

SB 4-269-002

JANUARY 2008

ATTENTION: SERVICE MANAGERS / PARTS MANAGERS

SUBJECT: REVISED WIRE TERMINAL IN ALLISON TRANSMISSION WIRE HARNESS

Service Bulletin Information

Service bulletins are product modifications and/or product improvements that Autocar has determined will enhance the reliability of the vehicle.

Autocar is providing this particular service bulletin because of a change in materials of a sub-supplier; namely, Molex, Inc. replaced a female terminal used in its wire harnesses, which it supplies to Allison Transmission, which in turn supplies transmissions to Autocar.

In order to attach a wire to Molex's new terminal, service providers will need to purchase a new crimping tool. This bulletin explains the differences between the terminals to enable the technician to select the correct crimping tool for either terminal. Individual facilities can elect to purchase the new crimping tools to enable them to provide harness repair services if requested by customers.

Molex has replaced the MX150 (1.5 mm) female terminal used in OEM harness connections to the Allison 4th Generation Control System. Complete part number information is shown in *Table 1*, on *page 3*. The terminals are used in AFL 80W Female Connectors 29543004, 29543005, 29543192, 29544296, and 29544300; AFL 20W Female Connector, 29543022; and AFL 24W Female Connector, 29543039.

Molex stopped shipment of the discontinued terminal on 14 MAY 2007 and began shipment of the replacement terminal on 15 MAY 2007. Even though Molex has identified a stop/start point and uses different part numbers to identify the terminals, St. Clair Technologies sells both Molex part numbers under the same St. Clair part number, possibly resulting in mixed stock in service part inventories.

Continuous Product Improvement

Autocar strives to continually evaluate and improve our trucks' performance in the field. It is our goal that every truck performs to the high standards by which Autocar trucks are built. Autocar is committed to continuous product improvement but has no legal obligation to update existing chassis or bear the cost of any updates after a vehicle has been placed in service, outside of its limited warranty.

LOCKOUT/TAGOUT PROCEDURES

Before entering the vehicle or vehicle body, read and follow OSHA regulations concerning entry and working in "CONFINED SPACE" OSHA 1910.146 and "LOCKOUT/TAGOUT" OSHA 1910.147.

Follow OSHA regulations while performing any work on the vehicle.

The vehicle must be disabled by the following steps before performing any work on the vehicle:

- 1. Place the transmission in PARK.**
- 2. Set the parking brake.**
- 3. Shut the engine OFF.**
- 4. Turn the battery disconnect switch OFF.**
- 5. Lock cab doors, keep the key in your pocket, and block the wheels before entering the body or performing any work on the vehicle.**
- 6. Place magnetic "DANGER" signs on both cab doors before entering the body or performing any work on the vehicle.**



Questions? Visit the Autocar website at www.autocartruck.com and click the **Web-Link Direct** icon to request emergency service assistance.

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GENERAL SAFETY NOTICES

WARNING

To prevent eye injury, always wear eye protection when performing vehicle maintenance, service, or inspection.

DANGER

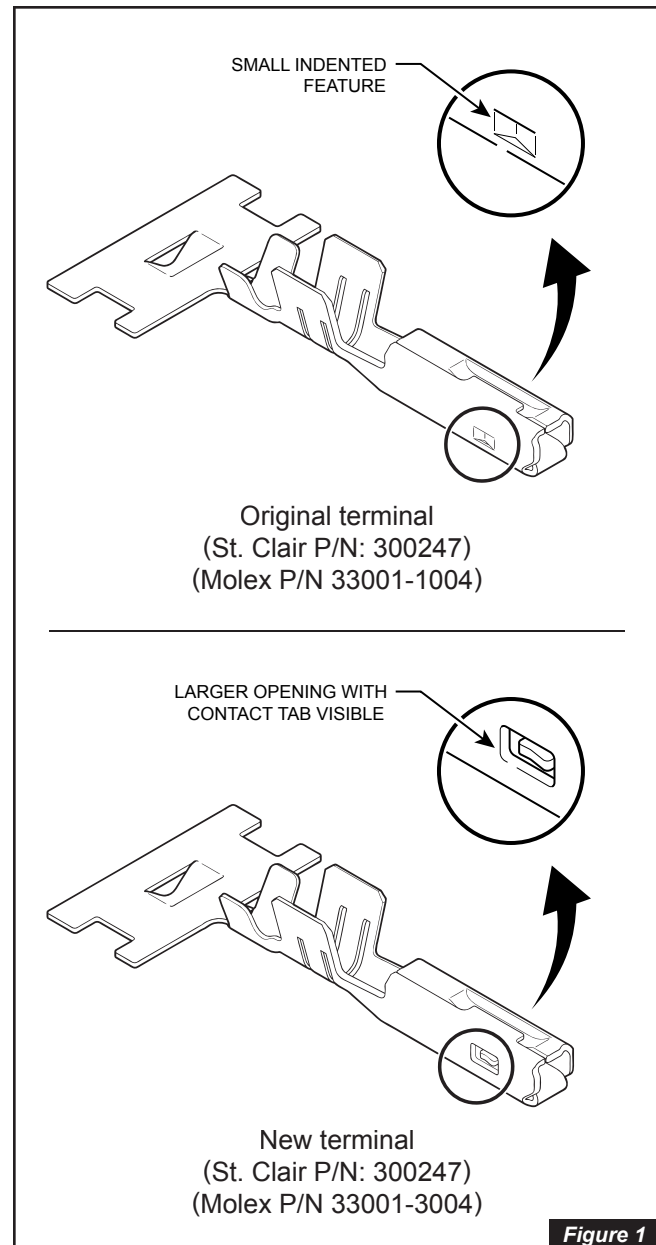
Before working on a vehicle, turn the engine to off, set the parking brake, place the transmission in park, and block the wheels. Failure to do so can result in unexpected vehicle movement, resulting in serious personal injury or death.

Previous Terminal and New Terminal

Figure 1 illustrates the former and current terminals. The most observable difference is the current terminal has “windows” on each side of the contact area and the spring member of the female terminal has “wings” which extend into the “windows” reaching to the outer surface on each side of the terminal. The former terminal has a dimple on each side in the same general area of the window. The metal from which the former terminal was formed was 0.25 mm (0.010 inch) thick and the metal in the current terminal is 0.30 mm (0.012 inch) thick. The additional 0.05 mm (0.002 inch) thickness of the metal requires a different crimping tool for the current terminal than for the former terminal.

Table 1 provides terminal and crimper part number information. Molex advises that the former terminal should only be crimped with the former crimper and the current terminal should only be crimped with one of the current crimpers.

Figure 2 illustrates the crimping tools.



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Table 1	Terminal part numbers			Tool part numbers			
	St. Clair	Molex		Premium Grade™		Service Grade™	
		Left payoff from spool	Right payoff from spool	Molex part number	SPX part number	Molex part number	SPX part number
“Current” terminal	300247	33001-3004	33001-2004	63811-6000 ¹	n/a	64016-0133 ²	n/a
“Former” terminal	300247	33001-1004	33001-0004	63811-2700	J 47139	n/a	n/a

¹ Available from both Heilind/Force Electronics and Newark InOne (shown in *Figure 2*)

² Available from only Newark InOne (shown in *Figure 2*)

NOTES:

63811-6000 (*PremiumGrade™*): hand tool for 18-22 AWG MX150 terminal (ratchets)

64016-0133 (*ServiceGrade™*): hand tool for 14-22 AWG MX150 terminal (for field repair, ratchets)

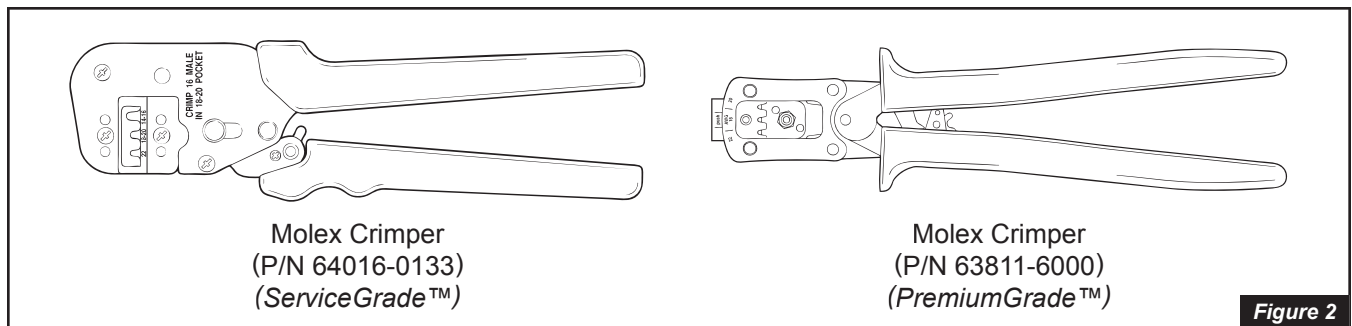


Figure 2

Terminal Interchangeability

The two terminals described in this bulletin are completely interchangeable and stock of the former terminal can be used up rather than scrapped. The current terminal does offer increased resistance to distortion, should a technician insert a probe into a terminal during the troubleshooting process.

Terminal Availability

Terminals for service repairs can be purchased from:

St. Clair Technologies, Inc.

845 E. Ohio #103
Tucson, AZ 85714-3313

877-620-5689 (toll-free, US)
520-746-8067 (office)
520-746-8087 (fax)

Tool Availability

At this time, two suppliers have indicated they are willing to waive minimum buy requirements for the new crimper. The two suppliers are noted below along with the information that is available regarding ordering procedures. *Table 1* also notes which tools are available from the suppliers.

Crimping tools are available from **Heilind/Force Electronics, Newark InOne, Newark, Farnell,** and **Farnell-Newark** at the following addresses/telephone numbers:

Heilind/Force Electronics

800-400-7041 (USA Support)
866-314-7055 (USA Distributor/Broker Support)
978-988-3329 (International Support)
866-290-9280 (Eastern Canada Support)
800-613-6723 (Western Canada Support)



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To place an order by credit card with Heilind, use the order form at the end of this bulletin and send it to Heilind as follows:

1. By fax, to 440-473-9330
2. By email as an attachment, to kbrown@heilind.com

Orders can be accepted and shipped worldwide. Orders will be confirmed within one business day of Heilind's receipt of an order.

If you cannot purchase by credit card, use the contact information on the order form to establish a business account.

For international orders, credit card or wire transfer are the only acceptable methods of payment.

Newark InOne, Newark, Farnell, Farnell-Newark

Ordering in the USA:

Newark part number: 50M9286
Molex part number: 64016-0133
Description: MX150 22-14 AWG Service Grade Hand Tool
Price: \$177.60 / each

Newark part number: 41M1649
Molex part number: 63811-6000
Description: Handtool
Price: \$328.32 / each (premium grade)

How to order:

On the web (www.newark.com), or by calling 800-4-NEWARK, or by faxing an order to 888-551-4801.

Ordering in Europe:

Order Code: 1511776
Molex part number: 64016-0133
Description: MX150 22-14 AWG Service Grade Hand Tool
Price: £134.15 / each

Order Code: 1511775
Molex part number: 63811-6000
Description: Hand tool
Price: £362.20 / each (premium grade)

How to order (Europe):

On the web site at www.farnell.com or by visiting your local sales office (for locations, see the Farnell web site).

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Ordering in Asia Pacific:

Order Code: 1511776
Molex part number: 64016-0133
Description: MX150 22-14 AWG Service Grade
Hand Tool
Price: (SGD) 278.83 / each
Price: (MYR) 744.84 / each

Order Code: 1511775
Molex part number: 63811-6000
Description: Hand tool
Price: (SGD) 790.15 / each (premium grade)
Price: (MYR) 2,109.70 / each (premium grade)

How to order (Singapore / Export Orders):

+65 6788 0200 (telephone)
+65 6788 0300 (fax)
Online: www.farnell-newark.com
Email: sg-sales@farnell-newark.com

How to order (Malaysia):

1800 88 6223 (toll-free)
03 5636 6226 (fax)
Online: www.farnell-newark.com
Email: my-sales@farnell-newark.com





5300 Avion Park Drive
 Highland Heights, OH 44143 USA
 Kathy Brown 440-995-3977
 Fax: 440-473-9330
 kbrown@heilind.com

SHIP TO:

BILL TO:

EMAIL _____
 PHONE _____
 FAX _____

PART NUMBER	QUANTITY	UNIT COST (Effective September, 2007)	TOTAL
63811-6000 Hand Tool	_____	260.00*	_____
_____	_____	_____	_____

*PRICING GOOD THRU JUNE 30, 2008

PAYMENT METHOD: VISA - MC - AMEX
 CARD NUMBER _____
 NAME ON CARD _____

EXPIRATION DATE _____
 VERIFICATION CODE _____

SHIPPING/HANDLING METHOD: UPS
 (Effective September, 2007)

US	\$14 _____
US - 2 OR 3 DAY	\$18 _____
US - 1 DAY	\$27 _____
CANADA - GROUND	\$18 _____
CANADA - UPS 2 DAY OR 3 DAY	\$43 _____
CANADA - 1 DAY	\$53 _____
INTERNATIONAL - ALL ORDERS	\$68 _____