



# Service Bulletin No. 1069

<b>COACH MODEL</b>	: T2100 Series
<b>BULLETIN TYPE</b>	: Product improvement
<b>MANUAL &amp; SECTION</b>	: Maintenance Manual : Chapter 9 - Electrical system Spare Parts Manual : Section 783509 - Electrical equipment
<b>DATE</b>	: January 31st, 2001
<b>SUBJECT</b>	: 24 VDC External power source socket
<b>TERMS &amp; CONDITIONS</b> : Parts may be purchased from your nearest International Coach Parts Inc. dealer. No claims will be accepted with reference to this Bulletin.	

**DESCRIPTION:**

<b>CAUTION</b>
<p><b>THE SOCKET DISCUSSED IN THIS BULLETIN IS NOT A DIAGNOSTIC TEST LINK. ANY ATTEMPT TO ATTACH TESTING EQUIPMENT MAY RESULT IN EQUIPMENT DAMAGE.</b></p> <p><b>THE EXTERNAL POWER SUPPLY MENTIONED BELOW SHOULD BE A 24V DC SOURCE CAPABLE OF DELIVERING AT LEAST 35 AMPÈRES.</b></p> <p><b>TO PREVENT DAMAGE TO THE COACH ELECTRICAL SYSTEM, OR TO THE EXTERNAL POWER SOURCE, MAKE SURE THE INTERIOR LIGHTS ARE SWITCHED OFF BEFORE CONNECTING UP THE POWER CABLE.</b></p>

1. Effective as from units VIN43138 (Cummins) and VIN43662 (Detroit Diesel) a separate socket has been introduced on T2100 Series coaches, allowing the use of an external 24V DC source to power some of the interior lighting circuits. This accessory is located on the left-hand outside panel of the main junction box electronics section (see Figure 1). With the socket connected to a suitable power cable, the fluorescent aisle lights are switched on automatically.

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

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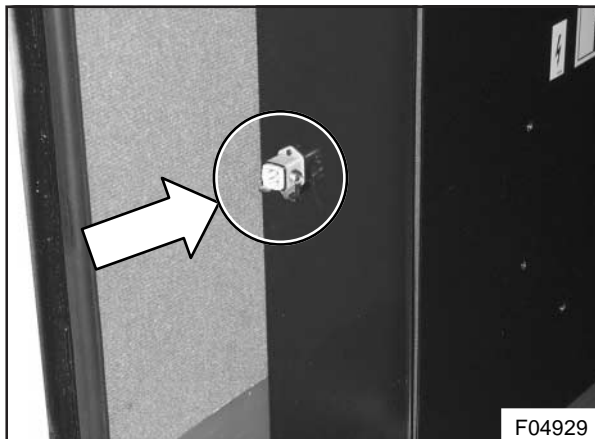


Figure 1 : Socket on the left outside panel of the main junction box

- The wires of the 24V DC power source cable should be connected as shown in Figure 2 to multi-wire connector VH 10643046, which fits the socket in one position only.

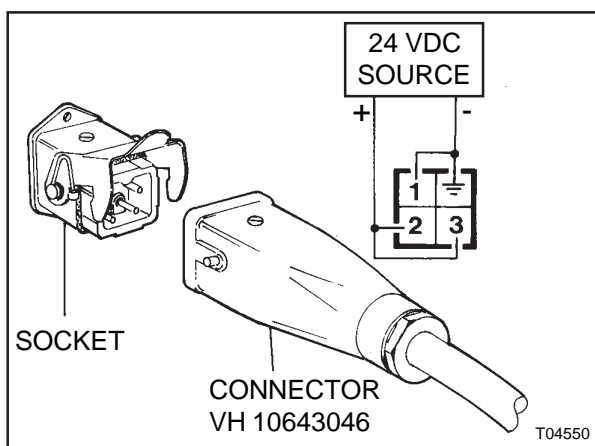


Figure 2 : Multi-wire connector VH 10643046 and power cable connections

- Connect the plus wire of the 24V DC power source cable to terminals #2 and #3 of the connector.
- Connect the power cable ground wire to terminals #1 and ground of the connector.

**CAUTION**

**WIRES OF EXTERNAL POWER SOURCE OUTPUT CABLES SHOULD HAVE A CROSS SECTIONAL AREA OF AT LEAST 6 MM<sup>2</sup>/8 AWG.**

**CABLES WHICH ARE LONGER THAN 10M/30FT WILL NEED WIRES WITH A LARGER CROSSECTIONAL AREA DEPENDING ON THE ACTUAL CABLE LENGTH.**

**AN ADAPTER CABLE WILL BE REQUIRED TO CONNECT THE WIRES OF THE SUPPLY CABLE TO THE 2.5 MM<sup>2</sup>/12AWG TERMINALS OF MULTIWIRE CONNECTOR VH 10643046 (REFER TO FIGURE 3).**

**EXTENSION CORDS SHOULD BE UNREELED COMPLETELY BEFORE BEING CONNECTED TO THE EXTERNAL POWER SOURCE SOCKET.**

**MAKE SURE THE POWER CABLE IS DISCONNECTED BEFORE MOVING THE COACH.**

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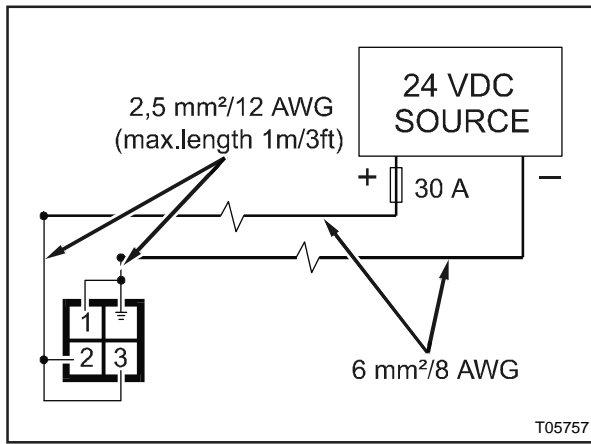


Figure 3 : Typical schematic for 24 V DC power cables not longer than 10 m/30 ft.

### **PARTS :**

Always use genuine maintenance products and parts. Do not accept imitations.

<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
VH 10630895	Mounting bracket	1
VH 10547718	Socket, housing	1
VH 10547733	Socket, body	1
VH 10547720	Multi-wire connector, body	1
VH 10547731	Multi-wire connector, housing	1
VH 660763933	Clamp nut	1
VH 10643046	Multi-wire connector, complete	1

### **SERVICE INFORMATION :**

1. Socket may be purchased as an assembly or in separate parts.
2. Power requirements : the external power supply mentioned in this Bulletin should be a 24 VDC source capable of delivering at least 35 ampères.

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