

Hoglund Bus Co., Inc.
823 South 19th Ave.
Marshalltown, IA 50158

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HOGLUND BUS CO., INC.

The School Transportation Specialists

FEBRUARY 2006

BUS INVENTORY

NEW BUSES IN STOCK

CONV.-65-71-77 PASS / FE-77

USED BUSES

USED BUSES LOCATED IN MONTICELLO, MN

MAY BE MADE IOWA COMPLIANT

2002-65p INT'L 5sp 444 Airbrakes

1999-59p GMC BB 5sp Hydraulic Brakes

**NEW MID BUS CUTAWAYS IN STOCK- 14 TO 28 PASS!
LIFT UNITS AVAILABLE**

FULL POWER INTERNATIONAL BRAKE TRAINING SESSION

Hoglund Bus Co. and International are offering another informational training session!

Wednesday, March 15th from 10am-1pm
Located at our new facility in Marshalltown.

Lunch will be provided.

The training agenda includes: cutaways used for demo of the new system, discussion of Why and How the new system works, as well as presentations and diagnostics.

Class size is limited.

Call 1-641-752-4733 for an agenda and registration form.

Attend the session to learn more about International's New Brake System!

*Please note that there is no charge for the class; however, there is a \$25.00 fee for any no shows or cancellations made after March 8th.

**Thank you to those who participated in the BE Challenge.
If you have not received your hat yet, you should receive it
via mail shortly. All answers to the quiz are TRUE!**

MONTHLY FEATURES

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HOGLUND BUS CO., INC.

Toll Free: 1-877-752-4733

Parts: 1-800-866-3104

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ENGINE AND TRANSMISSION ECU CLEAN POWER CONNECTOR

DESCRIPTION

Intermittent operation of the engine ECM and/or the Allison transmission ECU's can often be caused by poor electrical connections in the Clean Power and Ground Connectors 6323, 7104, or 7104F or the Chassis/Dash Connector 9700. Poor connections can be caused by "pushed back" pins, loose pins, corroded connectors, or poorly mated connectors. The following procedures should be followed to diagnose and repair these connector problems.

PARTS INFORMATION

Kit #	Connector Description	Conn. #	CIR FM BAT	CIR TO ECU
3517501C1 BSP29006	Engine ECM Clean Pwr.	6323	N97AA (10RD)	K97x (10VT)
- - -	Engine ECM Ground	6323	N97-G (10WH)	K97X (10WT)
2587365C91	Allison Clean Pwr.	7104	N92-A (10RD)	L92#103 (14TN)
- - -	Allison 2000 Ground	7104	N92-G (10WH)	L92-G (14TN)
3517501C1 BSP29006	Allison MN Clean Pwr.	7104F	N92-A (10RD)	L92#136 (10TN)
- - -	Allison MD Ground	7104F	N92-G (10WH)	L92#143 (10TN)

Use Packard crimper 12085115 or equivalent to properly crimp open terminal splices without creating sharp edges during the crimping process.

PROCEDURE:

ENGINE CLEAN POWER AND GROUND CONNECTOR 6323

1. Locate engine clean power and ground connector near the starter. Refer to Figure 1. Engine harness contains one violet wire and one white wire.
2. Disconnect the connector and check for corrosion and pushed back pins.
3. Drag test all terminals with a new terminal 1687848C1. Refer to Figure 2.
4. If the pins are corroded, pushed back, or do not fit tightly together and produce a significant amount of drag while separating, the terminals and connector will need to be replaced with terminal splice 3517501C1 and BSP29006 heat shrink tubing (See Parts Table).
5. If the connector/terminals pass the drag test and show no sign of corrosion, apply a small amount of dielectric grease, part number 1831731C1 to the terminals and around the seal and reconnect.
6. Strap lock connector to battery cable so connector is above the bottom of the frame rail. Tie strap should go around the connector body and not the wires. (Caution: connector should not be lower than the bottom flange of the frame rail.)



Figure 1

ALLISON TRANSMISSION CLEAN POWER AND GROUND CONNECTOR 7104 OR 7104F

1. Locate transmission clean power and ground connector near the starter. Refer to Figure 1. Transmission harness wires are tan in color.
2. Disconnect the connector and check for corrosion and pushed back pins. If corrosion is present replace the existing connector and terminals with kit listed in Parts Table.
3. Drag test all terminals with a new terminal 2025423C1. Refer to Figure 2. If terminal does not fit securely and have a significant amount of drag the terminals and connector will need to be replaced with the kit listed in the Parts Table.
4. If the connector passes the drag test and shows no sign of corrosion, apply a small amount of dielectric grease, part number 1831731C1 to the terminals and around the seal and reconnect.
5. Strap lock connector to battery cable that is no lower than the bottom of the frame rail. Tie strap should go around the connector body and not the wires. (Caution: connector should not be lower than the bottom flange of the frame rail.)



Figure 2

CHASSIS/DASH CONNECTOR 9700

1. Locate the Chassis/Dash connector 9700 in the engine compartment near the wiper motor. Connector 9700 has a gray cam lock lever. Refer to Figure 3.
2. Inspect harness for proper routing and clipping. If harness and connector are tight remove tie straps and clamps and reposition harness to remove stresses on wires at the connector. Test vehicle systems for correct operation and system controller for fault codes.



Figure 3

Article taken from International's Service Manual

INTERNATIONAL'S BUS ISIS RENEWED!

International has decided to extend their free trial offer of BUS ISIS for another year!

Bus ISIS provides you with:

- Service Manuals
- Service Bulletins
- Campaigns
- Parts Publications
- Warranty Information



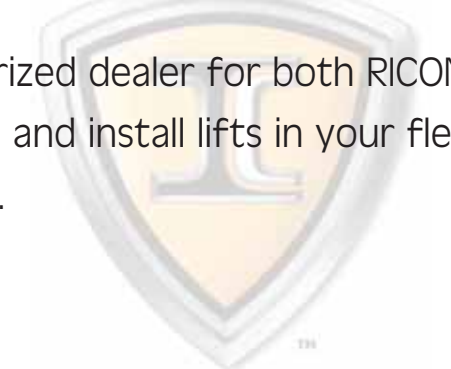
If you have not taken advantage of this great offer, and are interested in a FREE trial of BUS ISIS from International, contact Amanda at Hogleund Bus Co., Inc. at 763-271-2959 or marketing@hoglundbus.com.



WHEELCHAIR LIFTS AVAILABLE

DON'T FORGET!

Hogleund Bus Co. is an authorized dealer for both RICON and BRAUN wheelchair lifts. We are available to sell and install lifts in your fleet vehicles. Contact us today for more information.



CALL OUR TECH HELPLINE AT 1-866-286-1320 AND ASK FOR JOE!

Call our service department at 641-752-4732 or 1-877-752-4733 to set up an appointment.