

SAFETY RECALL

SR16-86B

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REVISION B: THIS REVISION SUPERSEDES PREVIOUS VERSION

All replaced parts must be returned to Prevost according to the Return Shipping Instruction – VBC bulletin number added.

12-VOLT POWER SOURCE RELAY REPLACEMENT 9700 (B13R)

MODEL YEAR(S) AND VEHICLE SERIAL NUMBERS (VIN) INVOLVED

NOTICE TO SERVICE CENTERS	
Verify vehicle eligibility by checking recall status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.	
Model	VIN
Volvo 9700 us/can Model Year : 2009 - 2017	Vehicles up to VIN 3CET2V22X H5182596 incl.
This recall does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this recall will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.	

DESCRIPTION

On the vehicles affected by this recall, it is necessary to replace one (1) and in some cases two (2) 12-volts power source relays.

The 12-volts power source relay(s) currently installed on the vehicle may fail, resulting in an engine shut down while driving. A new type of relay equipped with a coil that can hold a higher current must be installed to improve the vehicle reliability.

MATERIAL

Order kit # **SR16-86** which contains the following parts:

Part No.	Description	Qty
972079	SIX POINT SOCKET SCREW ST4,8*13 'TORX' ZN/FE	1
21244697	RELAY ISO MINI NO/NC, 24V 20A WITH RESISTOR (CARTIER MINI)	1
564218	RELAY ISO POWER N/O, 24V 40A WITH RESISTOR (CARTIER MAXI)	1
25332944	RETAINER (WALL BRACKET)	1
25371116	MAXI RELAY HOUSING, CONNECTOR (RELAY SOCKET)	1
25371117	CABLE TERMINAL, SIZE 6.35, AREA .5 - 1.5 MM2 (CAVITY 85 & 86)	2
25371118	CABLE TERMINAL SIZE 8, AREA 2.5 - 4 MM2 (CAVITY 30 & 87)	2

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FOUR SCENARIOS PRESENTING FOUR SOLUTIONS DEPENDING ON THE MANUFACTURING DATE (V.I.N.) AND TRANSMISSION MODEL

RANGE	WHAT TO DO
Model Year: up to 2013 Vehicles up to 3CET2S22XD5 <u>160297</u>	Relay K917: Replace existing relay K917 with relay p/n 21244697 (Cartier Mini) Relay K918: Replace existing relay K918 with relay p/n 564218 (Cartier Maxi). Refer to the following instruction.
Model Year: 2013 – 2015 From 3CET2S225D5 <u>160756</u> up to 3CET2V227F5 <u>168569</u>	Relay K918: Replace existing relay K918 with relay p/n 564218 (Cartier Maxi). Refer to the following instruction.
Model Year: from 2015 Equipped with Allison transmission From 3CET2V224F5 <u>169811</u>	Relay K919: Replace existing relay K919 with relay p/n 21244697 (Cartier Mini) Relay K918: Replace existing relay K918 with relay p/n 564218 (Cartier Maxi). Refer to the following instruction.
Model Year: from 2015 Equipped with I-Shift transmission From 3CET2V224F5 <u>169811</u>	Relay K918: Replace existing relay K918 with relay p/n 564218 (Cartier Maxi). Refer to the following instruction.

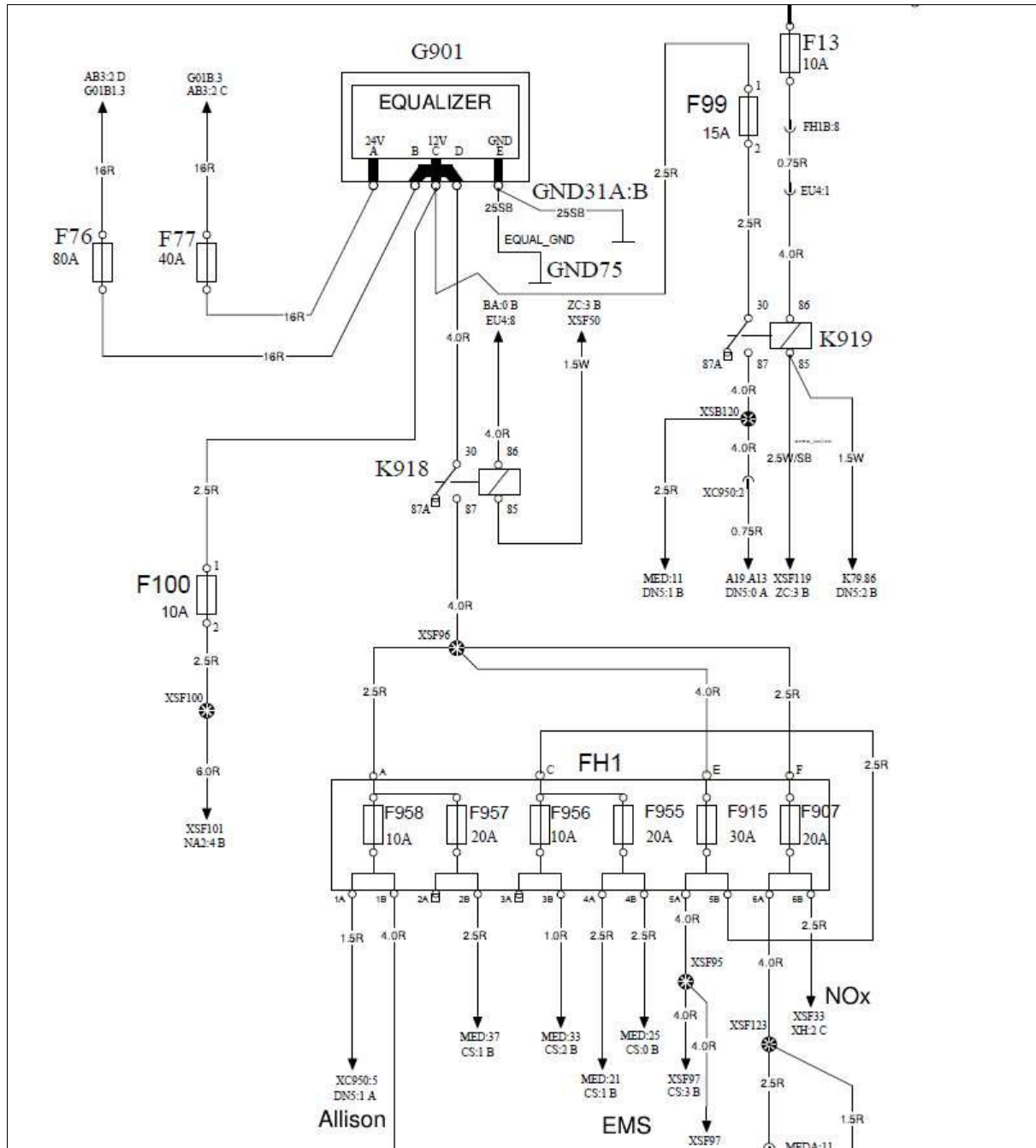




FIGURE 1: WIRING DIAGRAM SHOWING K918 & K919 – EQUIPPED WITH ALLISON TRANSMISSION

SPECIAL TOOLS

 <p>9808649</p> <p>terminal removal tool 9808649</p>	 <p>clamping/crimping tool 88890060</p>
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PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. In the battery box, set the battery cut-off switch to the OFF position prior to working on the vehicle.

- 1) Turn off electrical vehicle system, by following these steps:
 - Remove ignition key;
 - Turn off vehicle main switch in the dashboard;
 - Turn off battery switch;
 - Wait at least 30 seconds;
 - Disconnect **NEGATIVE** cable from vehicle battery,

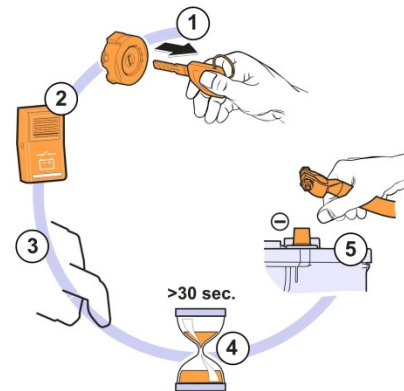


FIGURE 2

- 2) Identify the scenario applicable to the vehicle.
- 3) Locate the relays that are involved in accordance with the applicable scenario (one or two relays to be replaced).
- 4) Remove the existing relay and change it for a new relay in accordance with the scenario above. An easy adaptation is necessary when replacing relay K918. To do it, perform steps 5 up to 15.

- 5) Locate relay K918. See FIGURE 3 & FIGURE 4



FIGURE 3: For vehicles not equipped with I-START dual battery system (until **3CET2V42XG5176275**), find K918 at the right side of electrical distribution unit.



FIGURE 4 : For vehicles equipped with I-START dual battery system (from **3CET2V220G5177311**), find K918 at the starter batteries compartment.

- 6) Remove relay K918 from socket.
- 7) TIP: Identify wires of cavities 30 & 87 on a piece of masking tape. Remove the terminals from cavities 30 and 87 on the current socket of K918 using terminal removal tool and cut off the terminals.

terminal removal tool #9808649

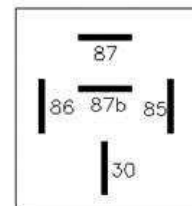


FIGURE 5

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- 8) Crimp terminal #25371118 on these wires using the clamping tool.

Clamping tool: 88890060

- 9) Identify wires of cavities 85 & 86. Remove the terminals from cavities 85 and 86 on the current socket of K918 using terminal removal tool and cut off the terminals.

- 10) Crimp terminal #25371117 on these wires using the clamping tool.

- 11) Connect each wire (30, 85, 86, 87) to its respective cavity in new relay socket #25371116.

- 12) Install relay # 564218.

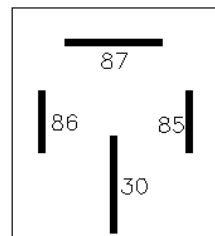
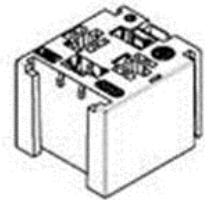


FIGURE 6

- 13) Install relay wall bracket #25332944 on the compartment wall using screw # 972079.



FIGURE 7: relay wall bracket #25332944

- 14) Mount the relay and socket assembly to the wall bracket.

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- 15) Turn on the vehicle. Follow these steps:
- Connect NEGATIVE cable in vehicle battery;
 - Turn on battery switch;
 - Turn on vehicle switch in the dashboard;
 - Insert vehicle key.

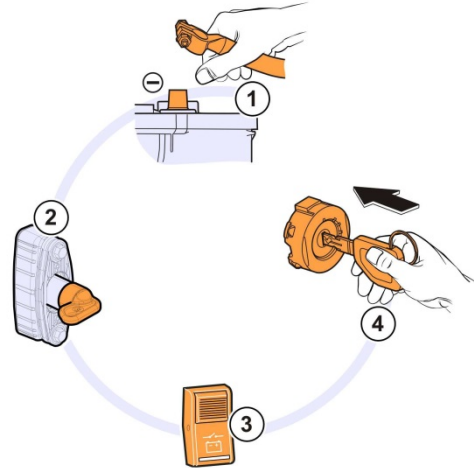


FIGURE 8

PARTS / WASTE DISPOSAL

All replaced parts must be returned to PrevoSt according to the Return Shipping Instructions available on <https://www.prevoStcar.com/content/warranty-documents> for full reimbursement. A copy of the warranty claim form must be enclosed with the shipment.

WARRANTY

This modification is covered by PrevoSt's normal warranty. We will reimburse you the parts and one hour (1.0) of labor upon receipt of the parts and a completed A.F.A. Please submit claim via our Online Warranty System, available at www.prevoStcar.com (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Safety Recall SR16-86".

OTHER

VBC Bulletin	C5170
Fail Code	06-09
Defect Code	09
Syst.Cond.	R
Causal Part	20374662

Access all our Service Bulletins on <http://prevoStparts.volvocars.com/technicalpublications/en/pub.asp> or scan the QR-Code with your smart phone.

E-mail us at technicalpublications_prev@volvo.com and type "ADD" in the subject to receive our warranty bulletins by e-mail.



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