

REVISION A Supercedes previous versions  
July 19,2013 Updated to latest software numbers

**TITLE: ACM PROGRAMMING & RELAY ADDITION**  
Prevost vehicles

## DESCRIPTION

On the vehicles affected by this bulletin, a relay needs to be added to allow the DEF to return to the tank after turning the key to the OFF position. In addition, the ACM & MCM need to be reprogrammed to the latest version.

## MODEL YEAR(S) AND VEHICLES INVOLVED

| VIN                                  |
|--------------------------------------|
| 2013 & 2014<br>All models With OBD13 |

*The above list of VIN was valid at the time of publishing this document. Please refer to SAP for most recent information about outstanding vehicles*

## MATERIAL NEEDED

| Part Number | Description   | Quantity |
|-------------|---|----------|
| -           | ***Order the following parts individually until kits below become available |          |
| 563337      | RELAY 12V SPDT W/RESISTOR   | 1        |
| 561183      | RELAY BASE  | 1        |
| 561181      | TAB TERMINAL  | 4        |
| 562346      | SOCKET TERMINAL   | 1        |
| 563624      | BUTT SPLICE   | 1        |
| 562806      | SOCKET TERMINAL 20-17   | 1        |
| 560083      | RING TERMINAL 3/8"  | 1        |
| -           | XLPE wire, various colors & gage. Refer to from-to list                     | A/R      |
| 068890      | KIT ELECTR. MODIF.R49 RJB H3 ***not yet available                           | 1        |
| 068892      | KIT ELECTR. MODIF.R49 RJB X3 ***not yet available                           | 1        |

## 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. Connect vehicle to battery charger.
2. Reprogram ACM to the latest software version

MSW - ACM2 MSW : 22211780

DATA - ACM2 PBC: 22211781

3. Add a relay (R49) in rear electrical compartment in the indicated location. Refer to images below.
4. Prepare patch harness according to best practices for harness & wire protection. If required refer to standard 10.4a available in BMS (<http://bms.buses.volvo.net/>).
5. Connect per instructions.
6. Re-program MCM to the latest version with VPG Prevost Vehicle Program Generator.

## FROM – TO LIST:

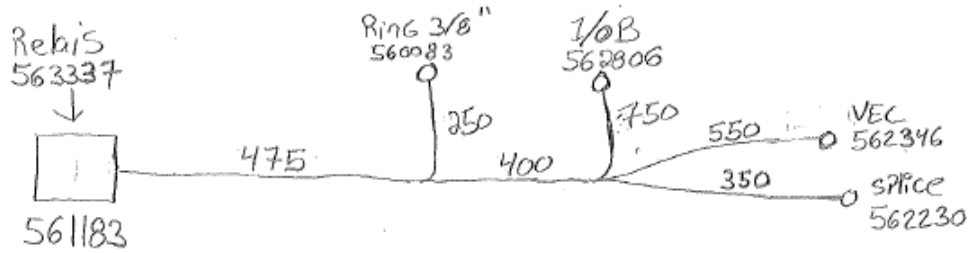
| H series |        |                |        |        |            |             |      |        |
|----------|--------|----------------|--------|--------|------------|-------------|------|--------|
| Wire     | From   | To             | End1   | End2   | Length(mm) | Length (in) | Gage | Color  |
| 24VD8C   | R49:30 | VECR 10:E      | 561181 | 562346 | 1425       | 56.1        | 12   | Red    |
| 24VD8    | R49:87 | splice:24VD8   | 561181 | 563624 | 1225       | 48.2        | 12   | red    |
| 425      | R49:86 | A51, J1:20     | 561181 | 562806 | 1625       | 64.0        | 16   | orange |
| 00B      | R49:85 | ELECTRONIC gnd | 561181 | 560083 | 725        | 28.5        | 16   | black  |
| X series |        |                |        |        |            |             |      |        |
| Wire     | From   | To             | End1   | End2   | Length(mm) | Length (in) | Gage | Color  |
| 24VD8C   | R49:30 | VECR 10:E      | 561181 | 562346 | 500        | 19.7        | 12   | Red    |
| 24VD8    | R49:87 | splice:24VD8   | 561181 | 563624 | 400        | 15.7        | 12   | red    |
| 425      | R49:86 | A51, J1:20     | 561181 | 562806 | 690        | 27.2        | 16   | orange |
| 00B      | R49:85 | ELECTRONIC gnd | 561181 | 560083 | 725        | 28.5        | 16   | black  |

### H series instructions

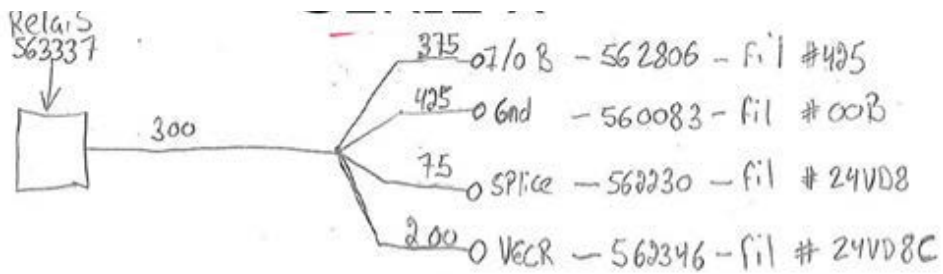
1. Connect patch harness to relay
2. Connect wire 00B to electronic ground post
3. Remove 24VD8 on VECR10:E and splice to new 24VD8 wire
4. Connect wire 24VD8C to VECR 10:E
5. Route wire 425 towards A51
6. Connect wire 425 to A51:J1:20

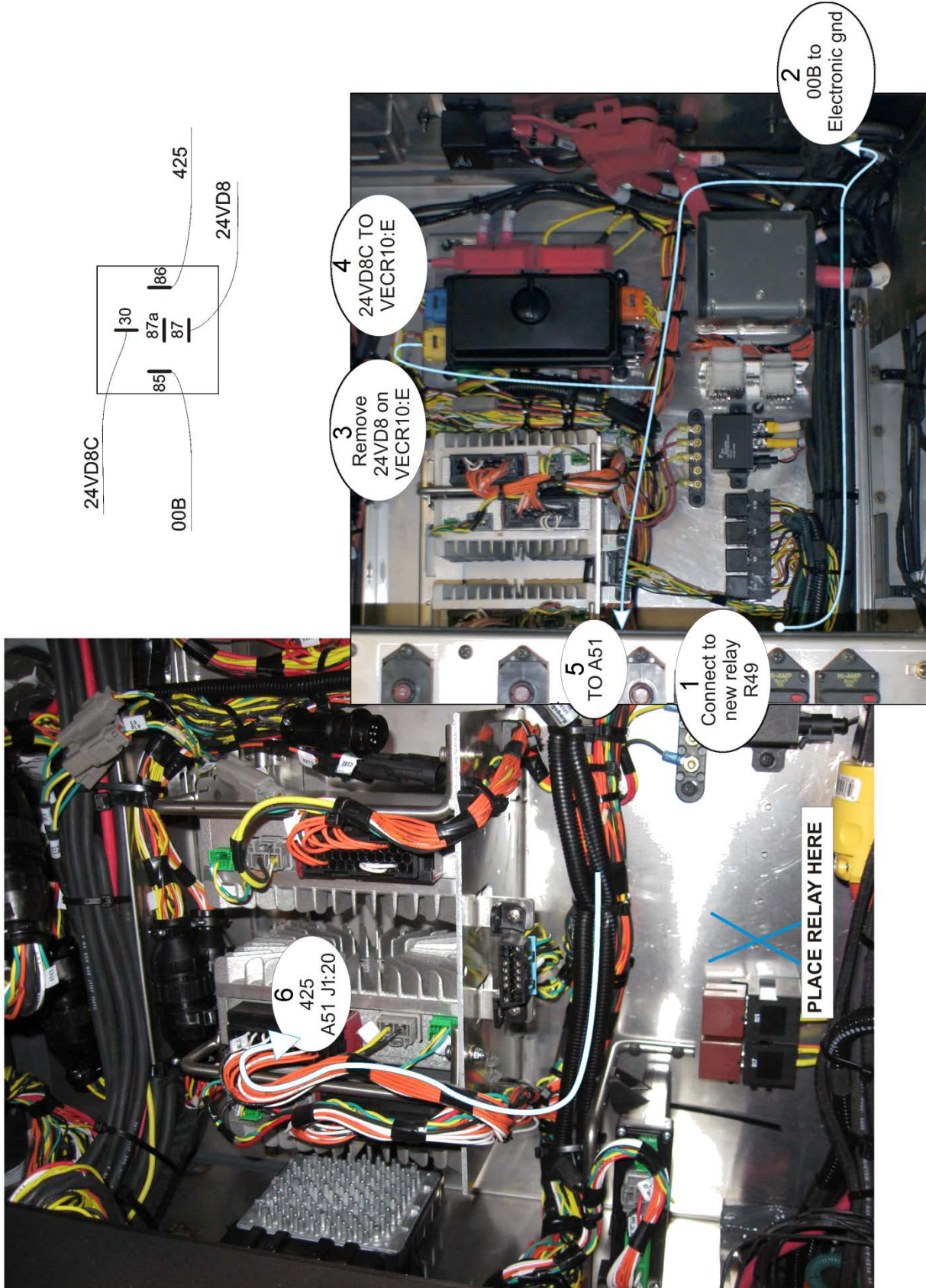
X series: photos & instructions to come

### H-SERIES for ref only.



### X-SERIES for ref only.





## PARTS / WASTE DISPOSAL

|   |
|---|
| Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal) |
|---|

## ESTIMATED TIME

The time required to perform this special bulletin is approximately one hour (1h).

## OTHER

|                  |          |
|------------------|----------|
| VBC Bulletin     | N/A      |
| Fail Code        | 04.04-1  |
| Defect Code      | 09       |
| System Condition | B        |
| Causal Part      | 21870087 |

Prevost engages in a continuous program of testing and evaluating to provide the best possible product. Prevost, however, is not committed to, or liable for updating existing products.