



IMPORTANT SAFETY RECALL

This notice applies to your vehicle, please see attached VIN list.

March 26, 2015
First Transit Inc.
28 Telfair Place – Suite B
Savannah, GA. 31415
Attn: Paul K. Warren
Dear Customer:

Subject: Safety Recall Notice NHTSA Recall No. 15V-155

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

Reason for This Recall

EIDorado National California, Inc. ("EIDorado") decided that a defect which relates to motor vehicle safety exists in certain E-Z model buses manufactured between January 1, 2014 and December 31, 2014.

Other bus models manufactured by EIDorado are not included in this recall.

Vehicles subject to this recall campaign were manufactured with defective front non-drive axles manufactured by Meritor, Inc. between July 25, 2014 and December 5, 2014. Tie rod assembly fastening nuts used on front non-drive axles manufactured and sold by Meritor, Inc. were installed in buses manufactured by EIDorado or sold by EIDorado. Meritor, Inc. has determined that some of these axles may have a low torque condition on the tie rod assembly fastening nut. If the castellated nuts are not properly torqued, the tie rod may not be adequately secured, resulting in a loss of vehicle control and increasing the risk of crash. EIDorado is not aware of any warning of a risk of crash and a crash may occur without prior warning.

A copy of the Notice received from Meritor, Inc. is attached for your information.

What We Will Do

EIDorado, in connection with Meritor, Inc., will replace the defective parts at no cost to you. EIDorado will also reimburse you for the time to perform a torque check and replace parts as necessary. If you have immediate questions or concerns please contact one of the following people as soon as possible by e-mail or phone:

Robert Mendoza – Service Manager - Rmendoza@eldorado-ca.com
Tony Wayne – President – Twayne@eldorado-ca.com

909-591-9557

What You Should Do

Determine whether any of your vehicles listed above have the suspect non-drive axles. If your bus is on the attached VIN list, please have the vehicle inspected for the low torque tie rod assembly nut and remediate the same if it is in the low torque condition. For inspection and remediation instructions, see Meritor's TP-1554 included with this correspondence. If necessary, replace parts thereof provided by Eldorado to eliminate this safety risk.

If you have any of the subject non-drive axles in your service parts inventory that were obtained from Eldorado, please return to Eldorado for full credit. **THESE CANNOT BE USED AS SERVICE REPLACEMENT PARTS.**

If you are no longer in possession of these buses please contact Eldorado National California, Inc. with the name and address of where the buses are now.

If you have questions concerning this recall or if you need any assistance such as locating a Eldorado authorized dealer or repair facility, please contact the Eldorado by mail at Eldorado National California 9670 Galena Street, Riverside, California 92509, or by ,email at 'Rmendoza@eldorado-ca.com, or by phone at 909-591-9557, or by FAX 909-591-5285.

Notifications

We have notified the National Highway Traffic Safety Administration of this recall and the procedures involved. Should Eldorado fail or be unable to correct the defect without charge, you may write to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

Federal regulations require that any vehicle lessor receiving this recall notice must forward a copy of this notice to lessee within 10 days.

We are sorry to cause this inconvenience; however, we have taken this action in the interest of your safety and continued satisfaction with our buses.

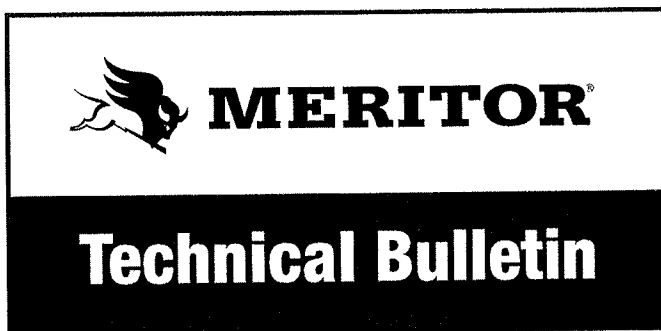
Sincerely,



Tony Wayne
President

Eldorado National California, Inc.

VIN	Serial #	Component	Manufacturer	Model	Axle Serial Number	Registered Owner	Address
1N9MMAC64EC084342	561585	Front Axle	MERITOR	MFS12155ANL	NWK00613796	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC68EC084330	561575	Front Axle	MERITOR	MFS12155ANL	NWK00613797	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC68EC084344	561587	Front Axle	MERITOR	MFS12155ANL	NWK00613798	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC66EC084343	561586	Front Axle	MERITOR	MFS12155ANL	NWK00613799	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC67EC084349	561592	Front Axle	MERITOR	MFS12155ANL	NWK00613823	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC67EC084352	561595	Front Axle	MERITOR	MFS12155ANL	NWK00613824	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC65EC084348	561591	Front Axle	MERITOR	MFS12155ANL	NWK00613825	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC63EC084347	561590	Front Axle	MERITOR	MFS12155ANL	NWK00613826	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC6XEC084345	561588	Front Axle	MERITOR	MFS12155ANL	NWK00613827	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC61EC084346	561589	Front Axle	MERITOR	MFS12155ANL	NWK00613828	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC65EC084351	561594	Front Axle	MERITOR	MFS12155ANL	NWK00614383	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC63EC084350	561593	Front Axle	MERITOR	MFS12155ANL	NWK00614384	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC6XEC084359	561602	Front Axle	MERITOR	MFS12155ANL	NWK00614385	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC66EC084360	561603	Front Axle	MERITOR	MFS12155ANL	NWK00614386	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC6XEC084362	561605	Front Axle	MERITOR	MFS12155ANL	NWK00614387	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC68EC084361	561604	Front Axle	MERITOR	MFS12155ANL	NWK00614388	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC69EC084367	561610	Front Axle	MERITOR	MFS12155ANL	NWK00616644	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC67EC084366	561609	Front Axle	MERITOR	MFS12155ANL	NWK00616645	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC60EC084368	561611	Front Axle	MERITOR	MFS12155ANL	NWK00616646	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC61EC084363	561606	Front Axle	MERITOR	MFS12155ANL	NWK00616647	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC63EC084364	561607	Front Axle	MERITOR	MFS12155ANL	NWK00616648	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC65EC084365	561608	Front Axle	MERITOR	MFS12155ANL	NWK00616649	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC69EC084353	561596	Front Axle	MERITOR	MFS12155ANL	NWK00616996	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC60EC084354	561597	Front Axle	MERITOR	MFS12155ANL	NWK00616997	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC62EC084355	561598	Front Axle	MERITOR	MFS12155ANL	NWK00616998	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC64EC084356	561599	Front Axle	MERITOR	MFS12155ANL	NWK00616999	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC66EC084357	561600	Front Axle	MERITOR	MFS12155ANL	NWK00617000	Savannah College	28 Telfair PL. Savannah, GA. 31415
1N9MMAC68EC084358	561601	Front Axle	MERITOR	MFS12155ANL	NWK00617001	Savannah College	28 Telfair PL. Savannah, GA. 31415



Checking the Tie Rod End Castle Nut Torque on Meritor Bus and Coach Non-Drive Steer and Tag Axles

MFS12155ANL16, FH946KX5, FH946KX41 and FH946KX52 Models Produced from 7-19-2014 through 12-5-2014

Hazard Alert Messages

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

⚠ WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury and damage to components can result.

Tie Rod End Castle Nut Torque Check

This technical bulletin provides instructions to check the torque and, if required, tighten the tie rod end castle nuts on MFS12155ANL16, FH946KX5, FH946KX41 and FH946KX52 models produced from 7-19-2014 through 12-5-2014. Instructions are also provided to inspect and replace the tie rod arms and tie rod ends, if required. Figure 1.

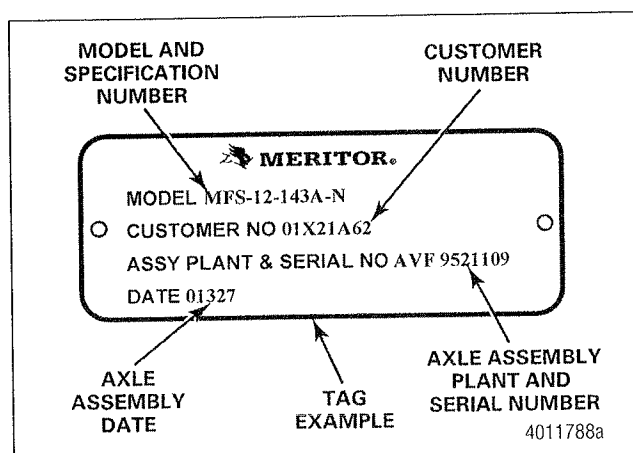


Figure 1

NOTE: The date is in a Julian date format. Example: 01327 = 327th day of 2001 or 11-23-2001.

How to Obtain Additional Maintenance, Service and Product Information

Refer to Maintenance Manual 23, Bus and Coach Front and Tag Axles. To obtain this publication, visit Literature on Demand at Meritor.com.

How to Obtain Parts

The tie rod end cotter pin used in this procedure may be obtained locally or ordered from Meritor's Commercial Vehicle Aftermarket in Florence, Kentucky by calling 888-725-9355; or in Brampton, Ontario, Canada by calling 905-454-7070.

Parts Required for Torque Check

- Cotter pin, 1/8" x 1.5", part number K-2412 (quantity 1), 2 cotter pins are required per axle

Tools Required

- Torque wrench, click or sweep face
- 7/8" deep-well socket for castle nut
- 5/8", 3/4" and 1-1/8" sockets
- Set of box-end wrenches
- Lineman's pliers or diagonals to pry or cut cotter pins

Contact the Meritor OnTrac™ Customer Call Center for Additional Assistance

If you have any questions about the instructions in this technical bulletin or would like further assistance, contact the Meritor OnTrac™ Customer Call Center at 866-OnTrac1 (668-7221). Refer to Program: C15AB.

Standard Repair Time (SRT)

The standard repair time is 0.2 hours per side per axle for checking the torque and, if required, tightening of the tie rod end castle nut(s). Additional times are as follows.

- 0.2 hours per side for inspection of tie rod stud and tie rod arm bore, if required
- 0.3 hours replacement of each tie rod end, if required
- 0.4 hours replacement of each tie rod arm, if required

Check the Torque on Tie Rod End Castle Nuts

⚠ WARNING

Consult with the Original Equipment Manufacturer (OEM) on any additional instructions for raising the unit. If the correct procedures are not followed, serious personal injury and damage to components can result.

1. Wear safe eye protection. Park the vehicle on a level surface.
2. Place blocks under the wheels not being serviced to keep the vehicle from moving.
3. Raise the vehicle so that the wheels you will service are off the ground. Support the vehicle with safety stands.
4. Remove the cotter pin that secures the tie rod end castle nut to the tie rod arm. Figure 2.

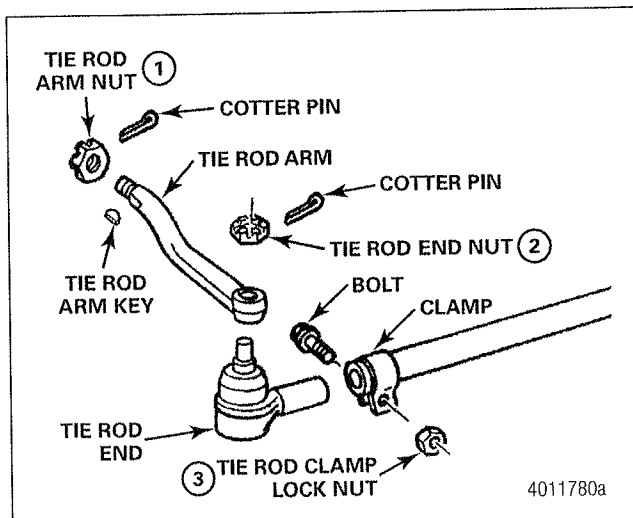


Figure 2

Item	Description	Size	Torque Range in Lb-Ft (N•m)
1	Tie Rod Arm Nut	1.250"-12	775-1450 (1051-1965)
2	Tie Rod End Nut	0.875"-14	160-300 (217-407)
3	Tie Rod Clamp Lock Nut	0.750"-10	155-175 (210-237)

5. Place a calibrated torque wrench on the tie rod end castle nut.
6. As a verification check to ensure the castle nuts are not hand loose or below 25 lb-ft (34 N•m), set the torque wrench to 25 lb-ft (34 N•m). Rotate the tie rod end castle nut in a clockwise direction and note if the nut turns before reaching the set torque. Figure 3.

- If the tie rod end castle nut does not rotate prior to reaching 25 lb-ft (34 N•m): Proceed to Step 7.
- If the tie rod end castle nut rotates prior to reaching 25 lb-ft (34 N•m): Remove the castle nut and tap the tie rod arm with a brass or leather mallet to check the taper lock. Note it is not necessary to strike the tie rod arm hard to perform this check. On some axles, the ball stud may be mounted above the tie rod arm. In such case, lift up on the tie rod end to verify the taper lock. The taper lock should not separate when the tie rod arm is tapped. The two parts should be locked together.

— If the joint separates easily when tapped: Proceed to the Inspect the Tie Rod Stud and Tie Rod Arm Bore, If Required procedure in this technical bulletin.

— If the joint does not separate when tapped: Proceed to Step 7.

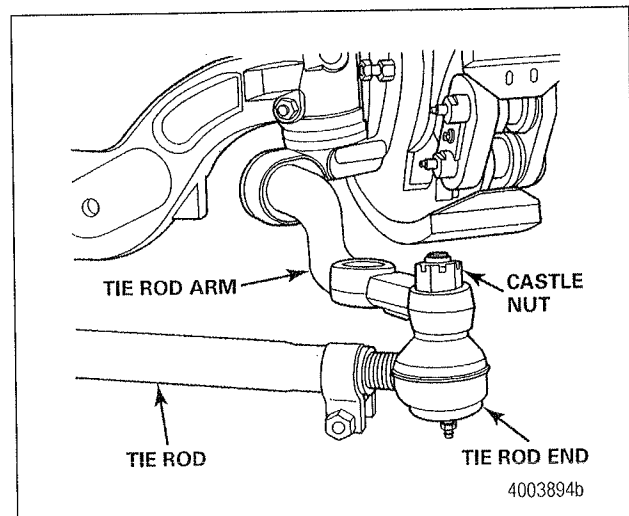



Figure 3

7. Install the tie rod castle nut and tighten to 160 lb-ft (217 N•m).

8. If the hole for the cotter pin is not aligned, tighten the castle nut to align the next available hole in the nut. Do not loosen the nut to align the cotter pin hole. Install a new cotter pin, part number K-2412 (1/8" x 1.5").
9. The torque check of the castle nut is complete. Repeat the procedure on the opposite side of the vehicle.


Inspect the Tie Rod Stud and Tie Rod Arm Bore, if Required

NOTE: If the taper lock inspection was performed and the taper lock separated, proceed with this procedure. If the taper lock did not separate, this procedure is not required.

1. Remove the cotter pin and nut that fasten the tie rod end to the tie rod arm. Figure 2.

WARNING

Use a brass or leather mallet for assembly and disassembly procedures. Do not hit steel parts with a steel hammer. Pieces of a part can break off and cause serious personal injury.

2. Disconnect the tie rod assembly from the tie rod arm. If necessary, use the removal tool to separate the tie rod end from the tie rod arm.
3. Inspect the tie rod end stud surface for damage or fretting.
 - **If damage is found:** Replace the damaged parts. Refer to the Part Replacement Procedures in this technical bulletin.
4. Inspect the tie rod arm bore surface for damage or fretting.
 - **If damage is found:** Replace the damaged parts. Refer to the Part Replacement Procedures in this technical bulletin.
5. Reinstall the tie rod assembly to the tie rod arm if no damage was found.
6. Install the tie rod end castle nut and tighten to 160 lb-ft (217 N•m). 
7. If the hole for the cotter pin is not aligned, tighten the castle nut to align the next available hole in the nut. Do not loosen the nut to align the cotter pin hole. Install a new cotter pin, part number K-2412 (1/8" x 1.5").
8. If necessary, lubricate the tie rod assembly. Refer to the Tie Rod Lubrication Procedure in this technical bulletin.

Part Replacement Procedures

Tie Rod End Replacement

Removal



NOTE: The tie rod has right-hand threads on one end and left-hand threads on the other end. Make sure the correct tie rod ends are installed on the tie rod.

1. Mark the position (length) where each tie rod end is installed in the tie rod. The position of the tie rod ends determines toe-in.

Alternate Method: With the wheels in the straight-ahead position, use a tape measure to measure the width of the complete tie rod assembly, from tie rod end to tie rod end.

2. Remove the bolt and nut from the clamp on the tie rod.
3. Remove the tie rod end from the tie rod. Figure 2.

Installation

1. Install the new tie rod end on the tie rod. Install the tie rod end to the position marked during removal of old tie rod end.
2. Install the nut and bolt in the clamps on the tie rod. Tighten the nut to 155-175 lb-ft (210-237 N•m). 
3. Clean and dry the tie rod end taper and the tie rod arm tapered hole.
4. Connect the tie rod end into the tie rod arm on the knuckle.
5. Install the tie rod end castle nut that fastens the tie rod end to the tie rod arm. Tighten to the castle nut to 160 lb-ft (217 N•m). 
6. Install the cotter pin. If the hole is not aligned, tighten the castle nut to align the next available hole in the nut. Do not loosen the nut to align the cotter pin hole.
7. Check and, if necessary, adjust toe-in. Refer to Maintenance Manual 23 for complete procedures.
8. Lubricate the tie rods. Refer to the Tie Rod Lubrication Procedure in this technical bulletin.

Tie Rod Lubrication Procedure

Lubricate the ends of the tie rod according to the following procedure.

1. Ensure the tires touch the ground.
2. Use a grease gun with 6% 12-hydroxy lithium stearate grease to lubricate the assembly. Apply the lubricant through the grease fittings on the assembly.
3. Apply the lubricant until new lubricant comes from the boot.

Tie Rod Arm Replacement

Removal

NOTE: The tie rod ends will already be separated from the tie rod arm at this point in the process.


1. Disconnect any steering linkage attached to the tie rod arm. Figure 2.
2. Remove the cotter pin and nut that secures the tie rod arm in the knuckle.

WARNING

Use a brass or leather mallet for assembly and disassembly procedures. Do not hit steel parts with a steel hammer. Pieces of a part can break off and cause serious personal injury.

3. Remove the tie rod arm from the knuckle. If necessary, tap on the end of the arm with a brass or leather mallet to separate the arm from the knuckle.
4. Remove the key from the tie rod arm.

Installation

1. Install the new key in the slot at the tapered end of the new tie rod arm. Press the key into the slot. Do not mix the arm key and slot types.
 - **Square Key:** Position the key flush to shoulder of the arm taper.
 - **Woodruff Key:** Position the key in the slot provided.
2. Install the tie rod arm in the knuckle.
3. Install the nut that fastens the tie rod arm to the knuckle. Tighten nut to 775-1450 lb-ft (1051-1965 N•m). 
4. Install the cotter pin. If the holes are not aligned, tighten the nut to the next hole in the nut. Do not loosen the nut to install the cotter pin.
5. Connect the tie rod arm to the newly installed or existing tie rod end. Refer to the tie rod assembly instructions in this technical bulletin.
6. Check and, if necessary, adjust toe-in. Refer to Maintenance Manual 23 for complete procedures.

Appendix

Parts used in replacement, if required

Table A: Tag Axle — FH946KX5

Part	Part Number
Tie Rod End, Right	
Tie rod end cotter pin	K2412
Tie rod end	R230134
Tie Rod End, Left	
Tie rod end cotter pin	K2412
Tie rod end	R230133
Tie Rod Arm, Right	
Tie rod arm key	16X1035
Tie rod arm slotted nut	1227Y1715
Tie rod arm cotter pin	K2618
Tie rod arm	3133Q7973
Tie Rod Arm, Left	
Tie rod arm key	16X1035
Tie rod arm slotted nut	1227Y1715
Tie rod arm cotter pin	K2618
Tie rod arm	3133P7972

Table B: Tag Axles — FH946KX41 and FH946KX52

Part	Part Number
Tie Rod End, Right	
Tie rod end cotter pin	K2412
Tie rod end	R230134
Tie Rod End, Left	
Tie rod end cotter pin	K2412
Tie rod end	R230133
Tie Rod Arm, Right	
Tie rod arm key	16X1035
Tie rod arm slotted nut	1227Y1715
Tie rod arm cotter pin	K2618
Tie rod arm	3133T7976
Tie Rod Arm, Left	
Tie rod arm key	16X1035
Tie rod arm slotted nut	1227Y1715
Tie rod arm cotter pin	K2618
Tie rod arm	3133S7975

Table C: Steer Axle — MFS12155ANL16

Part	Part Number
Tie Rod End, Right	
Tie rod end cotter pin	K2412
Tie rod end	R230132
Tie Rod End, Left	
Tie rod end cotter pin	K2412
Tie rod end	R230131
Tie Rod Arm, Right	
Tie rod arm key	16X1035
Tie rod arm slotted nut	1227Y1715
Tie rod arm cotter pin	K2618
Tie rod arm	3133H8796
Tie Rod Arm, Left	
Tie rod arm key	16X1035
Tie rod arm slotted nut	1227Y1715
Tie rod arm cotter pin	K2618
Tie rod arm	3133G8795



Meritor Heavy Vehicle Systems, LLC
 2135 West Maple Road
 Troy, MI 48084 USA
 866-OnTrac1 (668-7221)
 meritor.com

Information contained in this publication was in effect at the time the publication was approved for printing and is subject to change without notice or liability. Meritor Heavy Vehicle Systems, LLC, reserves the right to revise the information presented or to discontinue the production of parts described at any time.

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 Issued 02-15
 (16579)

IMPORTANT SAFETY RECALL INFORMATION

Extremely Urgent

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**NOTICE:
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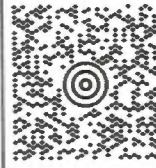


(909) 591-9557
EL DORADO NATIONAL INC.
9670 GALENA ST.
RIVERSIDE CA 92509

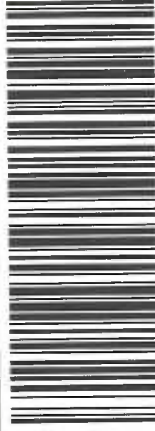
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