Torque Value for Strap Bolts		
<i>Driveshaft Series</i>	<i>Driveshaft ID</i>	<i>Torque Spec</i>
Sp190	0259Dxxxxxx	50-60 LbF-Ft (68-81 Nm)
1610	0260Dxxxxxx	50-60 LbF-Ft (68-81 Nm)
1710	0270Dxxxxxx	115-135 LbF-Ft (156-183 Nm)

REORIENT DRIVESHAFT & REPLACE STRAPS

1. Check the orientation of the driveshaft before performing this step.
2. Remove u-joint strap bolts and strap at one end of the driveshaft.
3. Remove u-joint strap bolts and strap at other end of the driveshaft.
4. Reverse the driveshaft orientation end-for-end and attach using **new** straps and **new** bolts. The driveshaft should now be oriented as follows:
Stub shaft = Male end: goes on axle end
Slip shaft = Female end: goes on transmission end
5. Tighten the strap bolts with a torque spec tool according to **Table 1** based on the driveshaft part number.

REPLACE DRIVESHAFT & REPLACE STRAPS

1. Remove u-joint strap bolts and strap at one end of the driveshaft.
2. Remove u-joint strap bolts and strap at the other end of the driveshaft.
3. Attach new driveshaft using **new** straps and **new** bolts. The driveshaft will now be oriented as follows:
Stub shaft = Male end: goes on axle end
Slip shaft = Female end: goes on transmission end
4. Tighten the strap bolts with a torque spec tool according to **Table 1** based on the new driveshaft part number.

REPLACE SHOCKS

1. Remove left shock and replace with new shock using **new** bolts.
2. Torque left shock bolt to **between 148 and 177 LbF-Ft** (200-240 Nm) using a torque spec tool.
3. Remove right shock and replace with new shock using **new** bolts.
4. Torque right shock bolt to **between 148 and 177 LbF-Ft** (200-240 Nm) using a torque spec tool.

REPLACE LEFT AXLE STOP – Refer to Figure 1 below

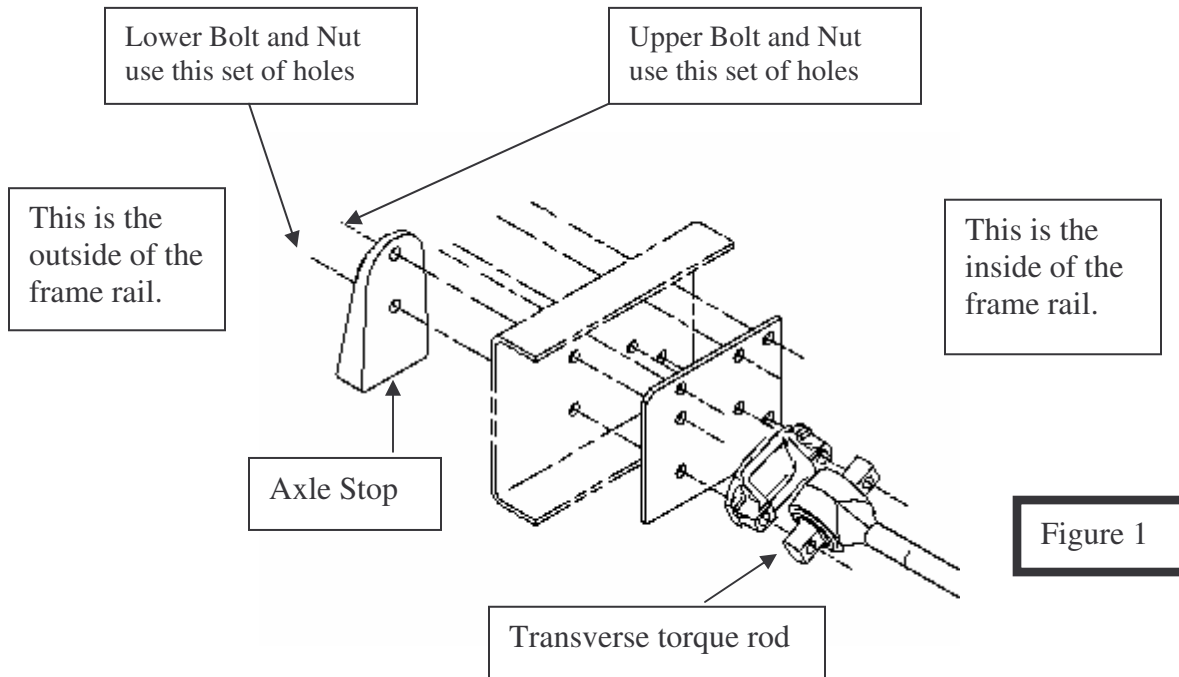
1. Remove Upper Nut and Upper Bolt that holds axle stop to frame rail.
2. Remove Lower Nut and Lower Bolt that holds axle stop to frame rail.
3. Replace axle stop with new one.
4. Replace the axle stop bolts and nuts with the **new** bolts and nuts that are included in the kit. Both bolts for the left side are the same length.
5. Torque the axle stop nuts to **between 196 and 239 LbF-Ft** (266-324 Nm).

REPLACE RIGHT AXLE STOP – Refer to Figure 1 below

1. Remove Upper Nut and Upper Bolt that holds axle stop to frame rail.
2. Remove Lower Nut and Lower Bolt that holds axle stop and transverse torque rod to frame rail.
3. Replace the axle stop bolts and nuts with the **new** bolts and nuts that are included in the kit. Both bolts for the right side are **NOT** the same length. Use the **longer** bolt to replace the Lower Bolt that also holds the transverse torque rod to the frame.
4. Torque the axle stop nuts to **between 196 and 239 LbF-Ft** (266-324 Nm).

Axle Stops:

The axle stops are held to the frame rail by 2 sets of bolts and nuts that pass through the frame rail. **Right side** is shown in Figure 1 below. The proper position of the bolts and nuts is to place the bolts into the holes from the inside, so that the nuts are on the outside of the frame rail. This correct position allows sufficient access to the nuts for the torque operation.



End of Inspection and Repair

Procedure

LABOR

Labor Code	Description	Time (hours)
A40-05508-1	Inspect, setup & Variation 1A or 1B	1.10
A40-05508-2	Inspect, setup & Variation 2A or 2B	0.80
A40-05508-3	Inspect, setup & Variation 3	0.70

CAMPAIGN IDENTIFICATION LABEL

*Each vehicle corrected in accordance with this campaign **must be** marked with a S00109 Campaign Identification Label.*

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

DO NOT REMOVE
IC CORPORATION
Campaign No.
VIN
Eng.#
COMPLETED
Service Location Code #
DO NOT REMOVE

This label has been shipped with your letter.

IMPORTANT

In the event you no longer own the vehicle described, please fill in the requested information on the enclosed postage-prepaid card and return it to us. This information will allow us to notify the correct owner.

IC CORPORATION