



SB 3-133-001

NOVEMBER 2007

ATTENTION: SERVICE MANAGERS / PARTS MANAGERS

SUBJECT: INSTRUCTIONS FOR REPLACING DUAL DRIVE CROSSOVER RELAY (P/N: A1330005-001) WITH WILLIAMS CONTROLS CROSSOVER RELAY (P/N: 134224)

Service Bulletin Information

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

Repair

If the dual drive crossover relay requires replacement, perform the replacement operation as described in the **REPAIR PROCEDURE** on page 2.

Parts

The original dual drive crossover relay (P/N A1330005-001) is no longer manufactured. A new relay (P/N 134224) has been designated as the replacement part. The new relay is not a direct-replacement part. This service bulletin describes the procedure to modify the replacement relay in order to adapt it to the vehicle's current chassis/body wiring harness.

Set forth below are the parts to upgrade one dual drive crossover relay:

Part number and description	Quantity
Williams dual drive crossover relay (134224).....	1

Tools

The following tools are required to perform this service bulletin:

- Wire cutter/stripper
- Wire crimper

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. While we are committed to continuous product improvement, Autocar may or may not elect to upgrade in-service vehicles at our cost.

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.

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.

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REPAIR PROCEDURE

CAUTION

Always work with proper grounding straps and antistatic mats around electrical components.

NOTICE

These instructions are only applicable when replacing dual drive crossover relay (A1330005-001) with Williams Controls crossover relay (134224). If you are replacing relays with different part numbers, call the Autocar service hotline at 877-973-3486.

STEP 1: Remove the original crossover relay from its installed location on the vehicle.

STEP 2: Disconnect the electrical connectors from the vehicle's main cab wiring harness and remove the relay from vehicle.

STEP 3: Leaving 3 to 4 inches of wire attached to the original relay's connectors, cut the three connectors off of the original relay. **Do not discard these connectors, as they will be used to install the replacement relay.**

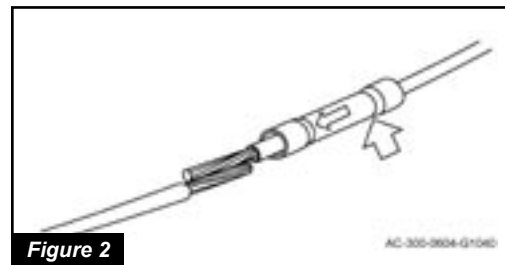
STEP 4: Strip approximately 1/2" of wiring insulation from the replacement relay wires, and from the end of the terminal wires.

NOTE: Refer to *Table 1 and Figure 1 (on page 3)* to correlate wire colors between the connectors (removed from the original relay) and wire colors on the replacement relay.

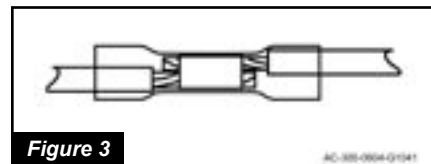
NOTE: You must follow *Table 1 and Figure 1*, as some wire functions have changed from the old relay to the new relay.

NOTE: Wire colors in italics (as shown in *Table 1*) represent changes from the old relay to the new relay.

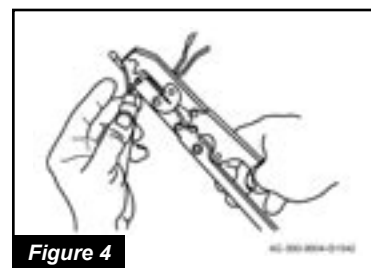
STEP 5: Determine the proper size of parallel splice connector for the wires being spliced. Slide splice connector over both wires (*Figure 2*).



STEP 6: Place the strands of bare wire overlapping each other inside of the splice connector (*Figure 3*).



STEP 7: Insert the connector into the proper anvil on the crimping tool and crimp the splice connector over the wires (*Figure 4*). Gently tug on the spliced connection to be sure the wires are secure in the splice connector.



STEP 8: After splicing all wires together, reinstall the dual drive crossover relay and re-connect the relay connectors.

Please direct all questions regarding this service bulletin to: info@autocartruck.com or call the service hotline at 877-973-3486 (extension 6062).

SERVICE BULLETIN



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Table 1 :

Connector	Original Relay Wire Color	Connector Pin Location	Replacement Relay Wire Color
CAB	Orange	A	Green
	Blue	B	Blue
	Black	C	Black
	not used	D	not used
	not used	E	not used
	Red	F	Red
	White	G	White
	Green	H	Orange
REMOTE	Orange	A	Green
	Blue	B	Blue
	Black	C	Black
	Black *	D	Black
	Red *	E	Red
	Red	F	Red
	White	G	White
	Green	H	Orange
ECU	Orange	A	Green
	Blue	B	Blue
	Black	C	Black
	not used	D	not used
	not used	E	not used
	Red	F	Red
	White	G	White
	Green	H	Orange

* From power-side of relay

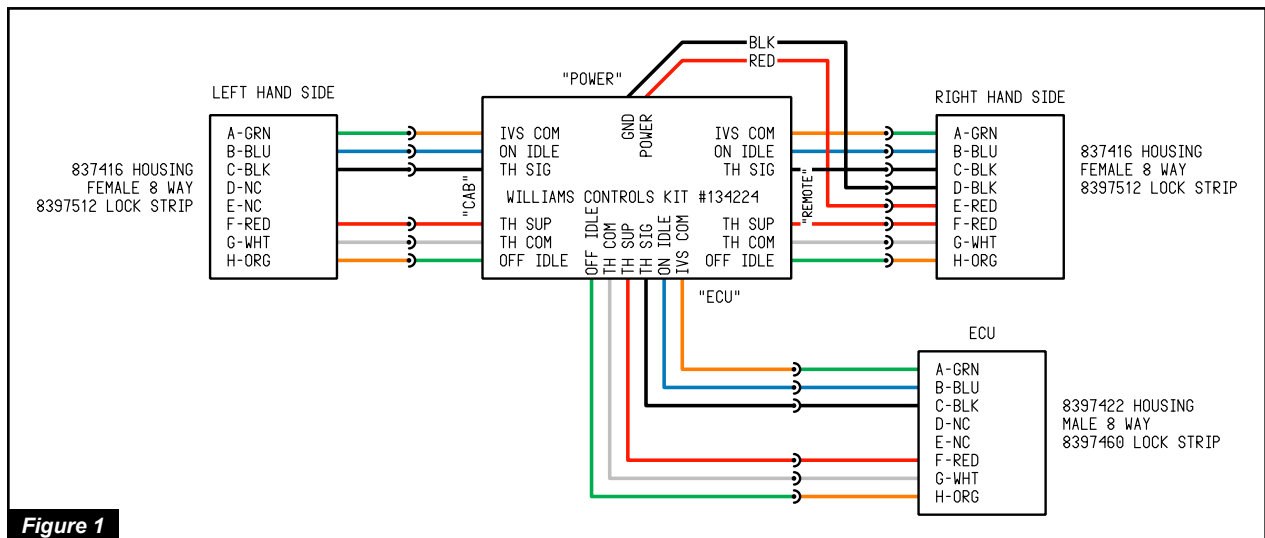


Figure 1