

SAFETY RECALL BULLETIN

ATTENTION: SERVICE MANAGERS
PARTS MANAGERS

SUBJECT: Circuit Breaker

Revised February 29th, 2008, Please discard any printed copies and replace with this current edition.

SAFETY RECALL INFORMATION:

The circuit protection (i.e. automatic circuit breakers) used to protect the vehicle lighting system may not provide adequate protection. If a short circuit occurs and is left untreated, components and wiring may be subject to overheating which could potentially result in a vehicle fire.

VEHICLES AFFECTED:

Certain VHD, VNL, VNM and VT model vehicles manufactured from November 2002 through October 2007.

There are approximately 125,000 vehicles (104,845 US; 14,742 Canada; 5,413 Export) affected by this recall.

NOTE: To verify or determine if a particular vehicle is affected by this recall (or any other recall), you should enter the Vehicle Identification Number into the VIN search field in eWarranty, and the screen will display any open recall.

If a “Dealer Listing” is enclosed it identifies the vehicles that were sold or shipped to your dealership. Be sure to check the eWarranty Vehicle Detail screen before performing the recall to verify that the recall is still open.

REPAIR:

The recall repair will consist of replacing circuit breakers with fuses and correcting the fuse label using overlay decals.

TIME ALLOWANCE:

0.3 hour per vehicle

Note: If the recall repair is the only repair being administered, then a take charge time allowance of 0.3 hrs can be claimed.

PART ORDERING PROCEDURES:

Parts for this recall should be ordered through Volvo Trucks North America Dealer Communication System. The following information is required to place an order:

1. Your dealer account number, and
2. Volvo part numbers – see below

PARTS REQUIRED:

Description	Part Number	Qty per truck
Label	21124315	1 per truck
20 amp fuse	3968162	Maximum 1 per truck
25 amp fuse	3968163	Maximum 4 per truck
30 amp fuse	3968164	Maximum 1 per truck

NOTE IMPORTANT CHANGE:

Parts should be ordered CLASS THREE (3)! On class three orders, Volvo Trucks North America pays for all shipping costs; therefore, Dealer Claims MUST NOT include shipping costs.

In the event where a dealer does not have the part in stock and has a vehicle that requires the recall, the dealer should order the part CLASS ONE (1) to ensure the quickest possible delivery. Since dealers may be responsible for the shipping cost on class one orders, **the dealer can include the expense of shipping in the claim if applicable.**

The parts listed for use in this recall can be claimed at the dealer's warranty rates of record at the date and time the claim is submitted according to the guidelines identified under the heading "*Claims for Credit*".

DEALER PARTS INVENTORY:

Dealer parts inventory is not affected by this recall.

REMOVED PARTS:

The removed parts are to be scrapped locally.

CLAIMS FOR CREDIT:

Expenses associated with the performance of this recall will be reimbursed based on the guidelines identified in this bulletin, and section 2-39 of the Warranty Manual, Policies and Procedures and chapter 20 of the Parts Operations Manual.

CLAIM CODING INFORMATION:

Authorization Number: RVXX0707

Causal Part Number: 20378002

STANDARD REPAIR CODES AND TIME:

Repair: 37220-0-02 (0.3 hour)

Take charge time (if applicable): 17003-0-01 (0.3 hour)

IMPORTANT NOTE: Claims for a recall repair **MUST** be submitted within 2 working days from the repair date.

OWNER RECALL RESPONSE CARD:

The "Owner Recall Response Card" is to provide the vehicle owner with a convenient way to notify Volvo Trucks North America of changes affecting the ownership of the subject vehicle. The owner recall response card is not intended for dealer usage other than to assist you in the preparation of the repair orders necessary to perform the applicable recall on the subject vehicle. Please do not use the card as a way to inform Volvo Trucks North America that the vehicle has been inspected or modified. Your DCS claim on line is the appropriate means of informing Volvo Trucks North America that the vehicle has been inspected or modified.

DEALER RECALL RESPONSIBILITY:

Dealers are to perform the recall on all vehicles subject to the recall at no charge to the owner regardless of mileage, age of vehicle, or ownership from this time forward. Whenever a vehicle subject to this recall is taken into or is in your vehicle inventory or dealership for service, we strongly recommend you make every effort to perform the recall correction before the vehicle is sold or released to the owner.

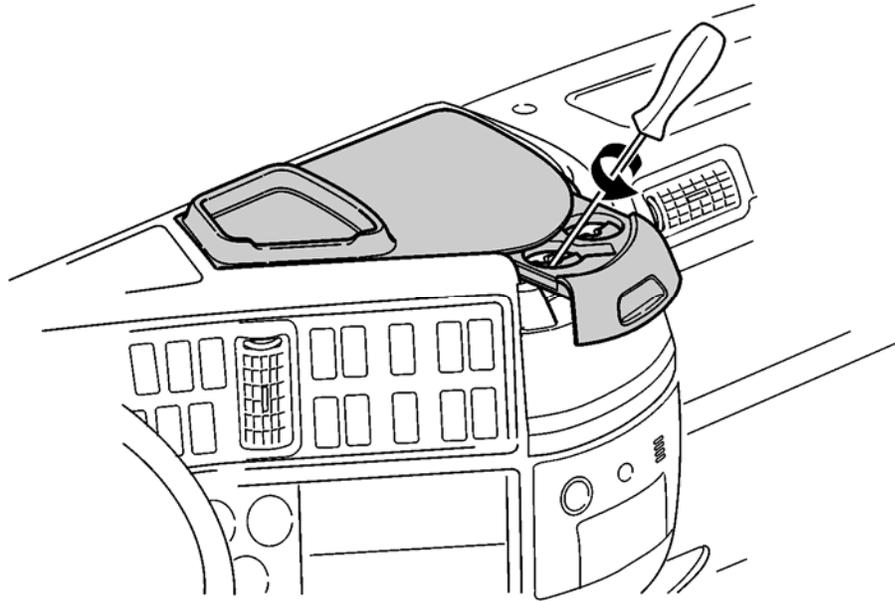
IMPORTANT NOTICE:

Please note that the National Traffic and Motor Vehicle Safety Act requires that the owner's vehicle(s) be corrected at no charge and within a reasonable time after parts are available to you. The law states that failure to repair a vehicle within sixty (60) days after tender for repair shall be a prima facia evidence of unreasonable time. However, circumstances of a particular situation may reduce the sixty-day period. If an owner's vehicle is not repaired within a reasonable time, he or she may be entitled, without charge, to a reasonable equivalent vehicle or refund of the purchase price, less reasonable allowance for depreciation.

REPAIR INSTRUCTION, Light Control Module Circuit Breaker Replacement:

You must read and understand the precautions and guidelines in Service Information, group 30, "General Safety Practices Electrical and Electronics" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training

1. Park the vehicle on a level surface, block the wheels, and place the transmission in neutral.
- 2.



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Remove the fuse and relay center cover.

3.

FUSE AND RELAY CENTER

<p>FUSES</p> <ul style="list-style-type: none"> F1 5 DOOR CONTROL SW/CLAMP POWER HERRAPS F2 10 STOPPING WHEEL HEDDLE/PHOTO ION F3 20 AIR/REVERSE/STOPPING WHEEL HEDDLE/PHOTO ION F7 30 DRIVER WINDOW/HEATED HERRICA F8 20 PASSENGER WINDOW F9 30 NOT USED F10 30 1-SHIFT POWER F11 30 TRIP A START F12 30 C.B. LIGHT CONTROL MODULE 1 F13 30 TRAILER PARK LAMPS F10 C.B. LIGHT CONTROL MODULE 2 F11 15 BATTERY DISCHARGE REL-1 F11 5 SECONDARY INSTR. CLUSTER F12 15 ROAD RELAY (CH-2)/DIAGNOSTIC TOOL F13 5 VEHICLE LINK F14 10 ELECTRONIC CONTROL SUSPENSION/SPRNG F15 30 KEY SWITCH BATTERY F16 30 LIGHT CONTROL MODULE 3 F17 30 BUNK HERRIC CLUSTER FIN F18 5 ISLE HERRIC/STOP A START F19 20 TRAILER PARK LAMPS F20 10 INDICATOR BATTERY F21 5 CLIMING ENGINE DIRECT IGNITION F22 20 HEATED FUEL FILTER F23 10 CLIMATE CONTROL IGNITION F24 5 INSTRUMENT CLUSTER F25 20 HEATED SEAT F26 20 WINDSHIELD WIPER F27 10 INTER POLE/HEATER WHEEL DIFFERENTIAL LOCK F28 5 SUPPLEMENTAL RESTRAINT SYSTEM F29 15 CAMERA PREP/BODY BUILDER ION-2 F30 15 SKID PLUM LAMPS LH F31 10 TRUCK LOCK (CH-4)/CENTRAL TIRE INFLATION F32 15 SKID PLUM LAMPS RH F33 15 AIR OVERHEAT SWIRN VALVE F34 15 OILCRA SENT IN F35 15 OILCRA SENT LH F36 15 VEHIC F38 5 ELECTRONIC CONTROL SUSPENSION F37 5 LIGHTING-CENTRAL LOCK (H-H/LE WENT) F39 15 OBRACK IGNITION F40 5 ISLE HERRIC/STOPPING WHEEL HEDDLE/PHOTO ION F41 5 NOT USED F42 30 LIGHT CONTROL MODULE 5 F43 30 TRAILER STOP LAMPS 	<p>RELAYS</p> <ul style="list-style-type: none"> R1 ION ACTIVE DURING CRANKING R2 POWER RELAY ACCESSORY R3 TRAILER STOP LAMPS R4 ENGINE NOT SYSTEM POWER R5 POWER RELAY ION 1 R6 TRAILER PARK LAMPS R7 POWER TAKE OFF ION 2 R8 POWER RELAY ION 3 R9 TRAILER HERRIC LAMPS R10 CITY HORN R11 DOOR-DOOR LAMPS R12 INTERMITTENT WIPER R13 STRIKE ENGINE R14 LIFT AXLE / REVERSE SIGNAL R15 NOT USED R16 ALTRIC THROTTLE DISCONNECT R17 REVERSE THROTTLE DISCONNECT R18 NOT USED R19 ALLISON HERRIC R20 ISLE MANAGEMENT IGNITION R21 POWER RELAY BATTERY R22 ISLE HERRIC ION DURING CRANKING <p style="text-align: center;">EXPANSION</p> <ul style="list-style-type: none"> R1-1 F11 SEC INSTR. CLUSTER BATT. R1-2 F12 ROAD RELAY PWR. R1-3 F30 ROOF SICK BATT. R1-4 F31 TOUCH LOCK ION R1-5 F34 ROAD RELAY ION R1-6 F36 SEC INSTR. CLUSTER ION 	<p>EXTERNAL RELAYS</p> <ul style="list-style-type: none"> R11 ROOF STOP R111H ALLISON BODY BUILDER HERRIC R12 ALLISON BODY BUILDER HERRIC R13 ULTRA SHIPT/1-SHIFT R14 NOT USED R15 NOT USED R16 POWER UNDER COOL R17 POWER UNDER UP-SPIN R18 LIGHT CONTROL MODULE INPUT R19 SEC BATTERY RELAY R20 BATTERY DETECTION R21 POWER HERRIC CLUSTER R22 SKID PLUM LH LAMP R23 SKID PLUM RH LAMP R24 12V DASH POWER OUTLET R25 ENGINE COOL LAMPS R26 CB POWER STILO R27 BATTERY INFLATION STATUS R28 JAWLLARY SWITCHES R29 ALTRIC LAMP SWITCHES R30 12V OUTLET OVERHEAT
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WARNING

ALL FUSES MUST BE REPLACED WITH THE SAME AMPERAGE AND PART NUMBER. REPLACING WITH A FUSE OF A DIFFERENT AMPERAGE OR PART NUMBER MAY RESULT IN ELECTRICAL CIRCUIT OVERHEATING AND POSSIBLY FIRE.

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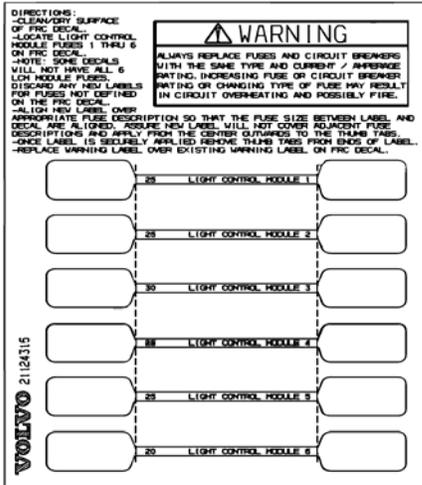
Check fuse decal to identify fuse positions used for Light Control Module, which are identified as Light Control Module 1, Light Control Module 2, Light Control Module 3, Light Control Module 4, Light Control Module 5, and Light Control Module 6. Important Note: some vehicles do not contain all six (6) light control module positions; for example Light Control Module 4 may not be listed on the decal.

If circuit breakers are found in any of these positions, replace them with fuses per the table below. If fuses are found in any of these positions, verify that the amperage is correct per the table below, and replace the fuses if they are not the correct amperage.

Position	Amperage	Part Number
Light Control Module 1	25A	3968163
Light Control Module 2	25A	3968163
Light Control Module 3	30A	3968164
Light Control Module 4	25A	3968163
Light Control Module 5	25A	3968163
Light Control Module 6	20A	3968162

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Label Part Number 21124315

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After replacing the circuit breakers, the fuse identification label must be corrected. Peel the replacement decal from the backing using the end tabs. While holding the end tabs apply the center strip of the decal to the appropriate fuse number (do not stick the end tabs to the decal). After the decal has been positioned pull the end tabs off. Repeat this process for the remaining LCM circuits. Depending on production date there will be between 3 and 6 LCM circuits to be corrected.

FUSES		FUSE AND RELAY CENTER			
F1	5	DOOR CONTROL PANEL/POWER MIRRORS	F10	25	TRAILER MARKER LAMPS
F2	10	STEERING WHEEL MODULE/RADIO IGN	F11	5	SECONDARY INSTR. CLUSTER
F3	25	AMPLIFIER/STEERING WHEEL MODULE/RADIO IGN	F12	15	ROAD RELAY (BI-2)DIAGNOSTIC TOOL
F4	20	DRIVER WINDOW/HEATED MIRROR	F13	5	VOLVO LINK
F5	20	PASSENGER WINDOW	F14	10	ELECTRONIC CONTROL, SUSPENSION/SPACE
		NOT USED	F15	30	KEY SWITCH BATTERY
			F16	30	LIGHT CONTROL MODULE 3
			F17	30	BUNK HVAC BLOWER FAN
			F18	5	IDLE MANAGEMENT (TEMP A START)
			F19	20	TRAILER PARK LAMPS
			F20	10	RADIO/CLUSTER BATTERY
			F21	5	CHANGING ENGINE DIRECT IGNITION
			F22	20	HEATED FUEL FILTER
			F23	10	CLIMATE CONTROL IGNITION
			F24	5	INSTRUMENT CLUSTER

FUSES		FUSE AND RELAY CENTER			
F1	5	DOOR CONTROL PANEL/POWER MIRRORS	F10	25	TRAILER MARKER LAMPS
F2	10	STEERING WHEEL MODULE/RADIO IGN	F11	5	SECONDARY INSTR. CLUSTER
F3	25	AMPLIFIER/STEERING WHEEL MODULE/RADIO IGN	F12	15	ROAD RELAY (BI-2)DIAGNOSTIC TOOL
F4	20	DRIVER WINDOW/HEATED MIRROR	F13	5	VOLVO LINK
F5	20	PASSENGER WINDOW	F14	10	ELECTRONIC CONTROL, SUSPENSION/SPACE
		NOT USED	F15	30	KEY SWITCH BATTERY
			F16	30	LIGHT CONTROL MODULE 3
			F17	30	BUNK HVAC BLOWER FAN
			F18	5	IDLE MANAGEMENT (TEMP A START)
			F19	20	TRAILER PARK LAMPS
			F20	10	RADIO/CLUSTER BATTERY
			F21	5	CHANGING ENGINE DIRECT IGNITION
			F22	20	HEATED FUEL FILTER
			F23	10	CLIMATE CONTROL IGNITION
			F24	5	INSTRUMENT CLUSTER

RELAYS		EXTERNAL RELAYS	
R1	RELAY ACTIVE DURING PARKING	R10	RELAY USED
R2	TRAILER PARK LAMP	R11	RELAY USED
R3	ENGINE "ON" RELAY	R12	RELAY USED
R4	TRAILER PARK LAMP	R13	RELAY USED
R5	TRAILER PARK LAMP	R14	RELAY USED
R6	TRAILER PARK LAMP	R15	RELAY USED
R7	TRAILER PARK LAMP	R16	RELAY USED
R8	TRAILER PARK LAMP	R17	RELAY USED
R9	TRAILER PARK LAMP	R18	RELAY USED

WARNING	
ALWAYS REPLACE FUSES AND CIRCUIT BREAKERS WITH THE SAME TYPE AND CURRENT / AMPERAGE. RATING, INCREASING FUSE OR CIRCUIT BREAKER RATING OR CHANGING TYPE OF FUSE MAY RESULT IN CIRCUIT OVERHEATING AND POSSIBLY FIRE.	

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5.

FUSE AND RELAY CENTER

FUSES		RELAYS	
F1 5	IGNITION CONTROL MODULE POWER	R1 1	IGNITION ACTIVE DURING CRAWLING
F2 10	DRIVING WHEEL HOLE/SHOCK IGN	R2 2	POWER RELAY ACCESSORY
F3 25	AWP (IF EQUIPPED) WHEEL HOLE/RADIO IGN	R3 3	TRAILER STOP LAMP
F4 20	DRIVING WHEEL/WEAR HORN	R4 4	ENGINE RET SYSTEM FUELER
F5 15	NOT USED	R5 5	POWER RELAY IGN 1
F6 30	1-GHIFT POWER	R6 6	TRAILER BRAKE LAMP
F7 25	IGNITION CONTROL MODULE 1	R7 7	POWER TAKE OFF
F8 5	IGNITION CONTROL MODULE 2	R8 8	POWER RELAY IGN 2
F9 15	OUTLINE POSITIONING (B1-1)	R9 9	TRAILER POWER LAMP
F10 5	SECONDARY WIPER CLUSTER	R10 10	CITY HORN
F11 15	ROAD RELAY (B1-1) (DIAGNOSTIC TOOL)	R11 11	DOOR-OPEN LAMP
F12 5	VOLVO LINK	R12 12	INTERIM STOP LAMP
F13 10	ELECTRONIC CONTROL SUBSTRATION/ONSTAR	R13 13	START ENGINE
F14 30	KEY SWITCH BATTERY	R14 14	LIFT LAMP / INVERSE SIGNAL
F15 20	IGNITION CONTROL MODULE 3	R15 15	NOT USED
F16 30	BLANK WIPER BLADE (P4)	R16 16	NOT USED
F17 30	BLANK WIPER BLADE (P4) (START)	R17 17	NOT USED
F18 20	TRAILER PARK LAMP	R18 18	NOT USED
F19 10	FRONT COLLAPSE BATTERY	R19 19	NOT USED
F20 20	HEATED FUEL FILTER	R20 20	NOT USED
F21 10	CORNING ENGINE DIRECT IGNITION	R21 21	NOT USED
F22 5	INFLIGHT CLUSTER	R22 22	NOT USED
F23 20	HEATED SEAT	R23 23	NOT USED
F24 10	WIPER WASH FLUID	R24 24	NOT USED
F25 20	WIPER WASH FLUID	R25 25	NOT USED
F26 10	EXTRA ACCESSORY WHEEL DIFFERENTIAL LOCK	R26 26	NOT USED
F27 5	CLIMATE CONTROL ACTIVATION SYSTEM	R27 27	NOT USED
F28 15	CAMERA REPAIR BULB ION-2	R28 28	NOT USED
F29 10	SPIN FLUX LAMP (H)	R29 29	NOT USED
F30 15	TRUCK LOCK (B1-1) (VENTILATOR FAN INFLATION)	R30 30	NOT USED
F31 10	TRUCK FLUX LAMP (H)	R31 31	NOT USED
F32 15	AIR DRYER (VALVE)	R32 32	NOT USED
F33 15	POWER TRIP (H)	R33 33	NOT USED
F34 15	VOLVO	R34 34	NOT USED
F35 5	ELECTRONIC CONTROL SUBSTRATION	R35 35	NOT USED
F36 5	IGNITION CONTROL LOCK (H) (LOCK HEAT)	R36 36	NOT USED
F37 15	CORNING IGNITION	R37 37	NOT USED
F38 5	WIPER WASH FLUID	R38 38	NOT USED
F39 5	POWER TAKE OFF POWER TAKE OFF	R39 39	NOT USED
F40 10	NOT USED	R40 40	NOT USED
F41 30	IGNITION CONTROL MODULE 5	R41 41	NOT USED
F42 30	TRAILER STOP LAMP	R42 42	NOT USED

EXTERNAL

B1	TRUCK STOP
B2	TRUCK STOP
B3	TRUCK STOP
B4	TRUCK STOP
B5	TRUCK STOP
B6	TRUCK STOP
B7	TRUCK STOP
B8	TRUCK STOP
B9	TRUCK STOP
B10	TRUCK STOP
B11	TRUCK STOP
B12	TRUCK STOP
B13	TRUCK STOP
B14	TRUCK STOP
B15	TRUCK STOP
B16	TRUCK STOP
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B30	TRUCK STOP
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B32	TRUCK STOP
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B34	TRUCK STOP
B35	TRUCK STOP
B36	TRUCK STOP
B37	TRUCK STOP
B38	TRUCK STOP
B39	TRUCK STOP
B40	TRUCK STOP

EXPANSION

E1	TRUCK STOP
E2	TRUCK STOP
E3	TRUCK STOP
E4	TRUCK STOP
E5	TRUCK STOP
E6	TRUCK STOP
E7	TRUCK STOP
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E32	TRUCK STOP
E33	TRUCK STOP
E34	TRUCK STOP
E35	TRUCK STOP
E36	TRUCK STOP
E37	TRUCK STOP
E38	TRUCK STOP
E39	TRUCK STOP
E40	TRUCK STOP

DIRECTIONS

CLEAR OFF SURFACE OF FRC DECAL.
LOCATE LIGHT CONTROL MODULE FUSES 1 (F1) 5 ON FRC DECAL.
NOTE: SOME DECALS WILL NOT HAVE ALL 5 LIGHT CONTROL MODULE FUSES DISCARDED AND NEW LABELS FOR FUSES NOT DETACHED ON THE FRC DECAL.
REPLACE WARNING LABEL OVER EXISTING WARNING LABEL ON FRC DECAL.

APPROPRIATE FUSE DESCRIPTION SO THAT THE FUSE SIZE BETWEEN LABEL AND DECAL ARE ALIGNED. REMOVE NEW LABEL. WILL NOT COVER EXISTING FUSE DESCRIPTIONS. APPLY FROM THE CENTER OF FUSES TO THE CORNER TABS. (ONE LABEL IS SECRETLY APPLIED REMOVING TRUCK STOP FROM END OF LABEL.)
REPLACE WARNING LABEL OVER EXISTING WARNING LABEL ON FRC DECAL.

WARNING

ALWAYS REPLACE FUSES AND CIRCUIT BREAKERS WITH THE SAME FUSE RATED CURRENT / AMPERAGE RATING. INCREASING FUSE OR CIRCUIT BREAKER RATING OR CHANGING TYPE OF FUSE MAY RESULT IN CIRCUIT OVERHEATING AND POSSIBLE FIRE.

30 LIGHT CONTROL MODULE 1

25 LIGHT CONTROL MODULE 2

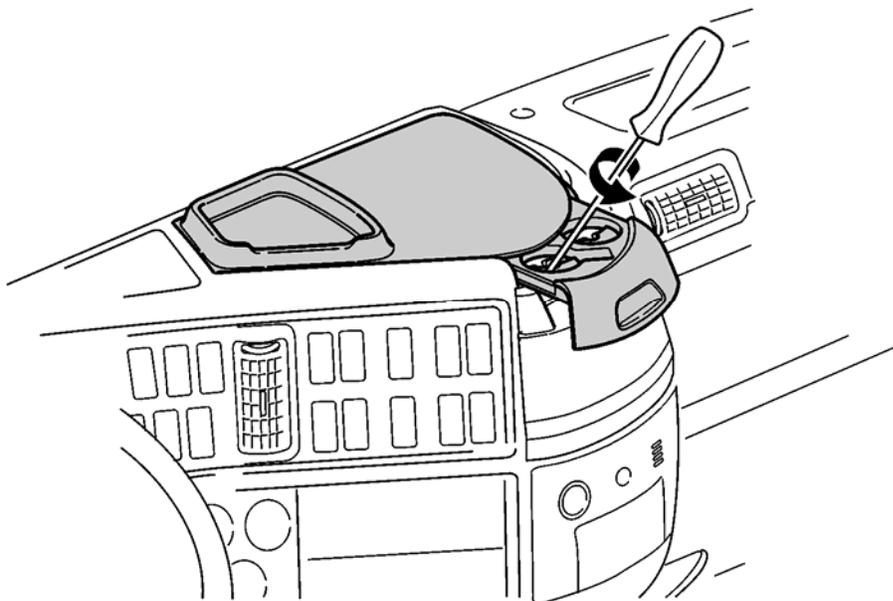
20 LIGHT CONTROL MODULE 3

15 LIGHT CONTROL MODULE 4

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After correcting the fuse label, apply the new Warning decal as shown above.

6.



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Reinstall the fuse and relay center cover.

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