

# Service Manual Trucks

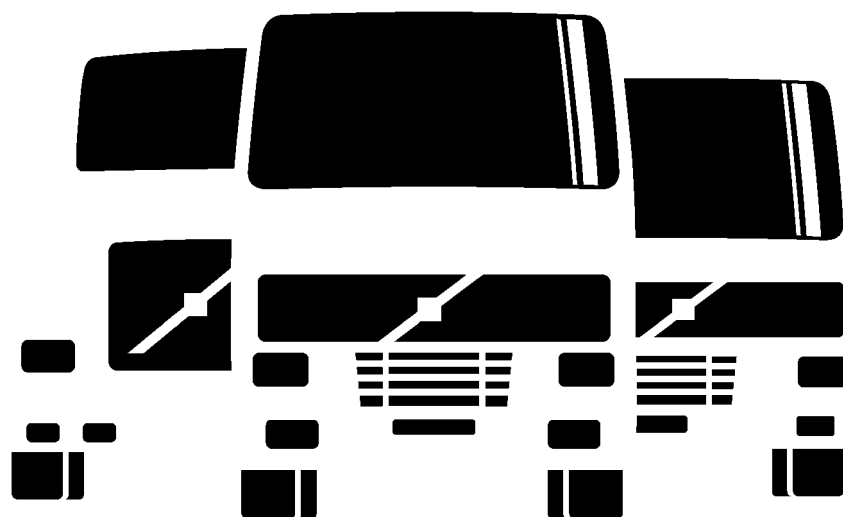
Group **37**

Electrical Schematic

Illustration Index

VN, VHD VERSION2, VT

From Build Date June 2005





# Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to October 2005.

The products are under continuous development. Vehicles and components produced after the above date may therefore have different specifications and repair methods. When this is believed to have a significant bearing on this manual, supplementary service bulletins will be issued to cover the changes.

The new edition of this manual will update the changes.

In service procedures where the title incorporates an operation number, this is a reference to an V.S.T. (Volvo Standard Times).

Service procedures which do not include an operation number in the title are for general information and no reference is made to an V.S.T.

Each section of this manual contains specific safety information and warnings which must be reviewed before performing any procedure. If a printed copy of a procedure is made, be sure to also make a printed copy of the safety information and warnings that relate to that procedure. The following levels of observations, cautions and warnings are used in this Service Documentation:

**Note:** Indicates a procedure, practice, or condition that must be followed in order to have the vehicle or component function in the manner intended.

**Caution:** Indicates an unsafe practice where damage to the product could occur.

**Warning:** Indicates an unsafe practice where personal injury or severe damage to the product could occur.

**Danger:** Indicates an unsafe practice where serious personal injury or death could occur.

**Volvo Trucks North America, Inc.**  
Greensboro, NC USA

**Order number: 20032392**

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# Illustrations

## Illustration Index, Wiring Harnesses

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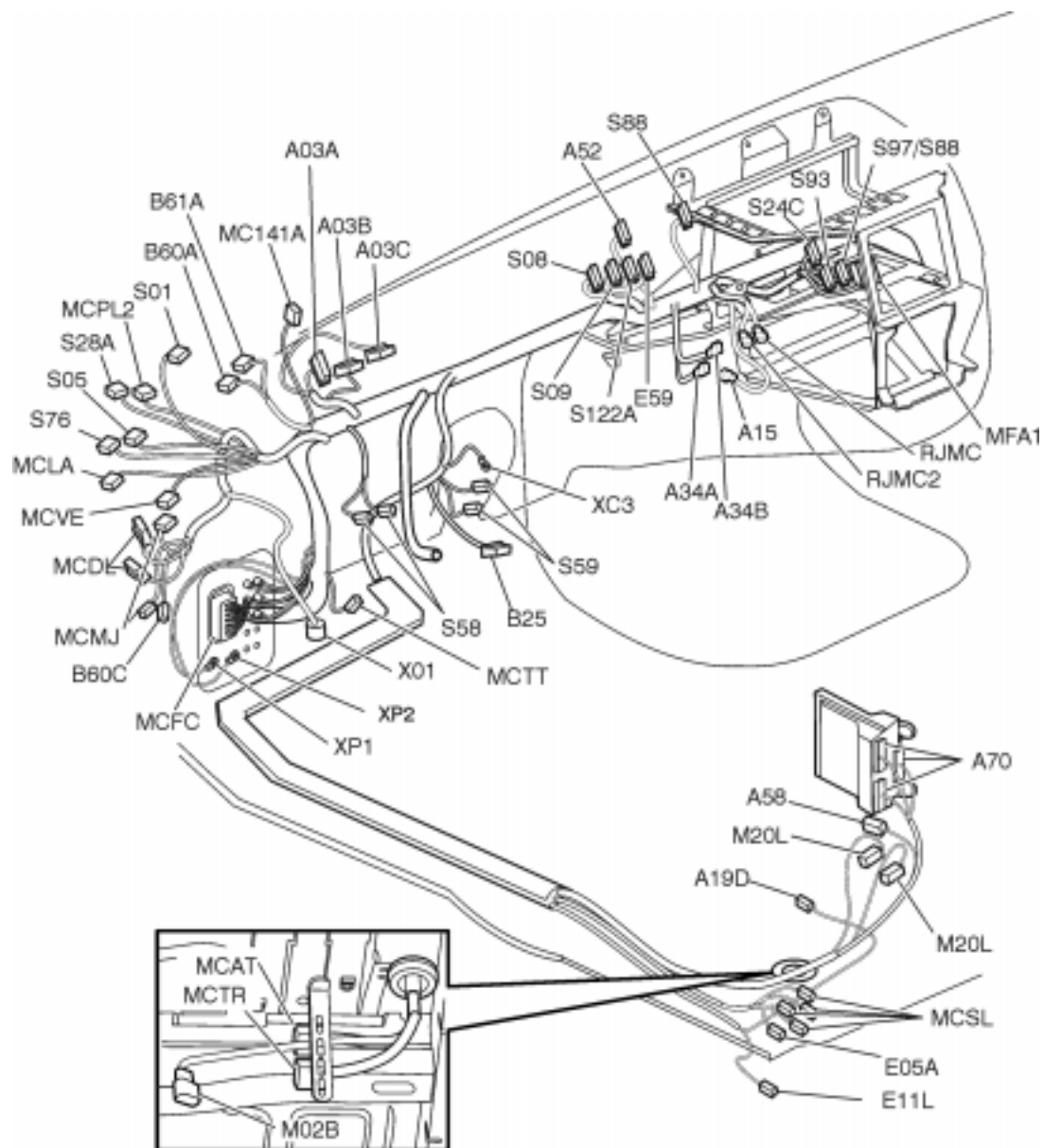
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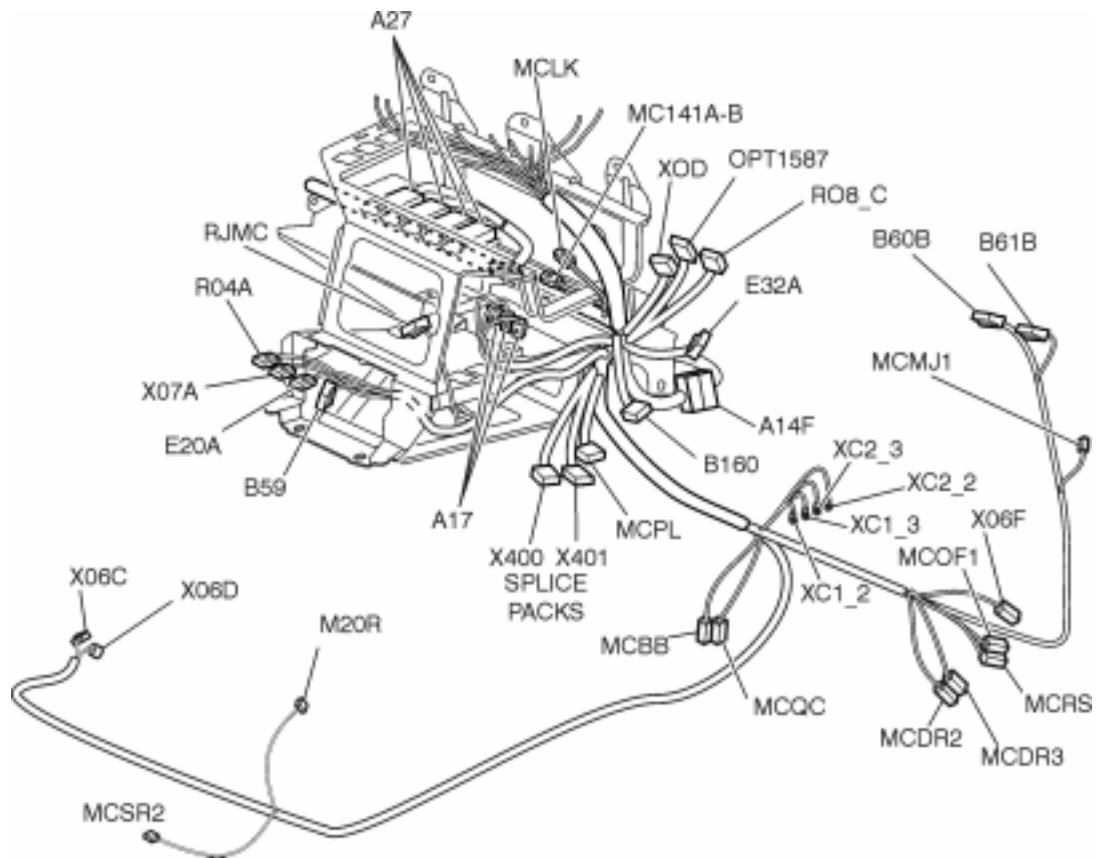
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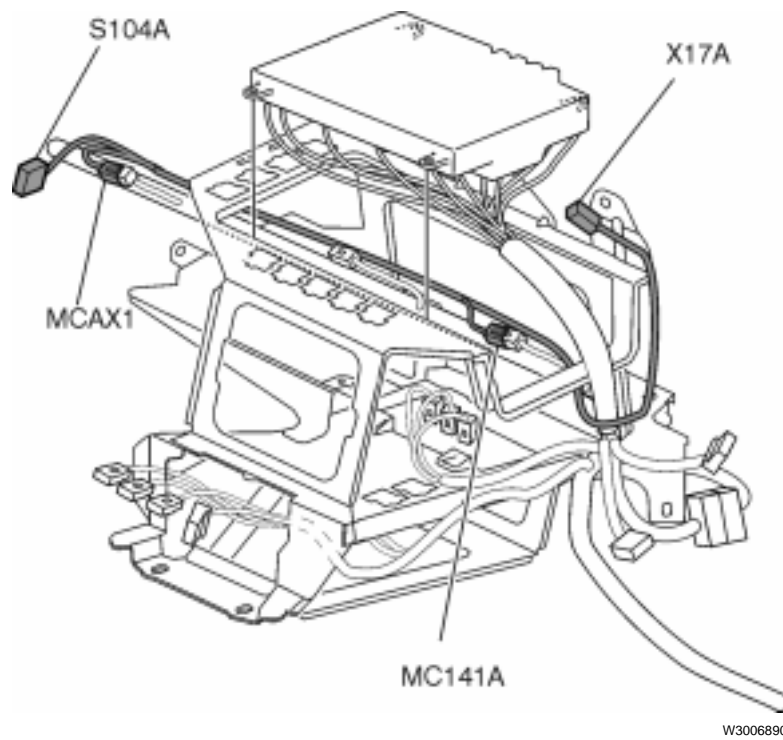
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## Fuse and Relay Center, Main Cab Harness 2

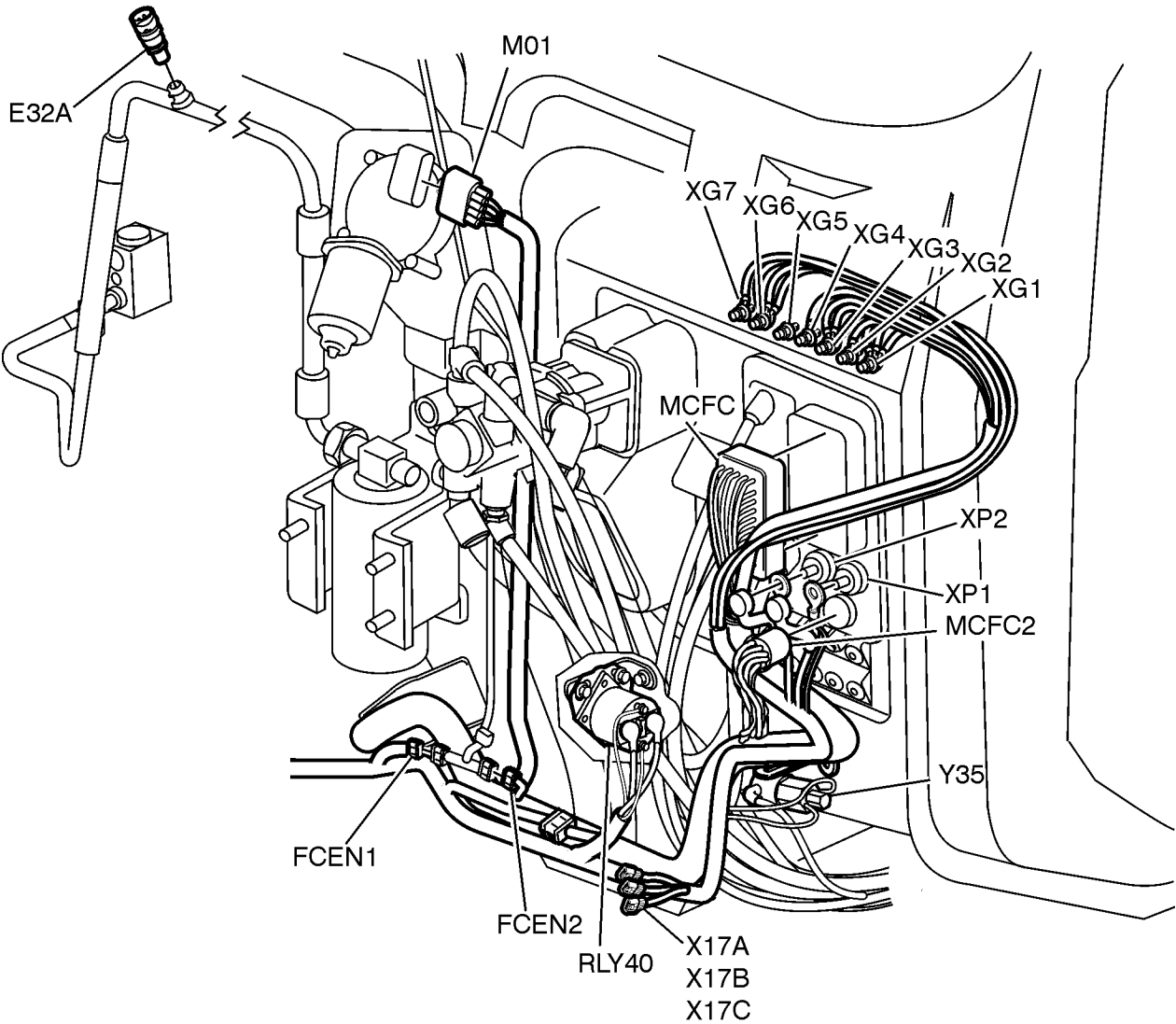


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## Aux. Switch Overlay

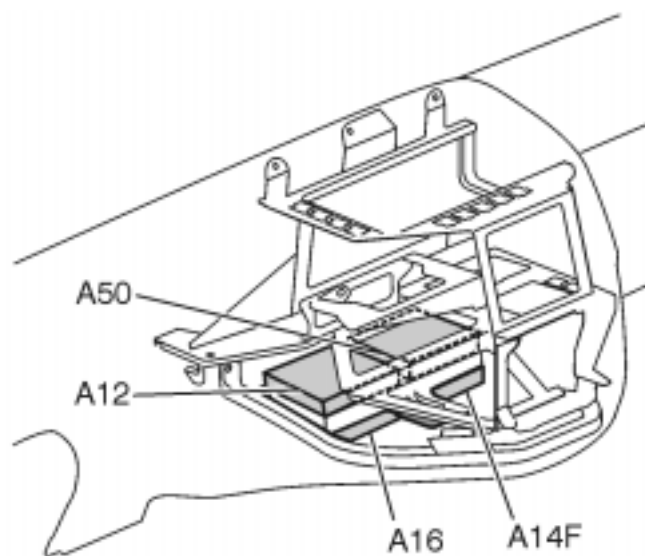


Cab Wiring Passthrough



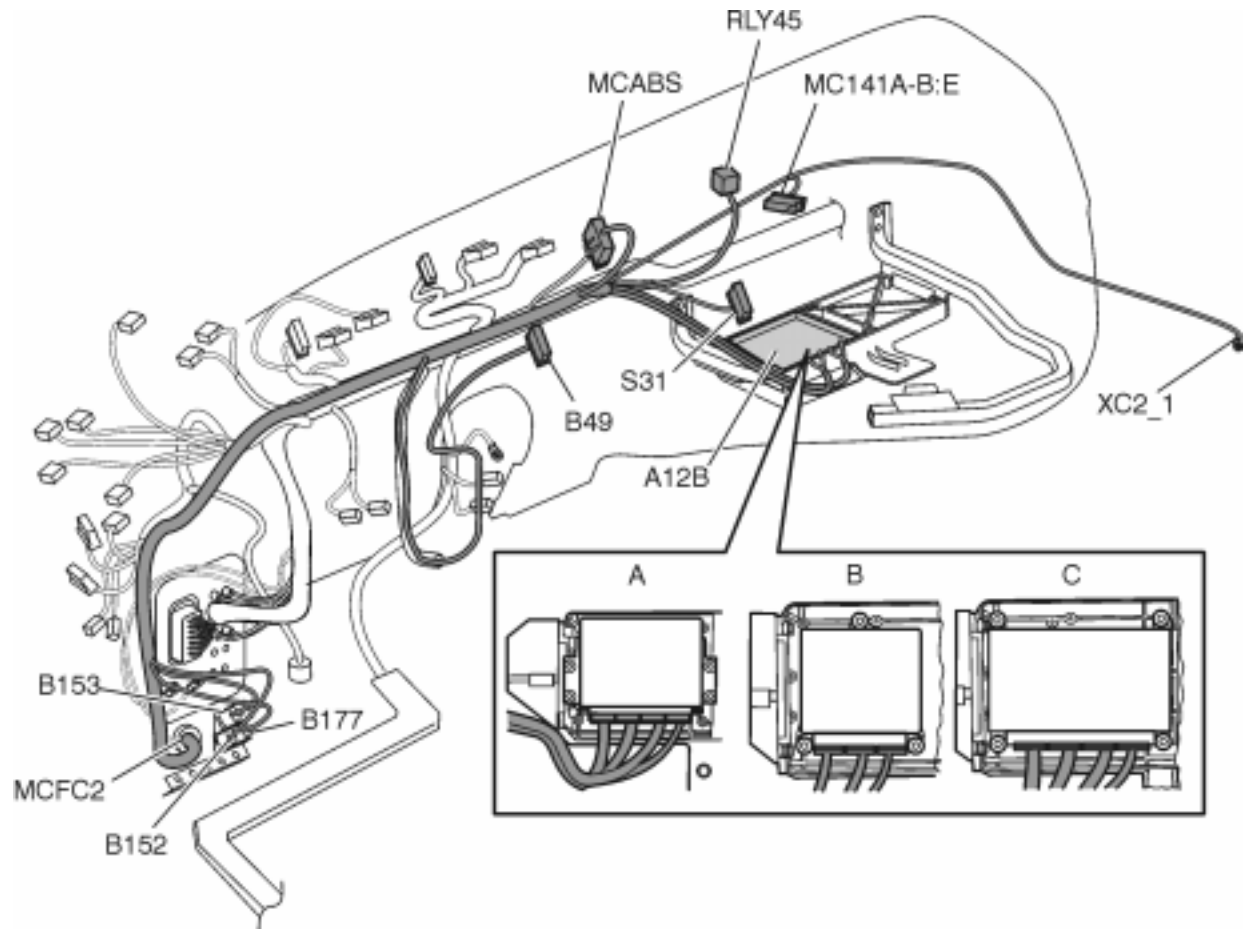
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## Modules



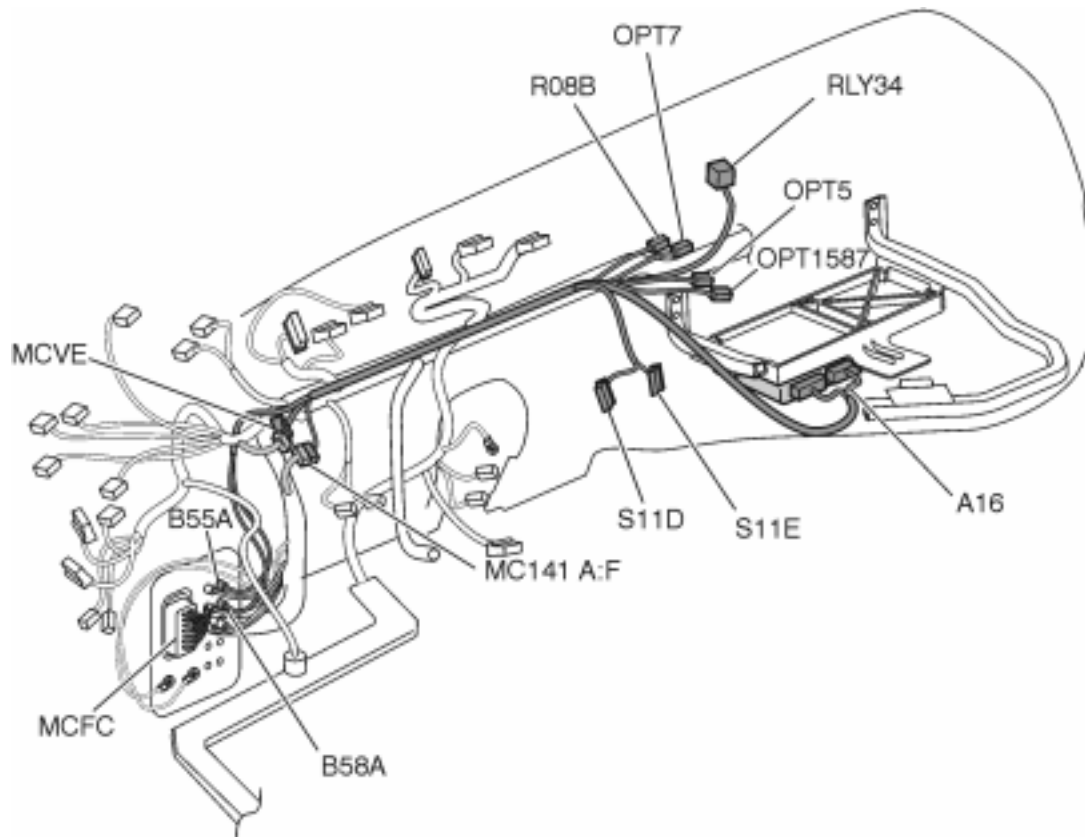
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## ABS Overlay



W3006884

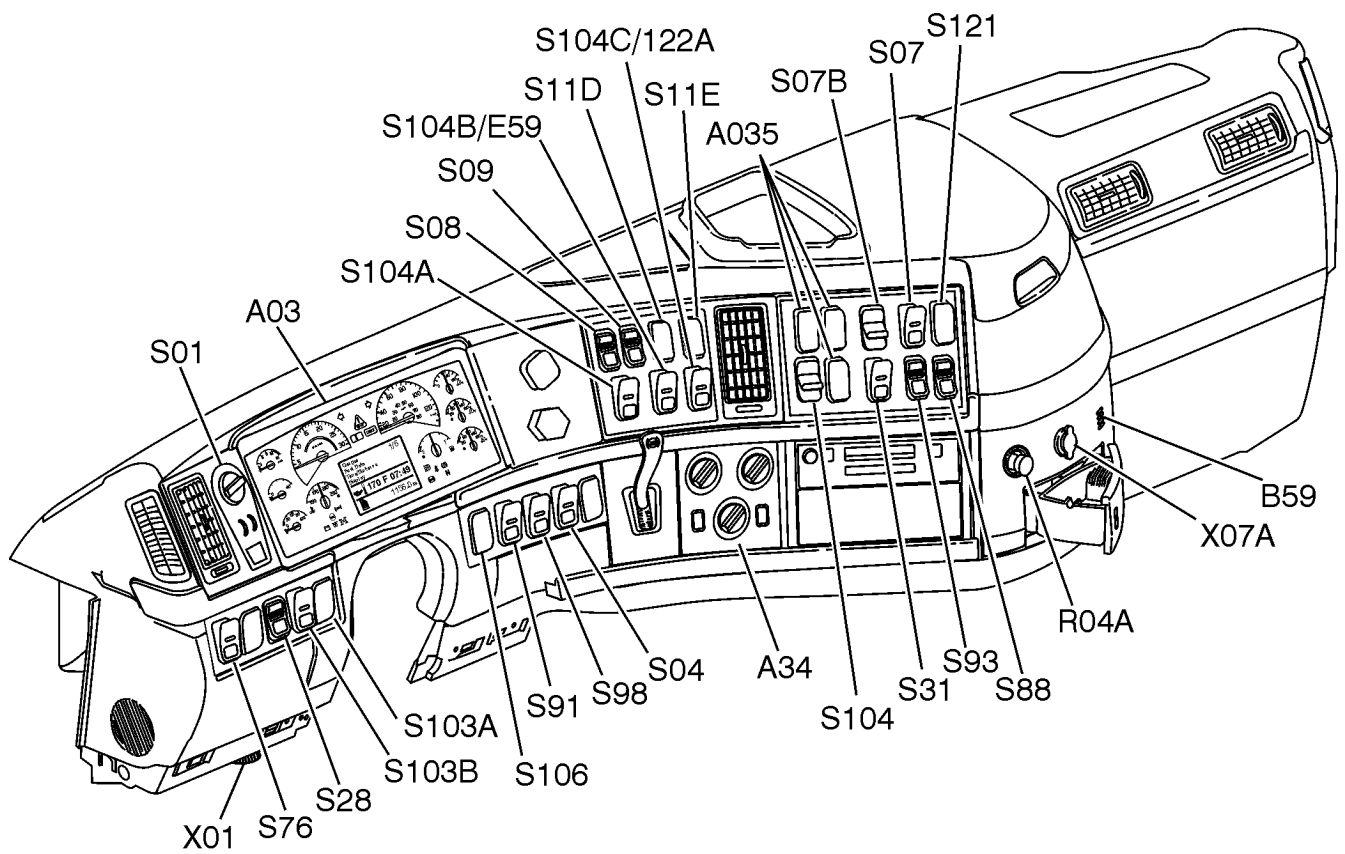
## ECS ECU Overlay



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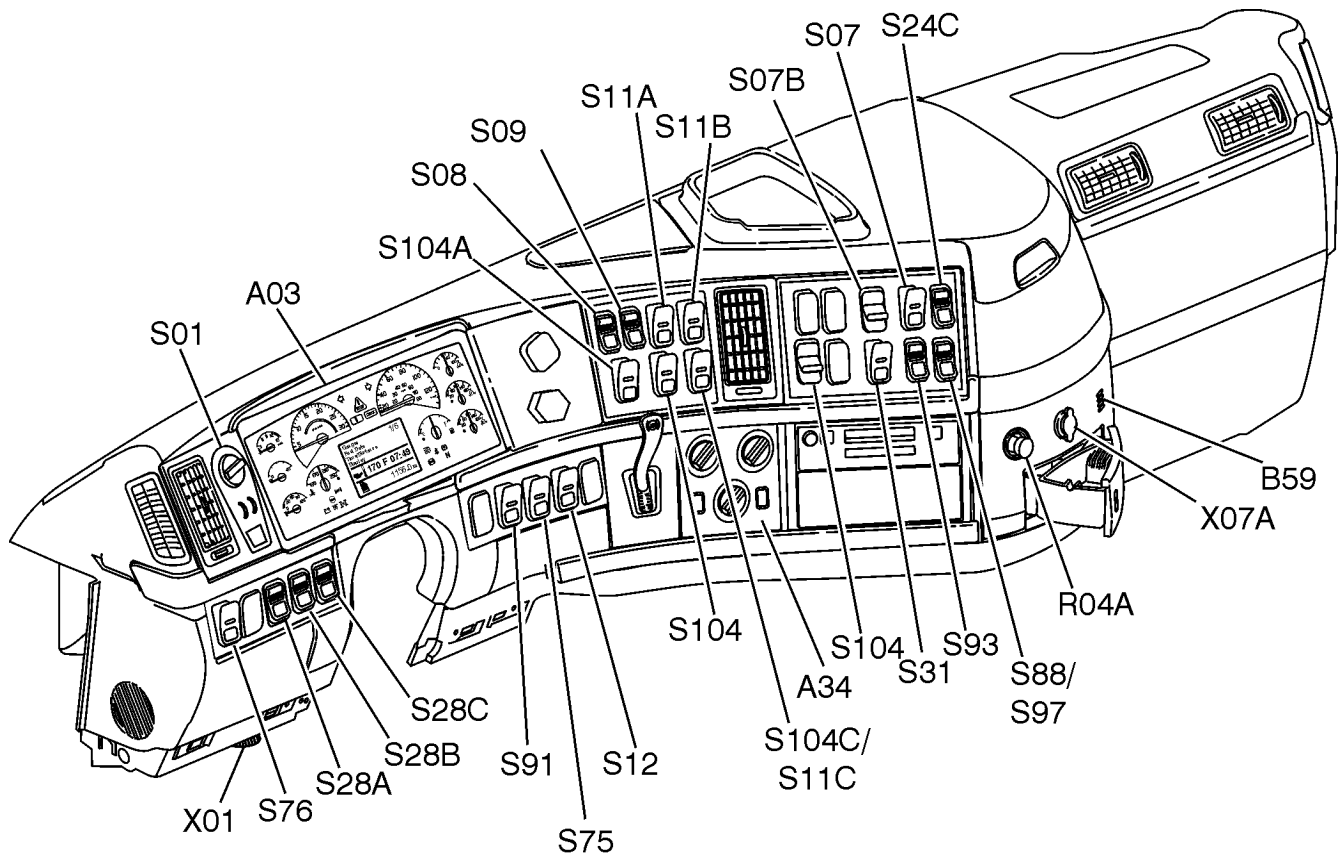


## Dash Switches, VN



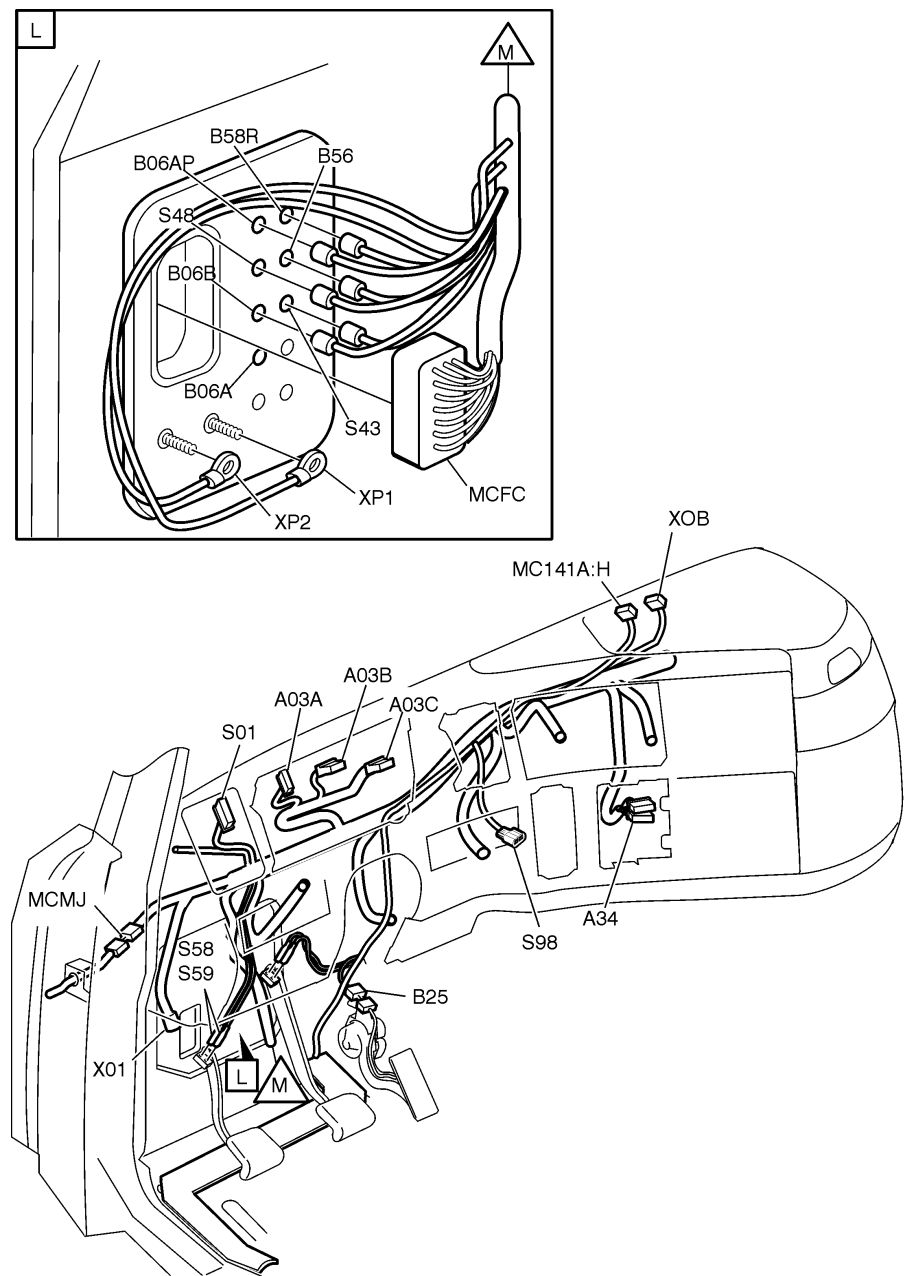
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## Dash Switches, VHD



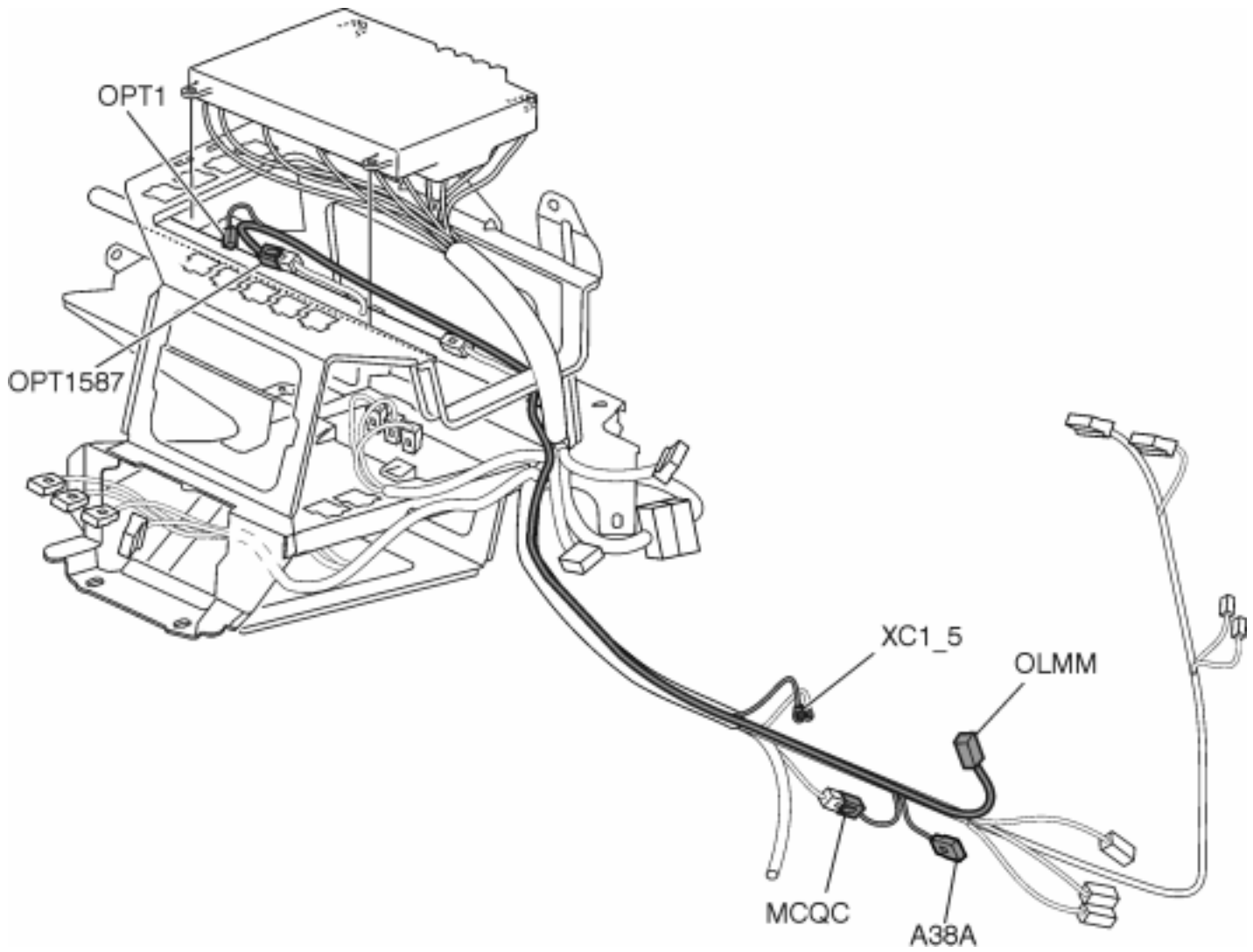
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Dash Harness and Cab Wiring Passthrough



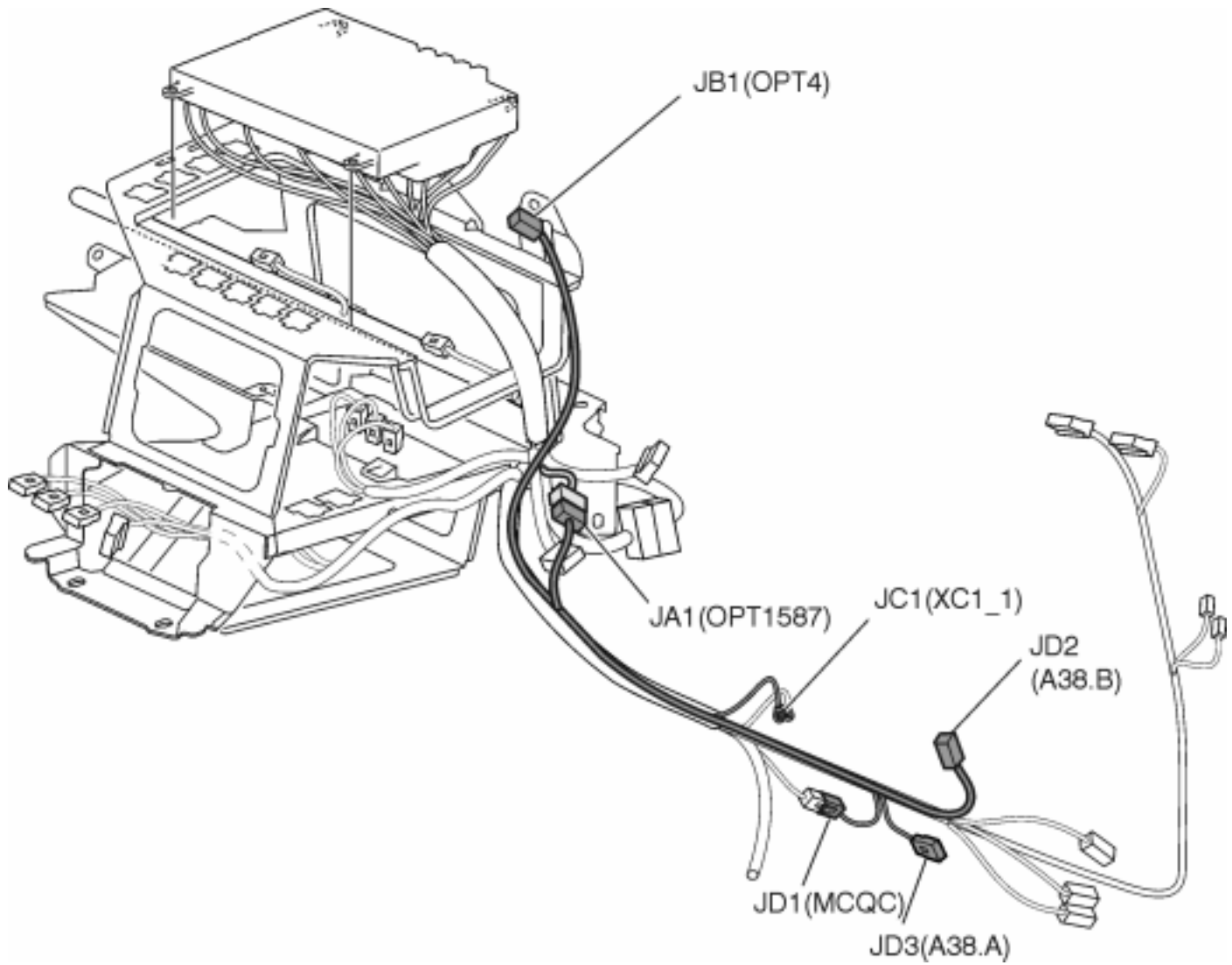
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## Dash Harness, Mobile Max



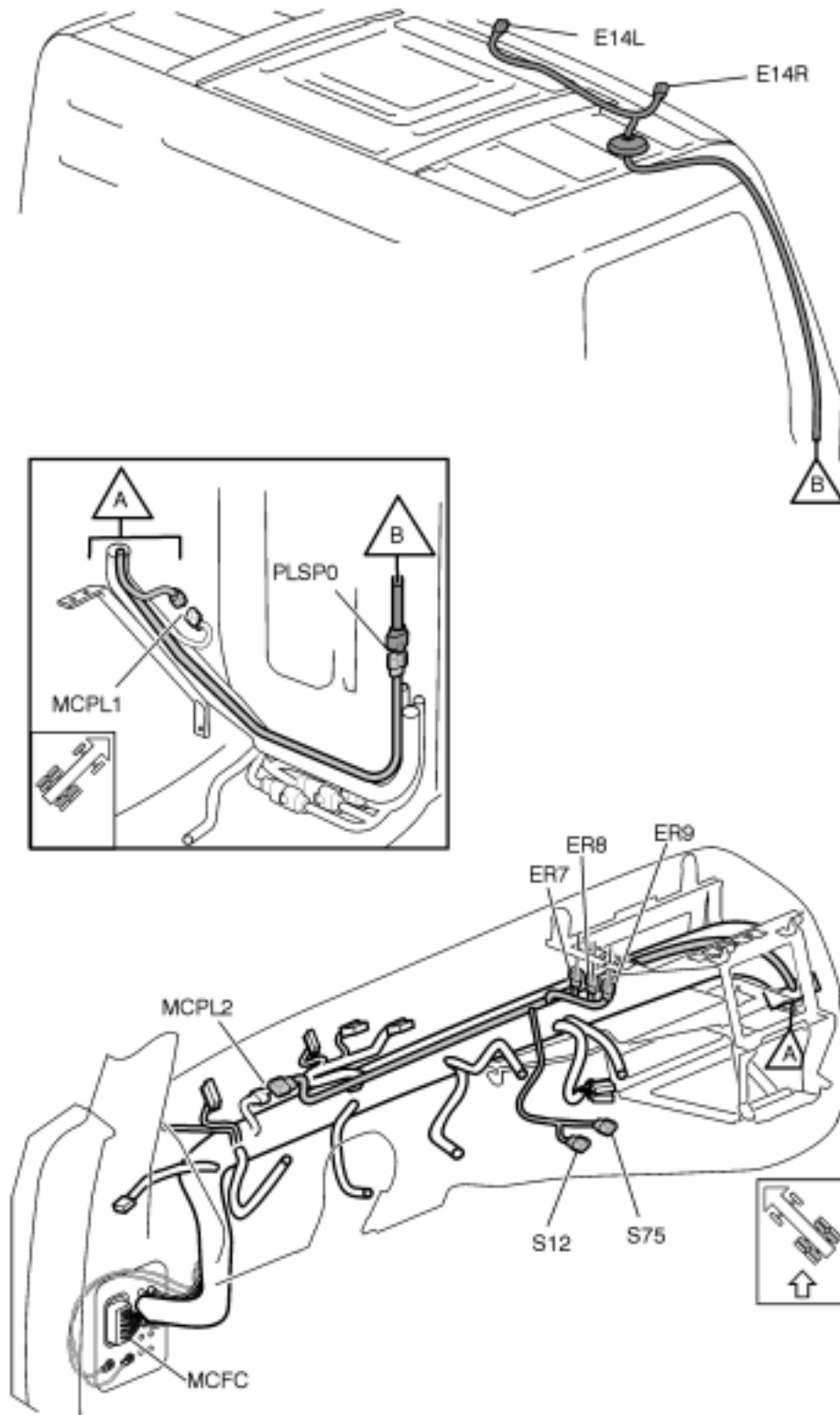
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## Dash Harness, Qualcomm



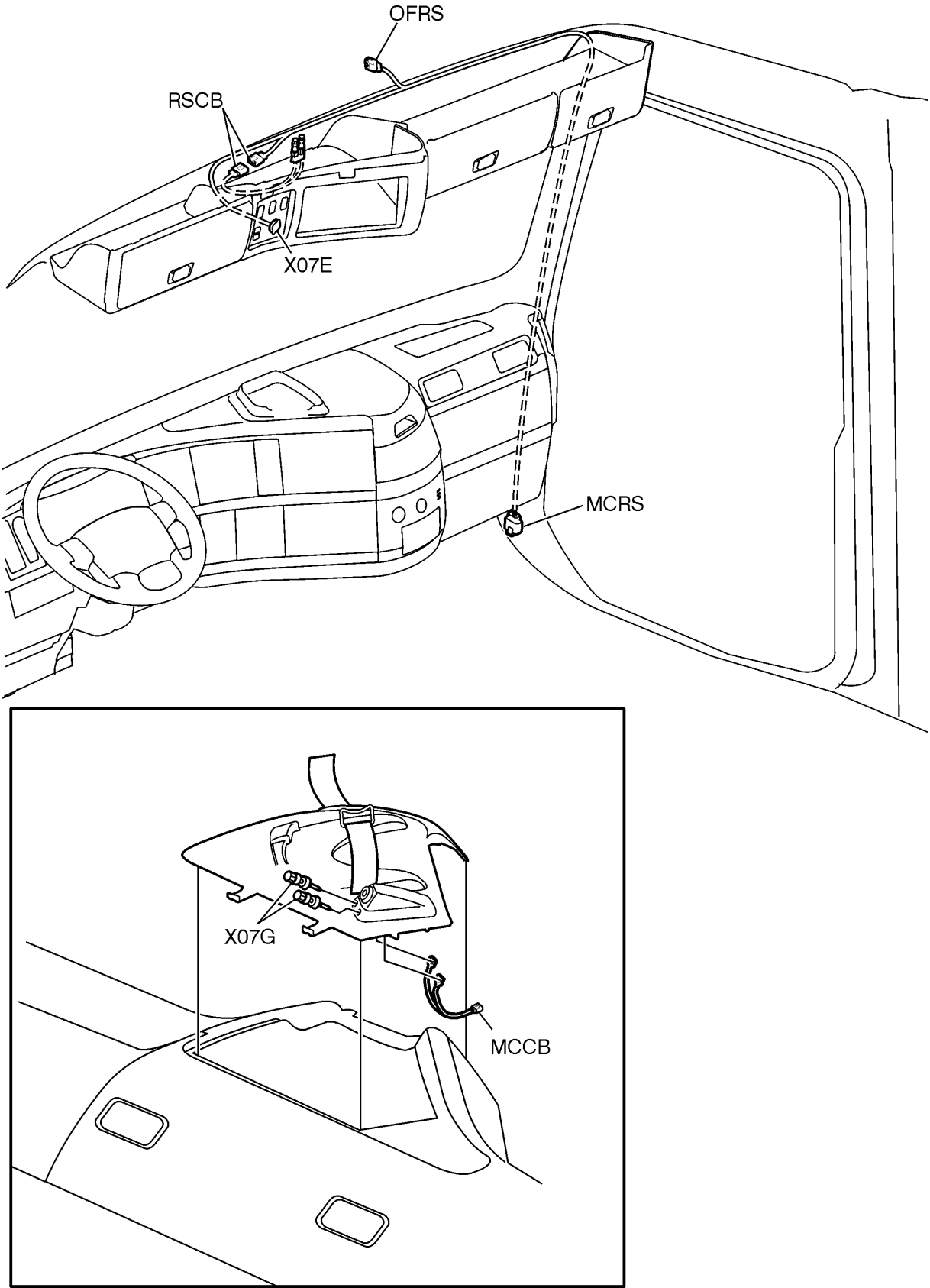
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## Dash Harness, Snow Plow/ Beacon Lights Option



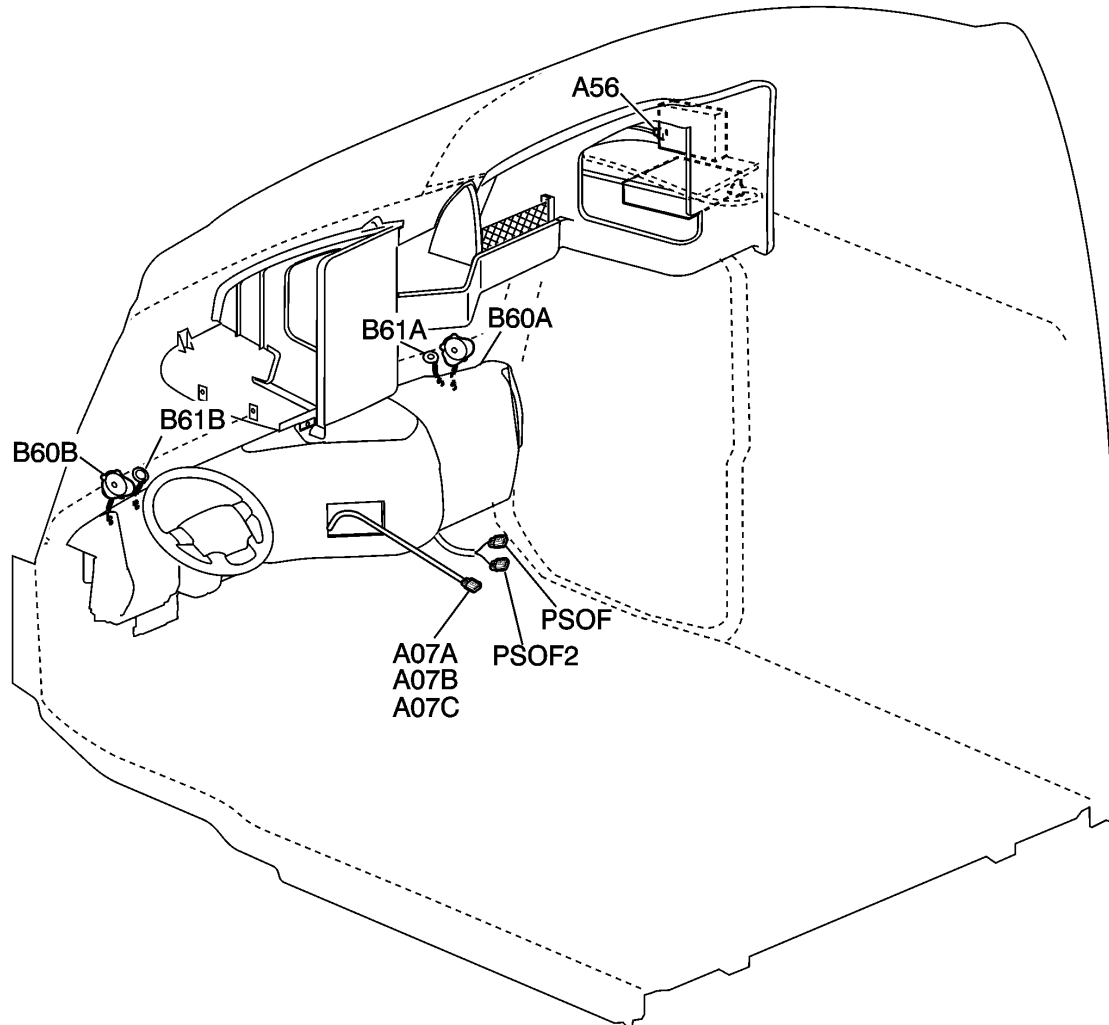
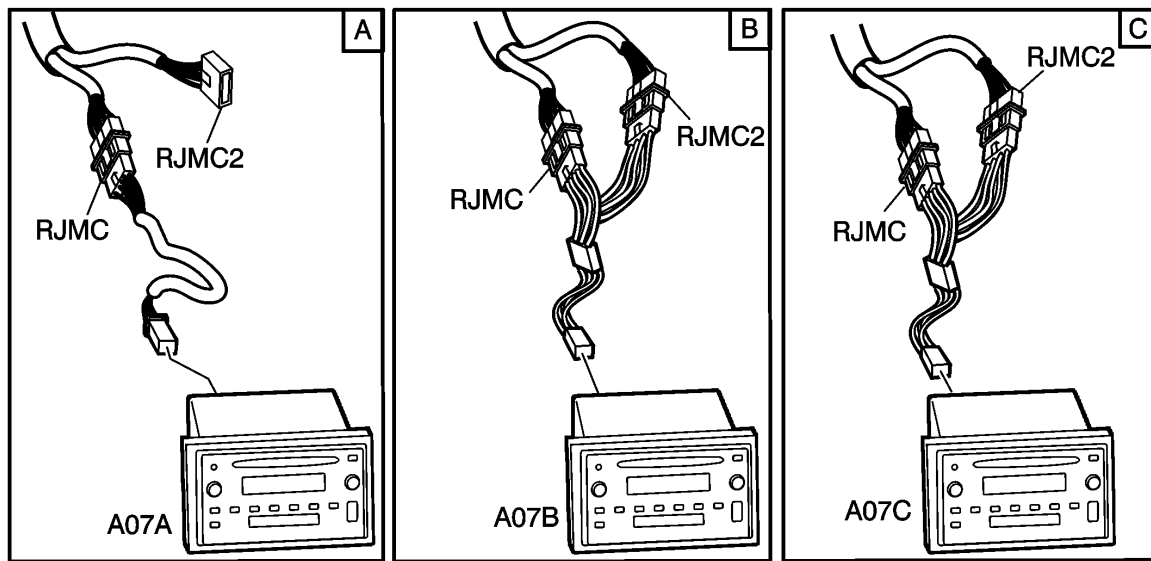
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Front Overhead Shelf/CB Power Harness



W3005899

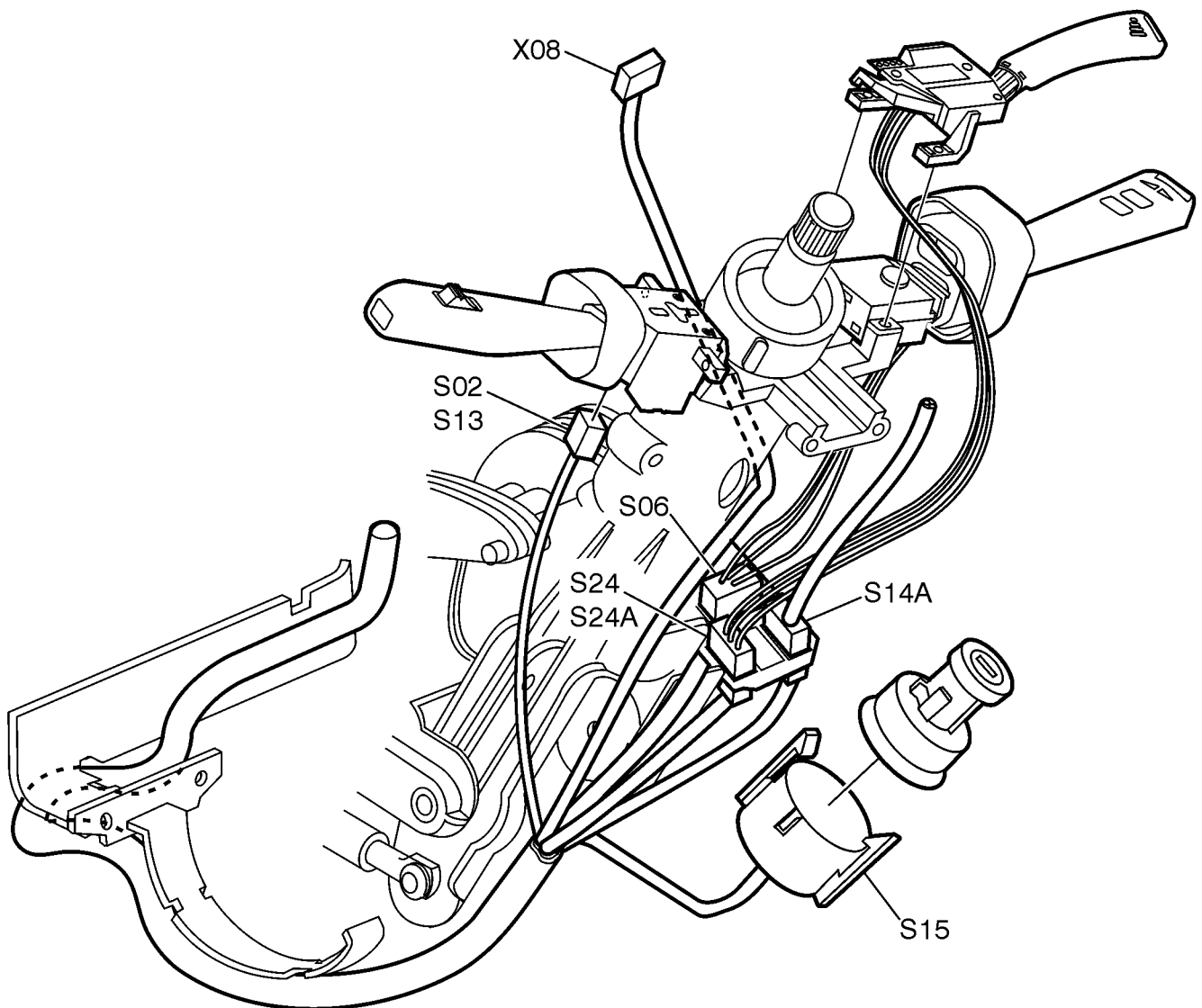
## Radio Harness



W3006717

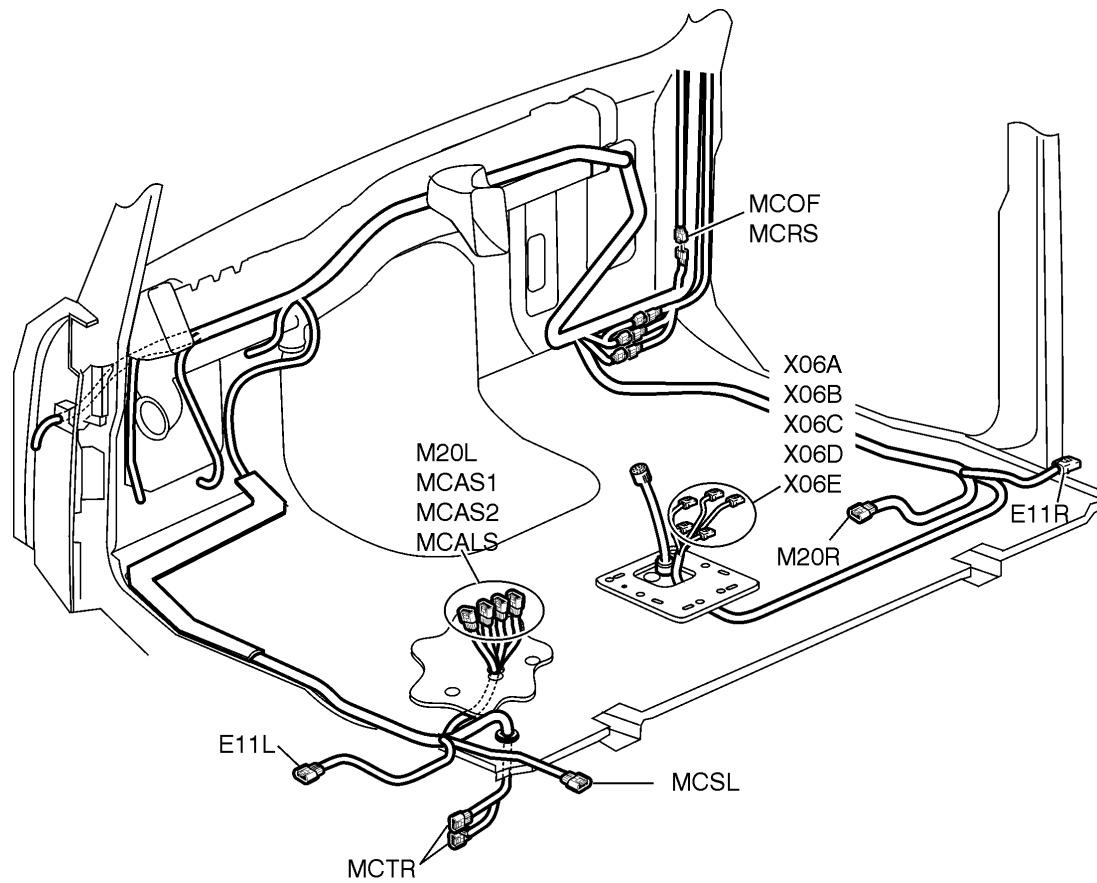


## Steering Column Harness, Including Stalk Switches



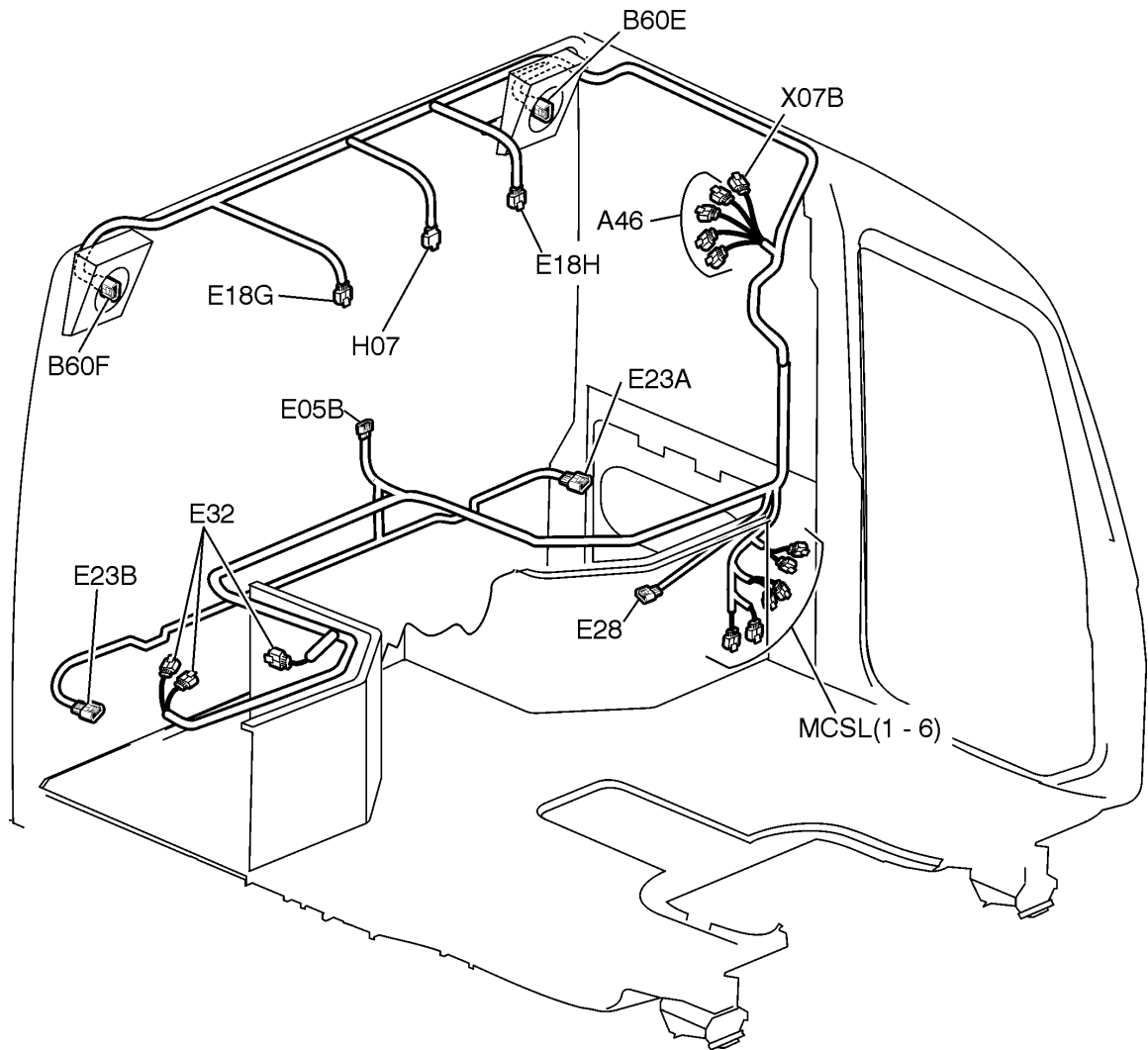
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## Cab Floor Harnesses, Front



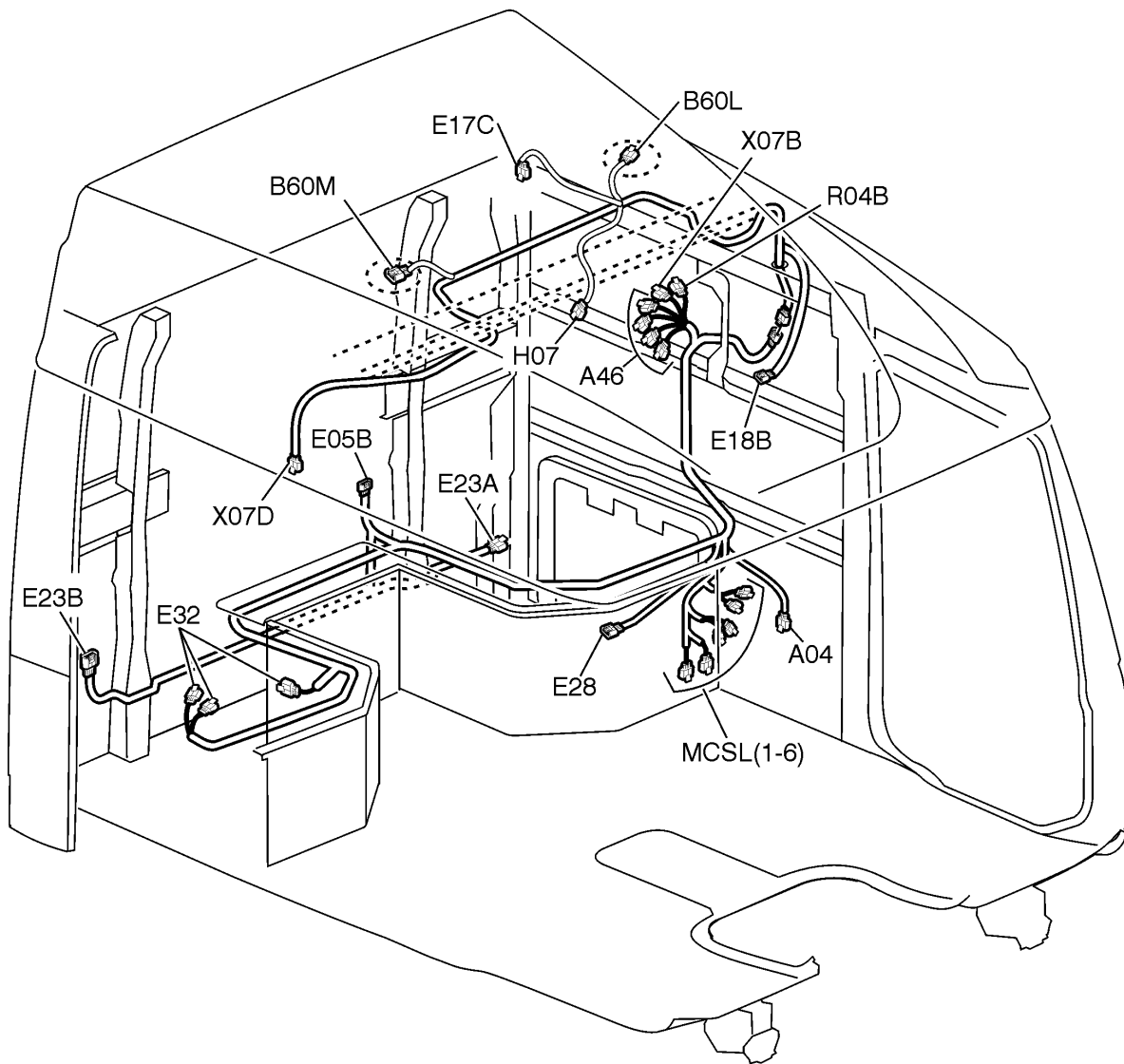
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## Rear Cab Harness, VN430



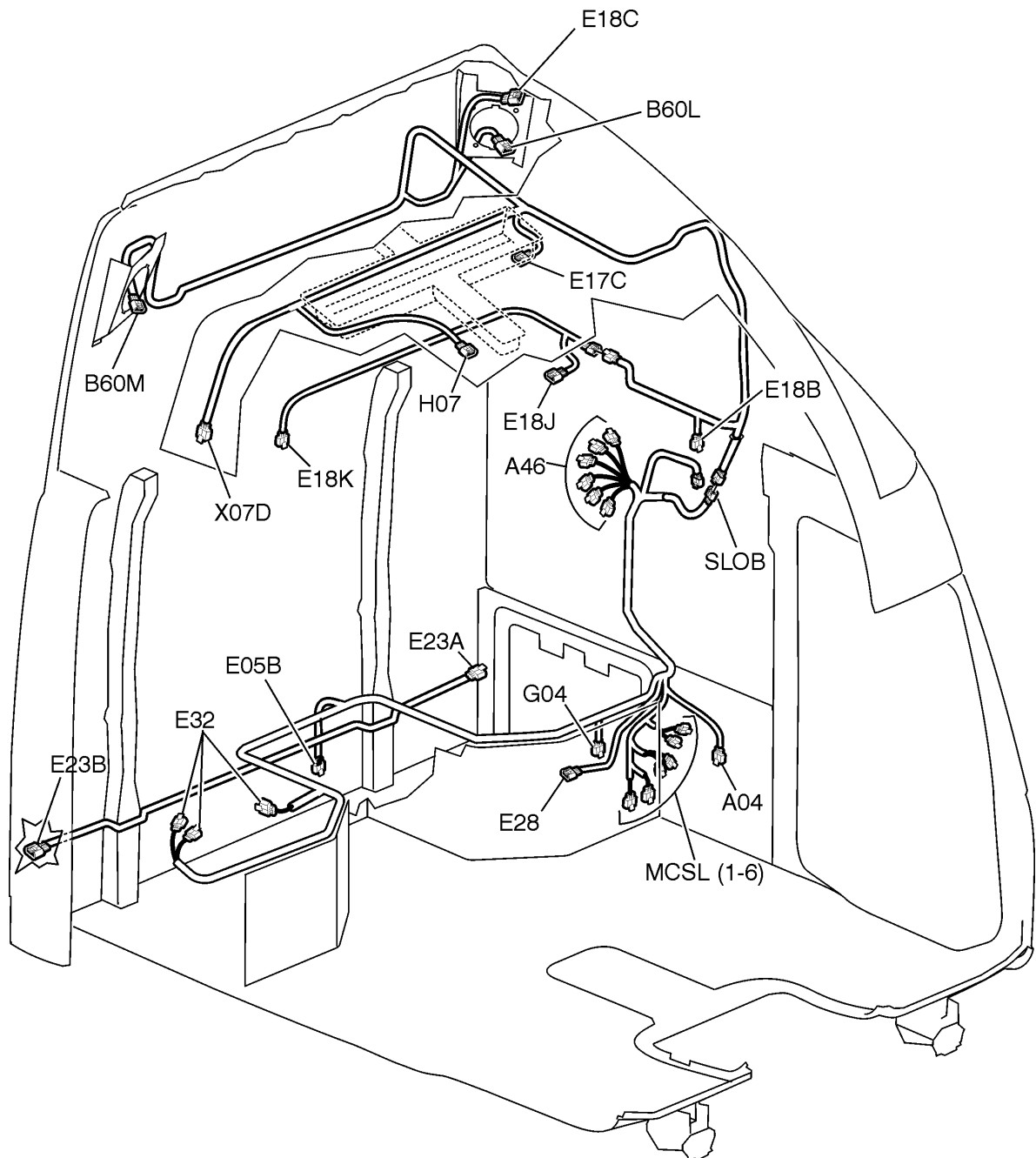
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## Rear Cab Harness, VN630



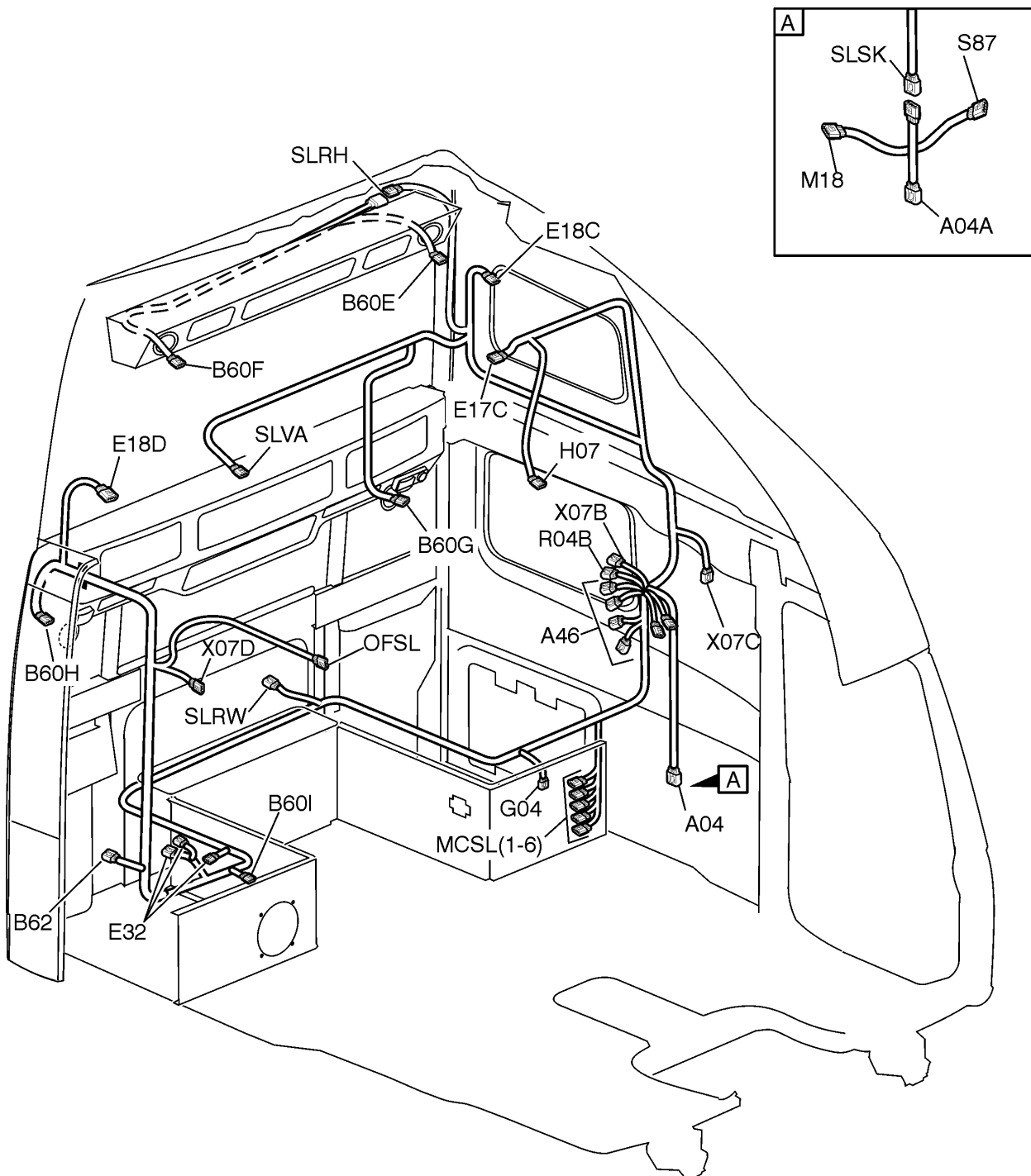
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## Rear Cab Harness, VN670



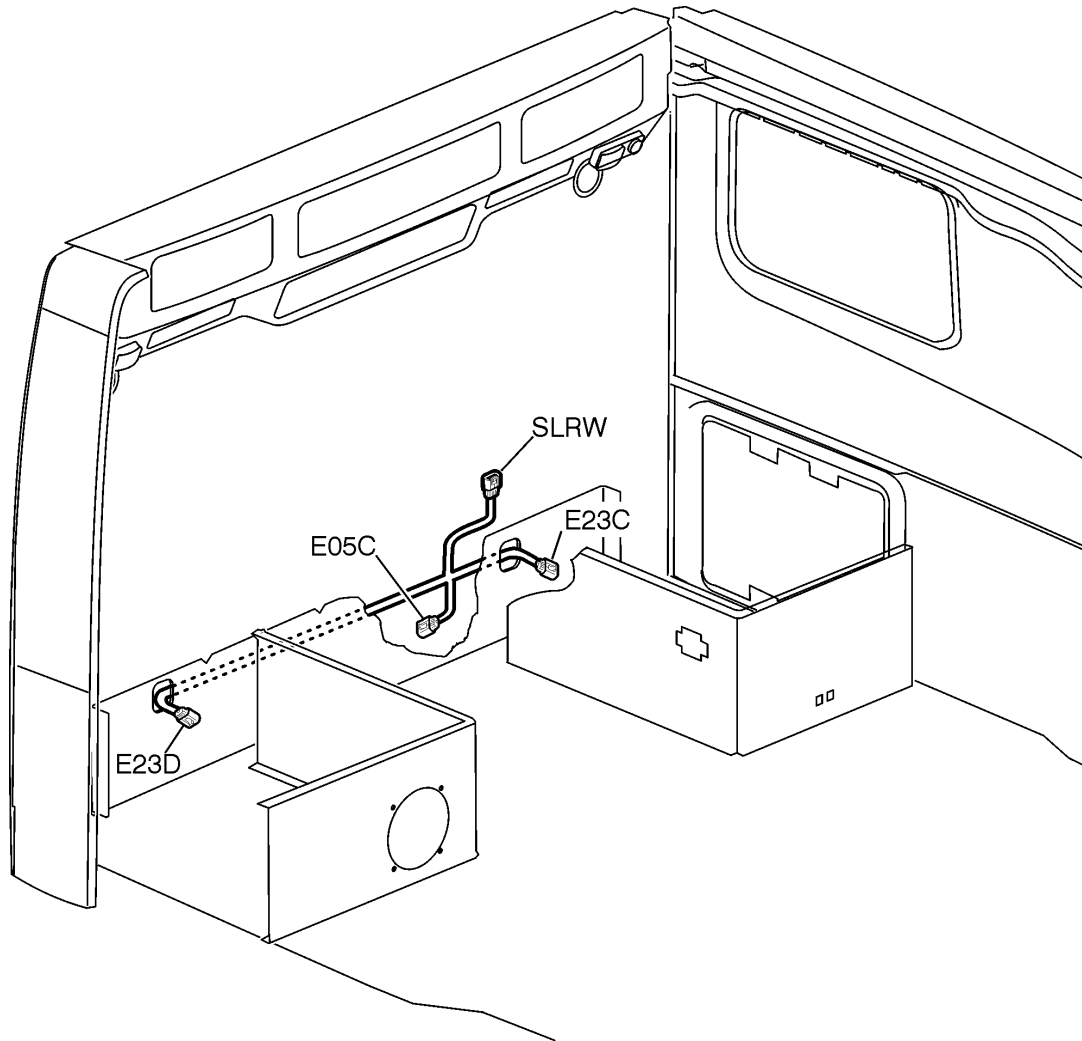
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## Rear Cab Harness, VN780



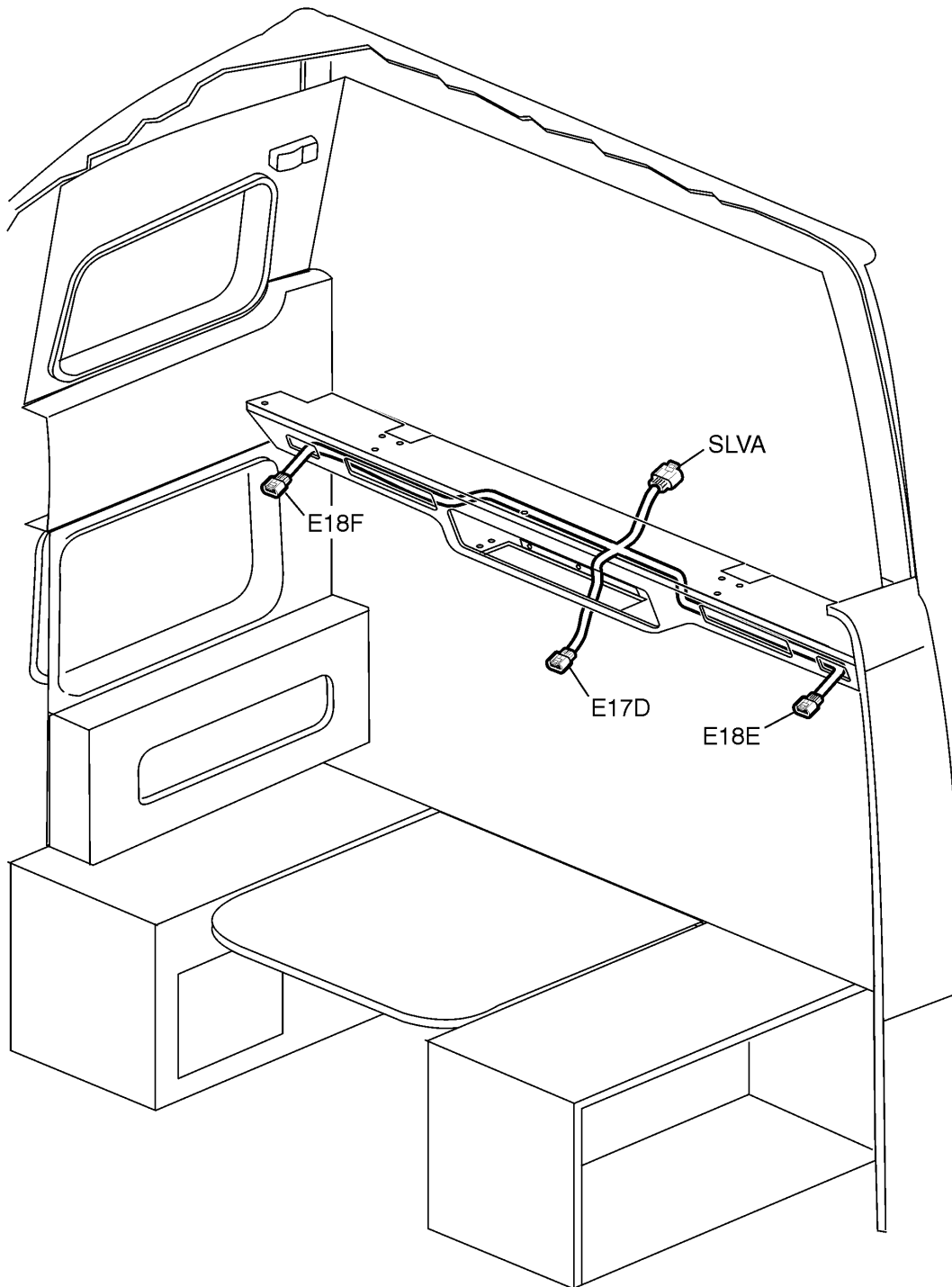
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## Rear Cab, Lower Wall Harness, VN780



W3005888

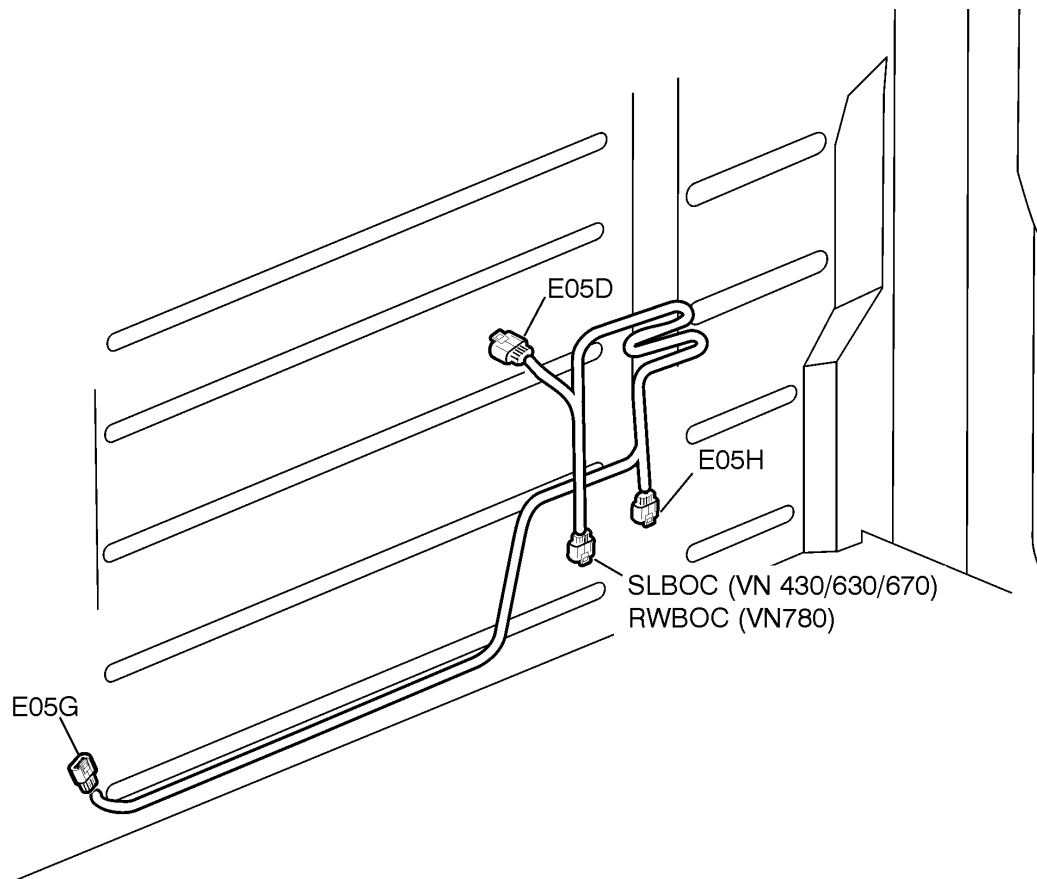
## Rear Cab Valance Harness, VN780



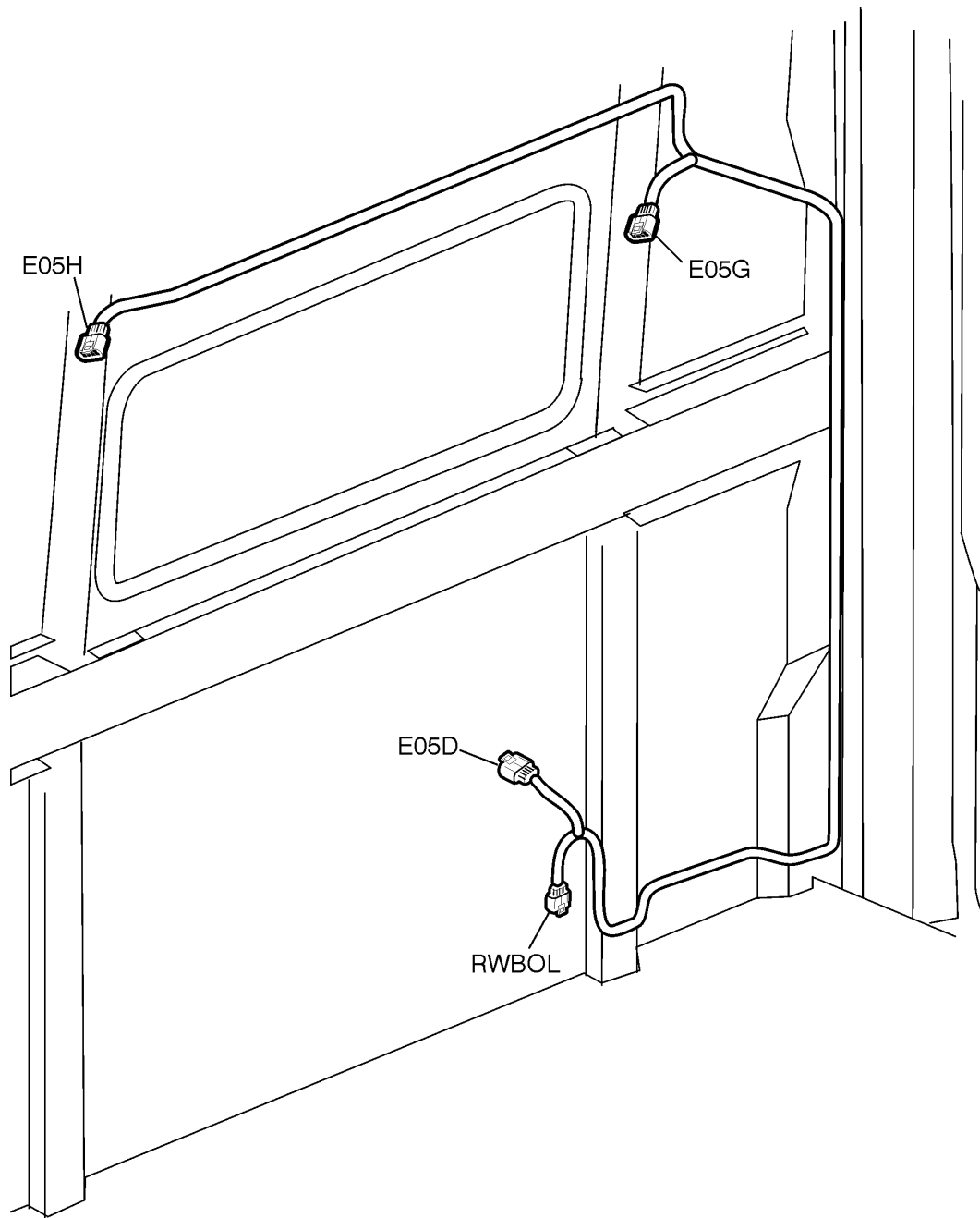
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## Rear Cab Harness, Back of Cab Lights (HDI/HDO Variant)

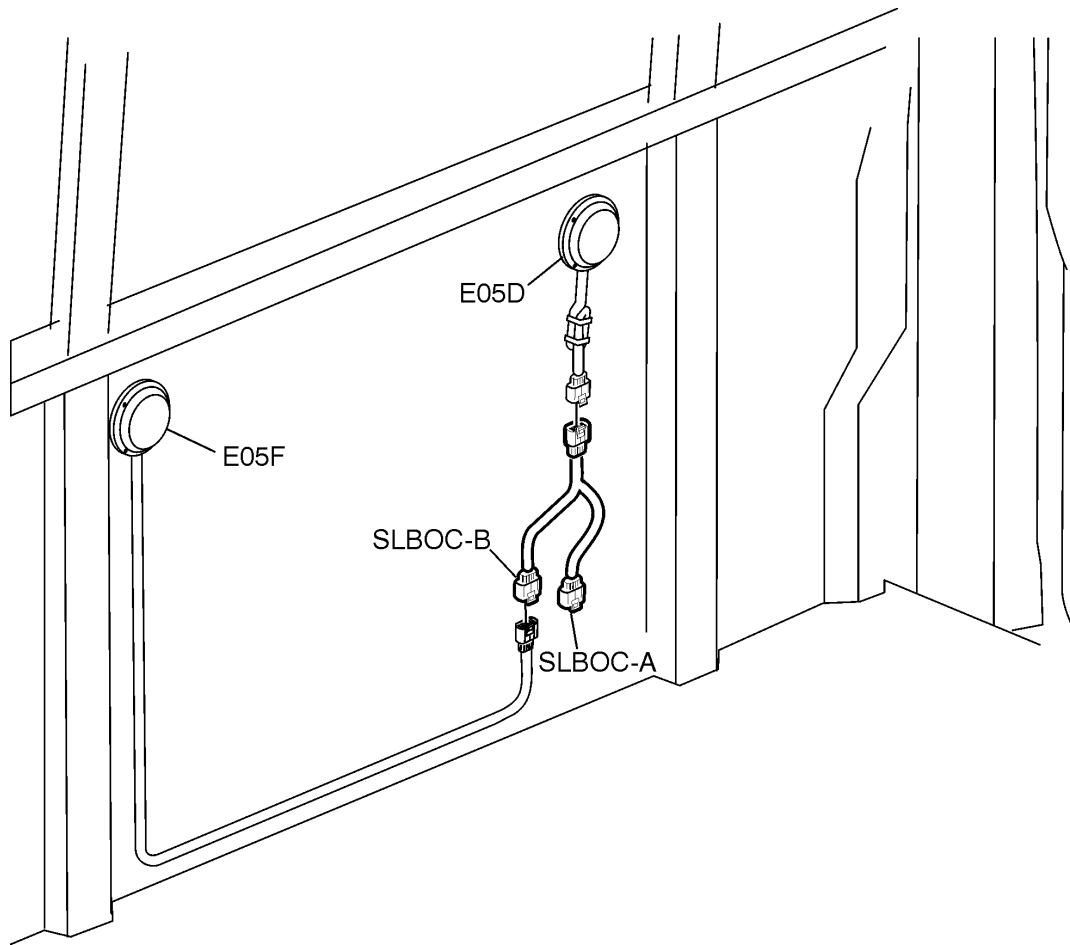


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**Rear Cab Harness, Back of Cab Lights (LDI/LDO Variant)**

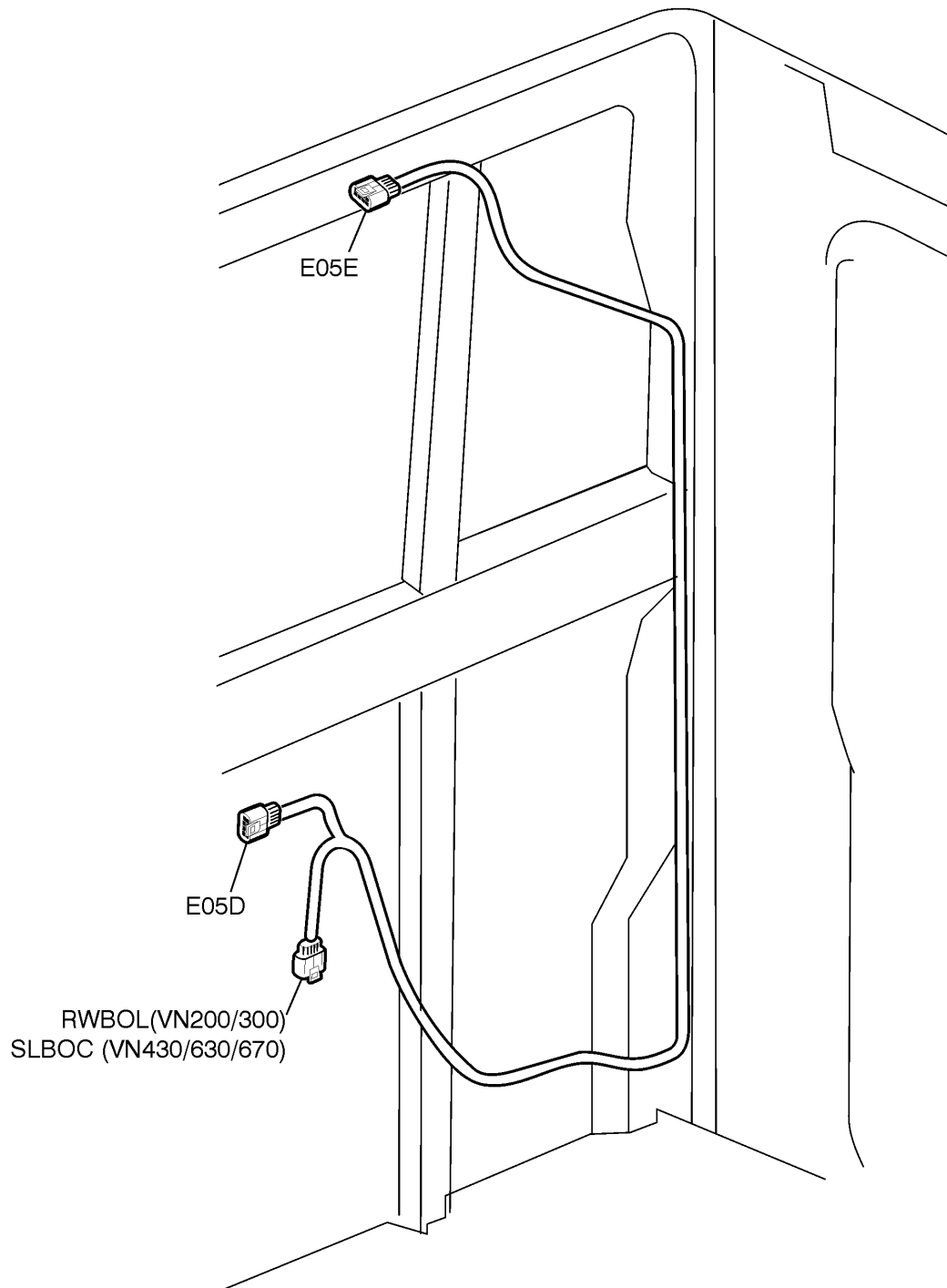
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## Rear Cab Harness, Fifth Wheel Light



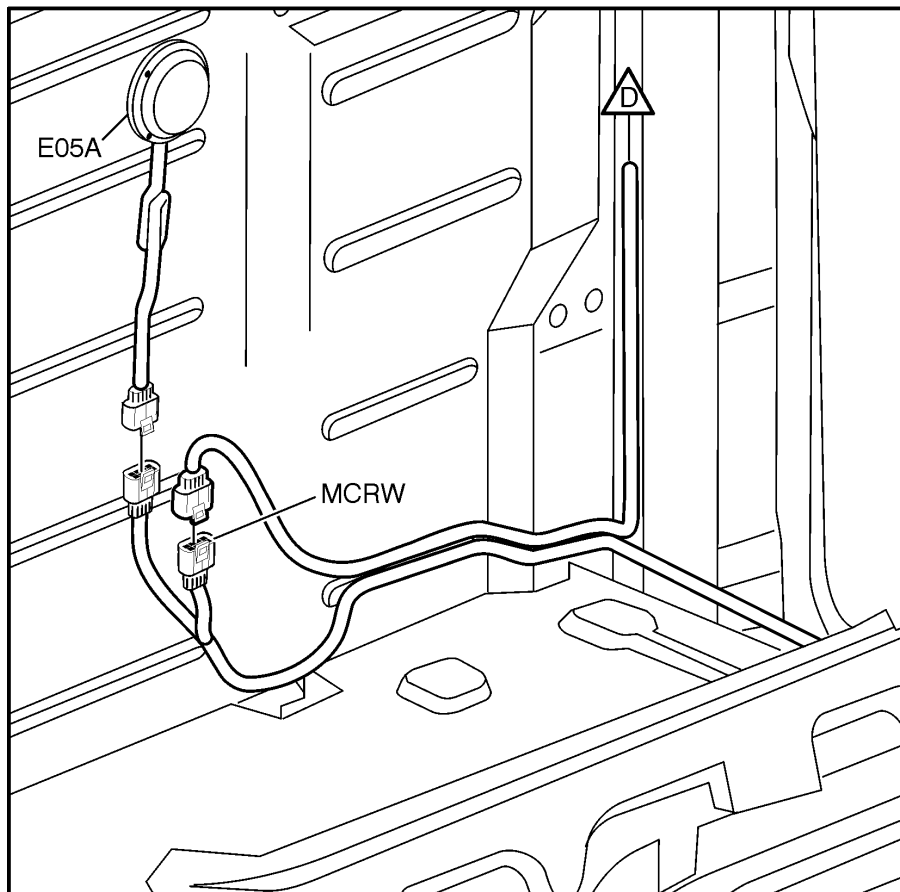
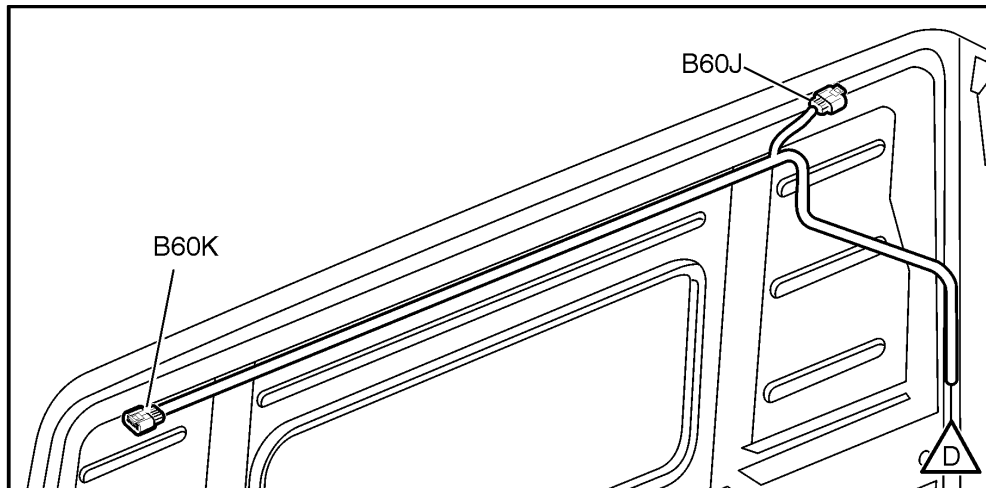
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## Rear Cab Harness, Fifth Wheel Light



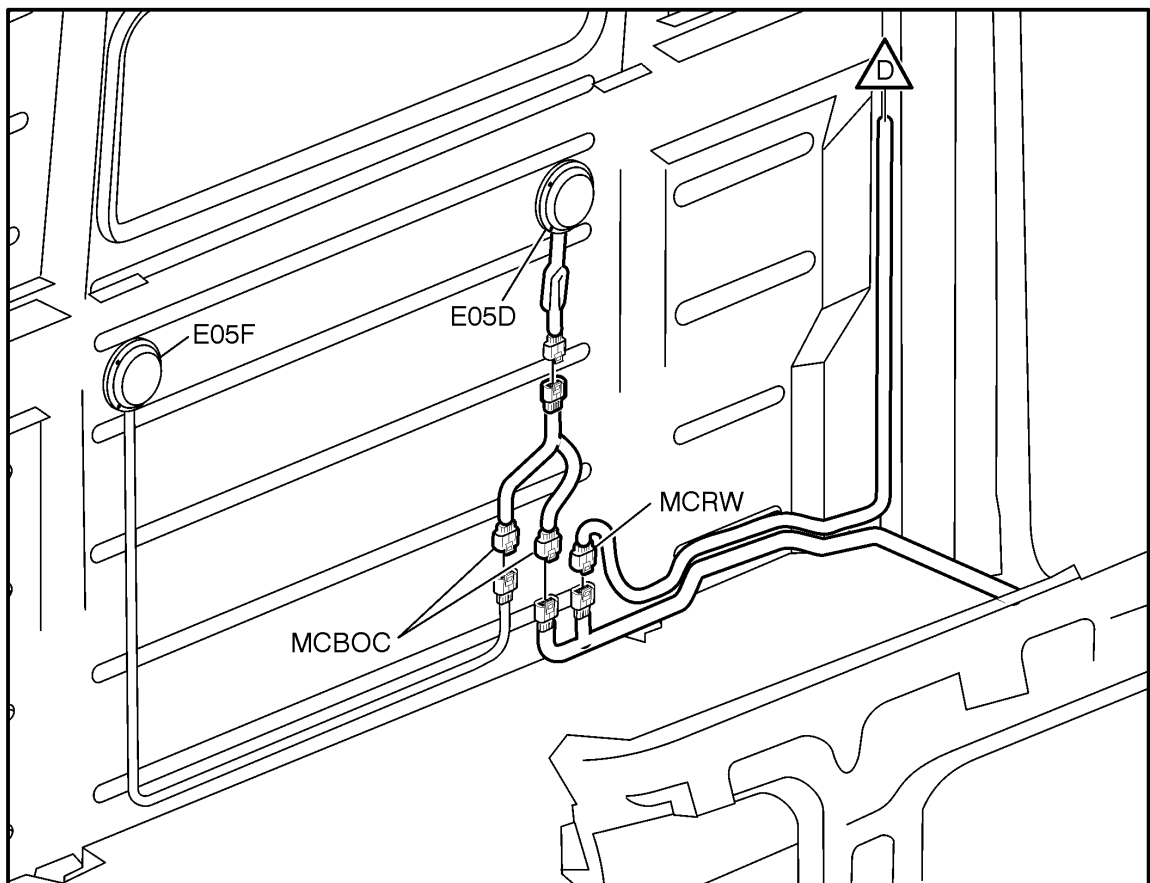
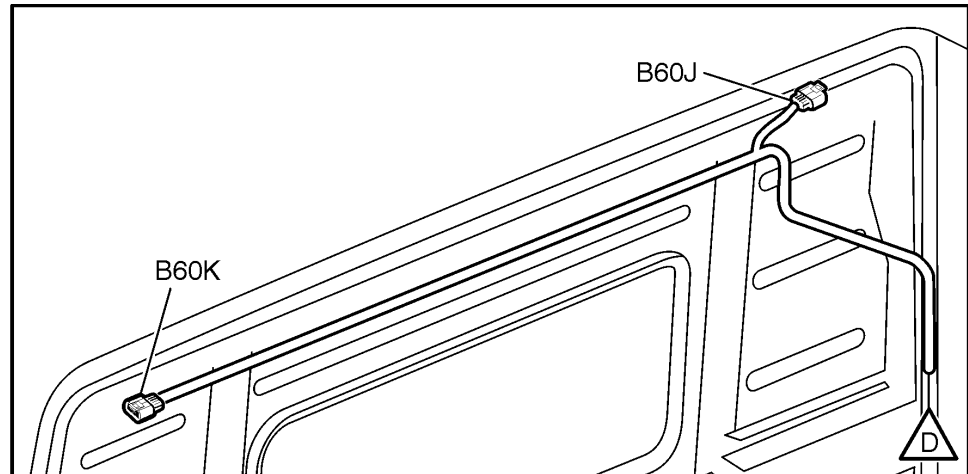
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## Rear Cab Harness, Fifth Wheel Light and Rear Speakers (Daycab)



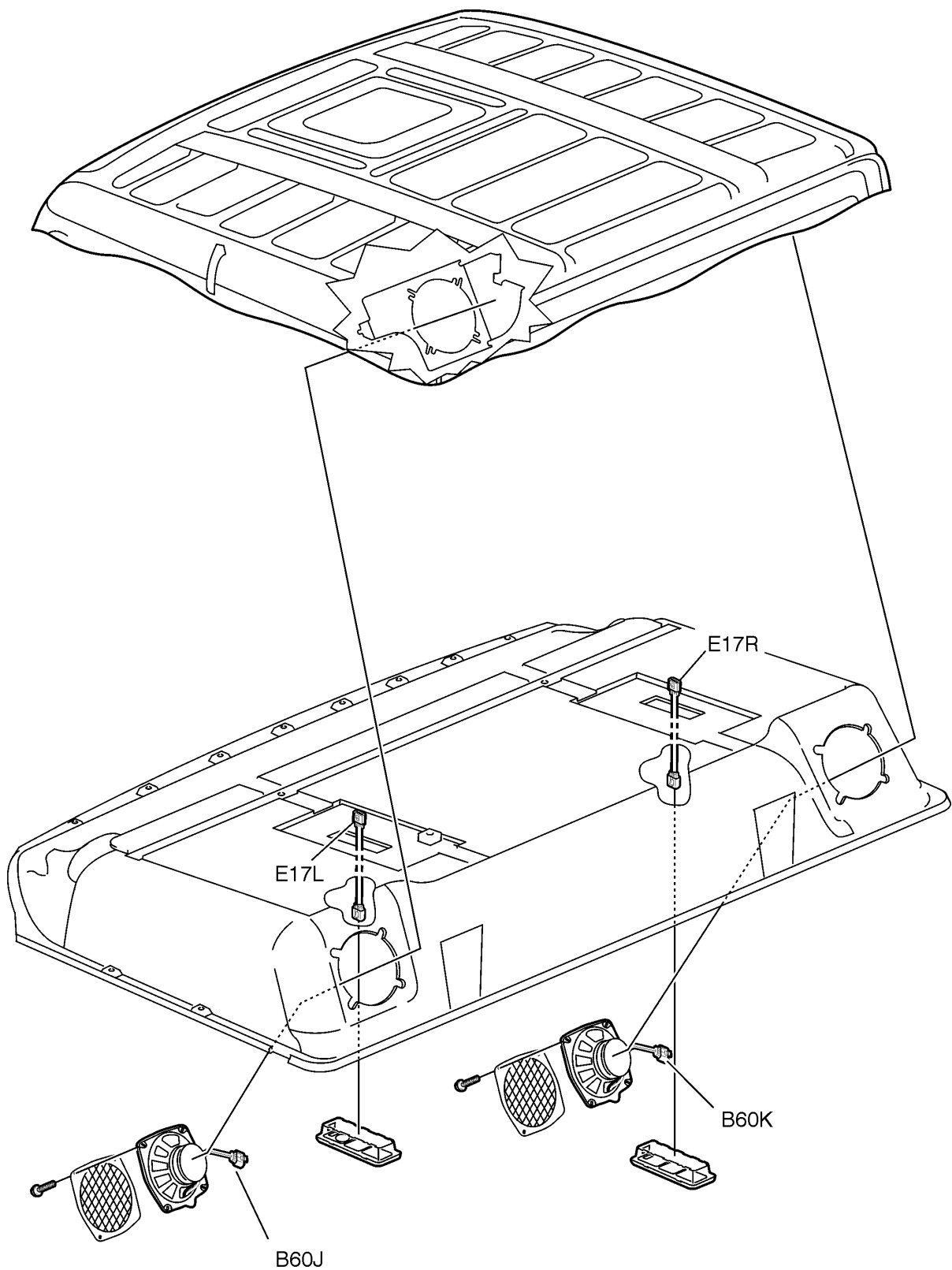
W3005895

## Rear Cab Harness, Dual Fifth Wheel Light and Rear Speakers (Daycab)



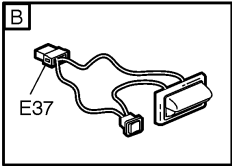
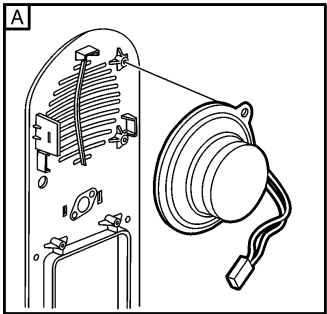
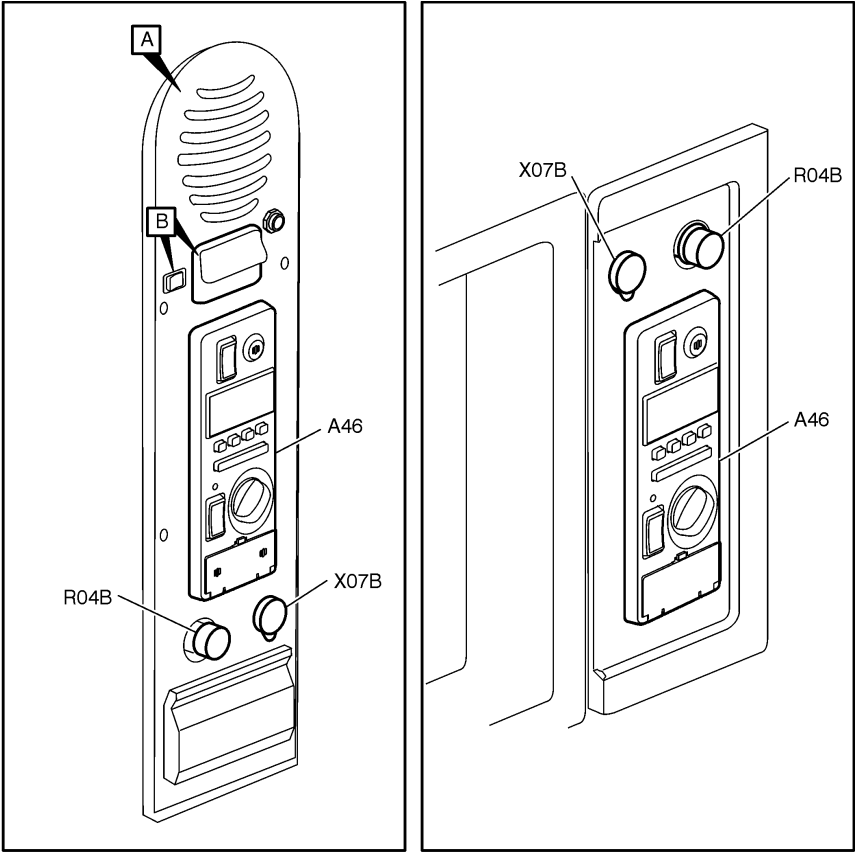
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## Rear Cab Harness, Overhead Lights and Rear Speaker Detail



W3005939

Sleeper Control Panel (LECM)

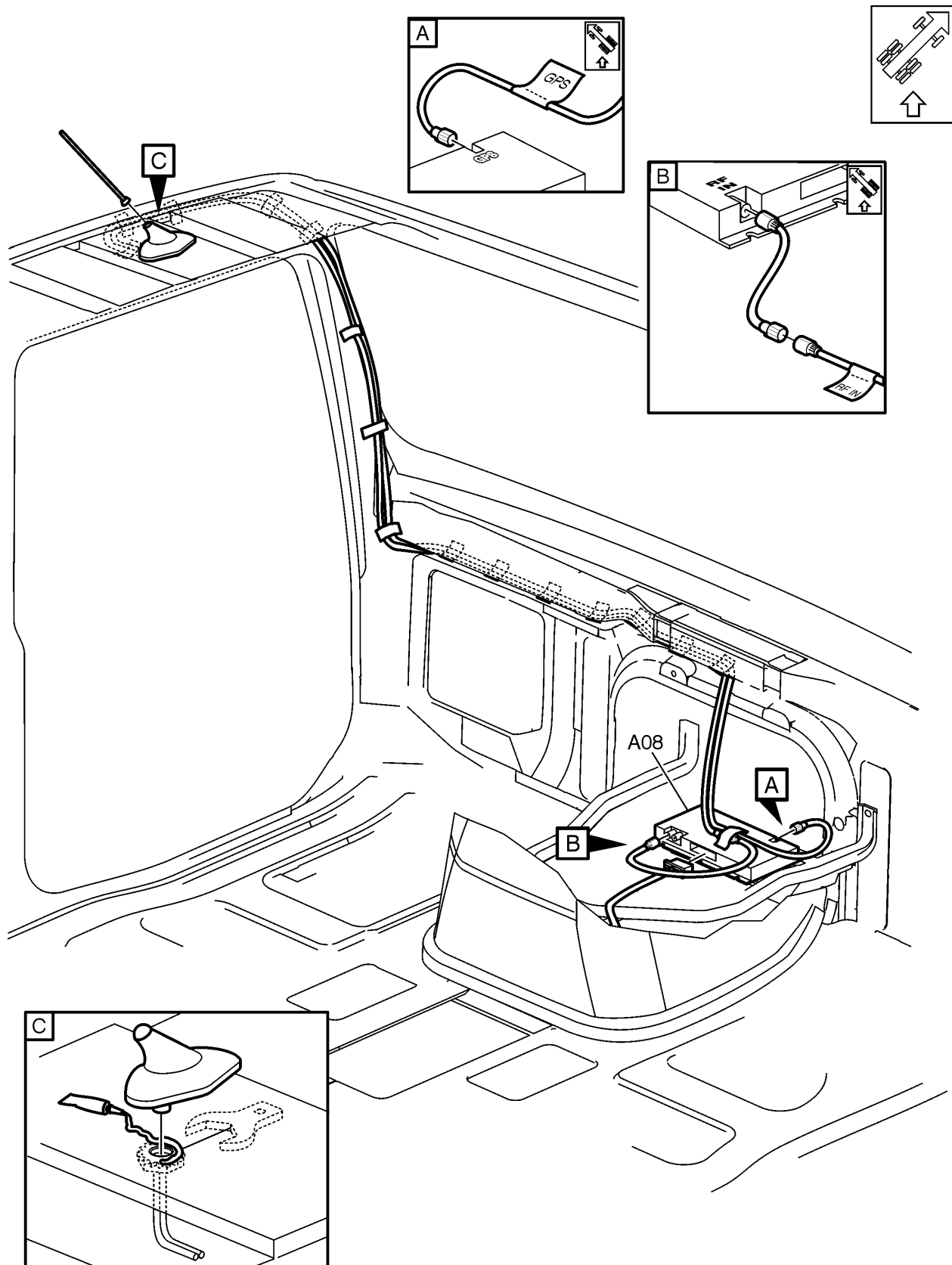


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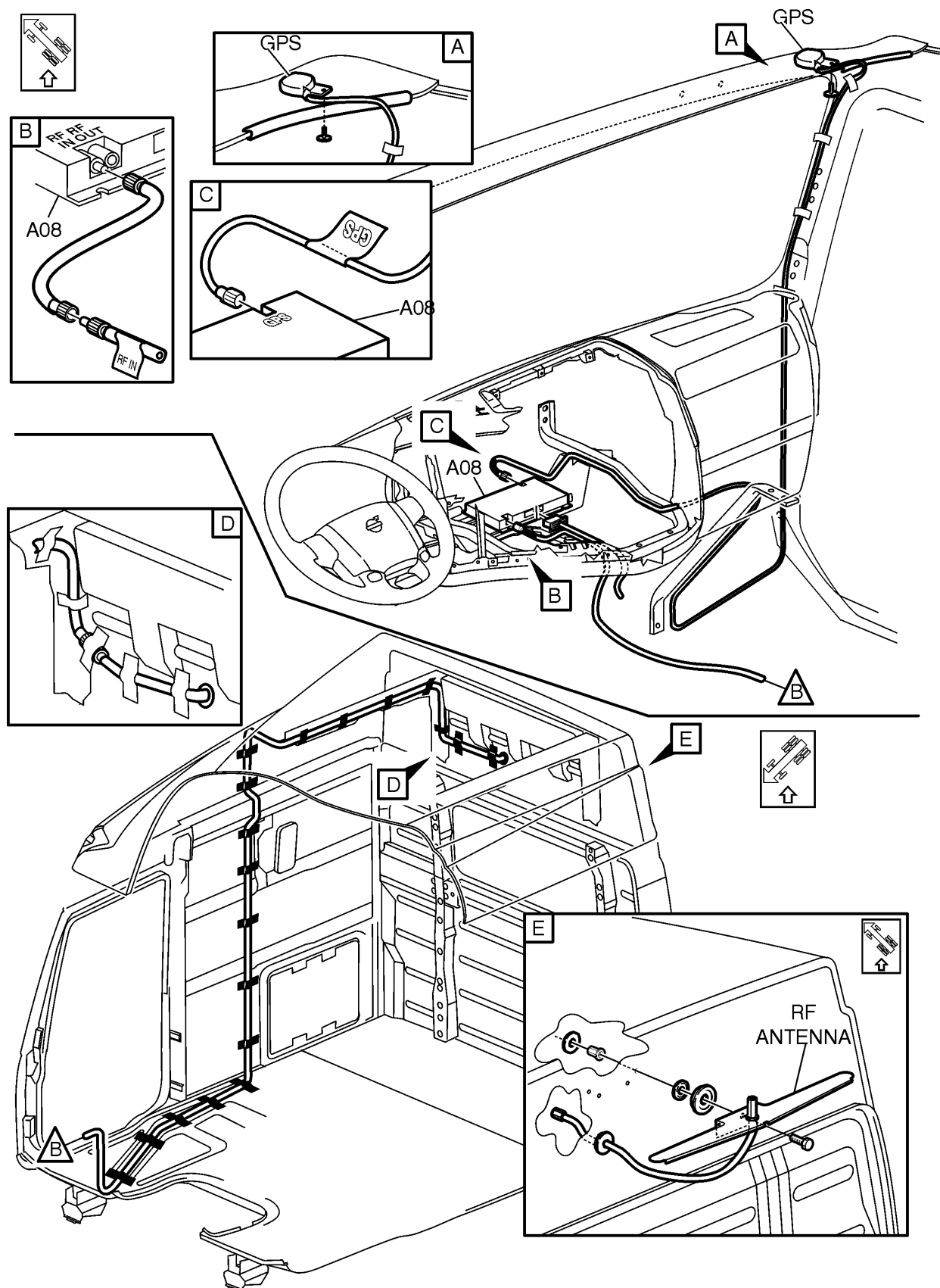
## Volvo Link Harness and Antennas

## Volvo Link Harness and Antennas, Day Cab



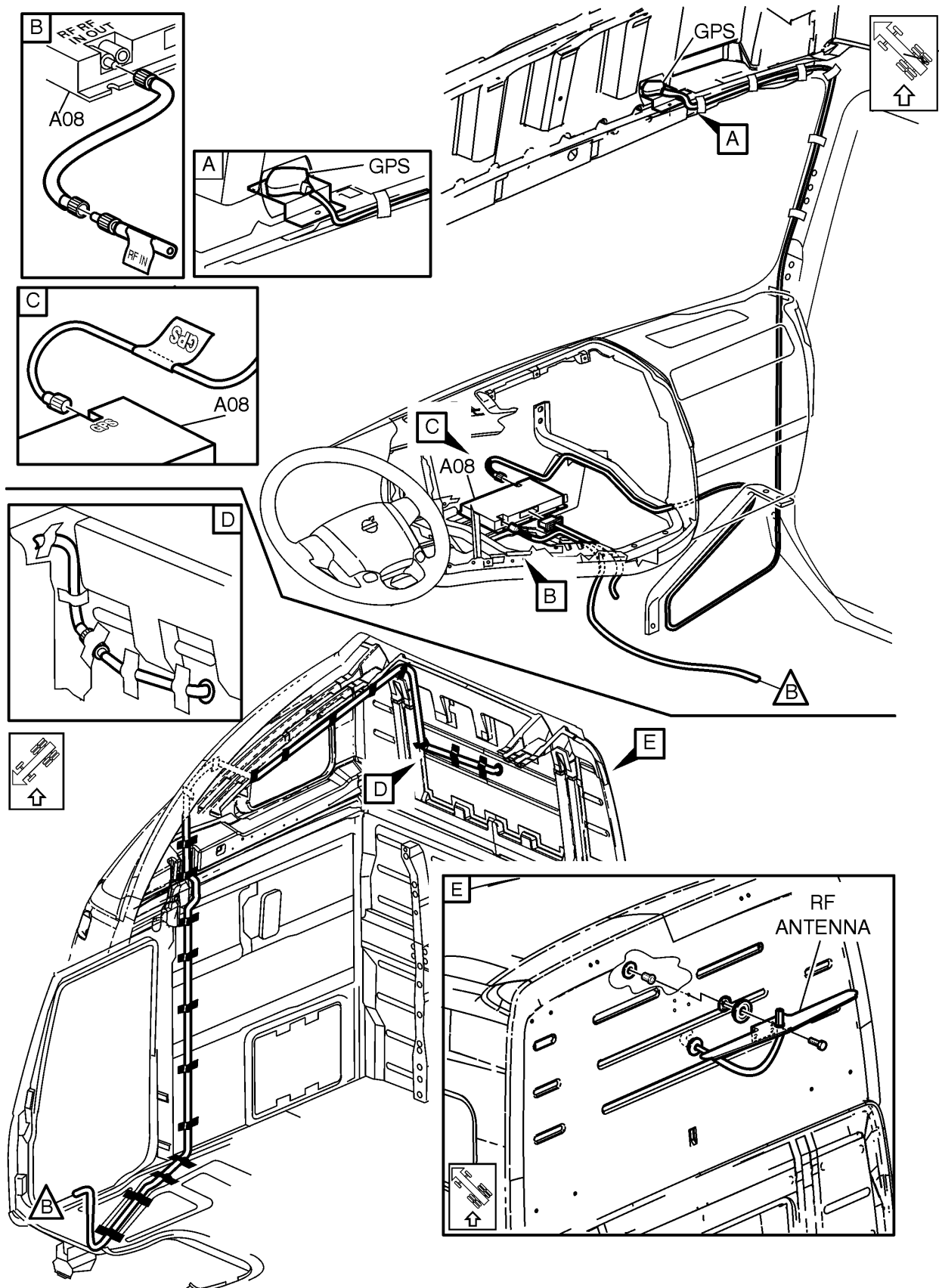
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## Volvo Link Harness and Antennas, 630 Sleeper Cab



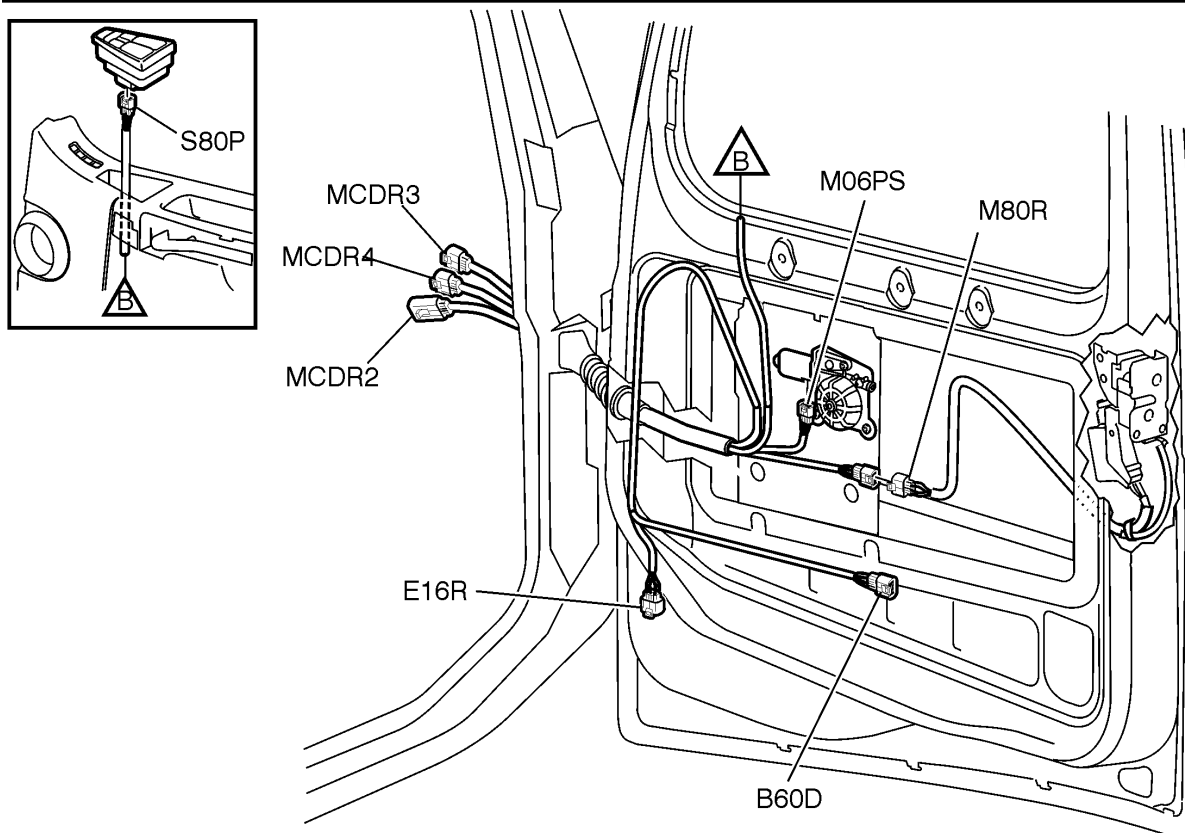
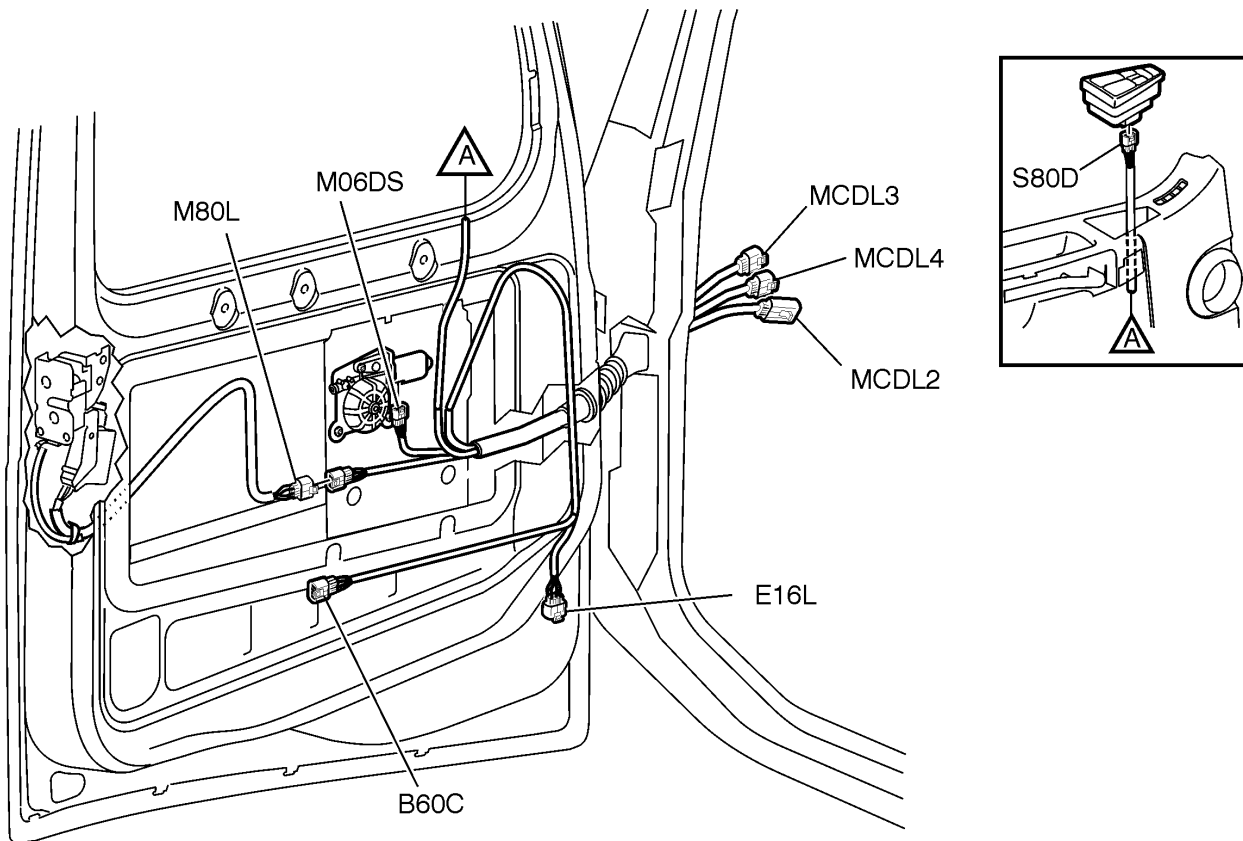
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## Volvo Link Harness and Antennas, 670/780 Sleeper Cab



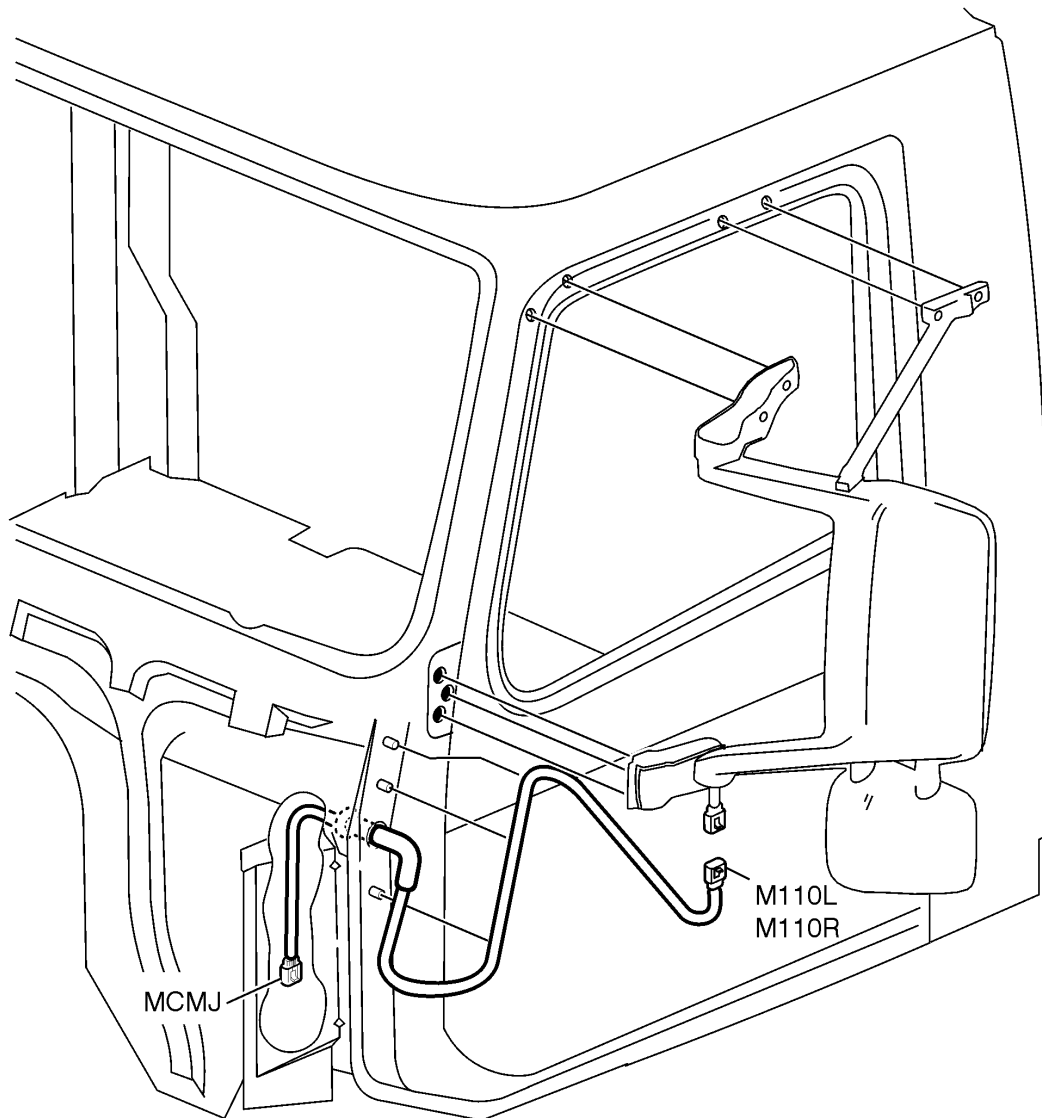
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## Door Harness



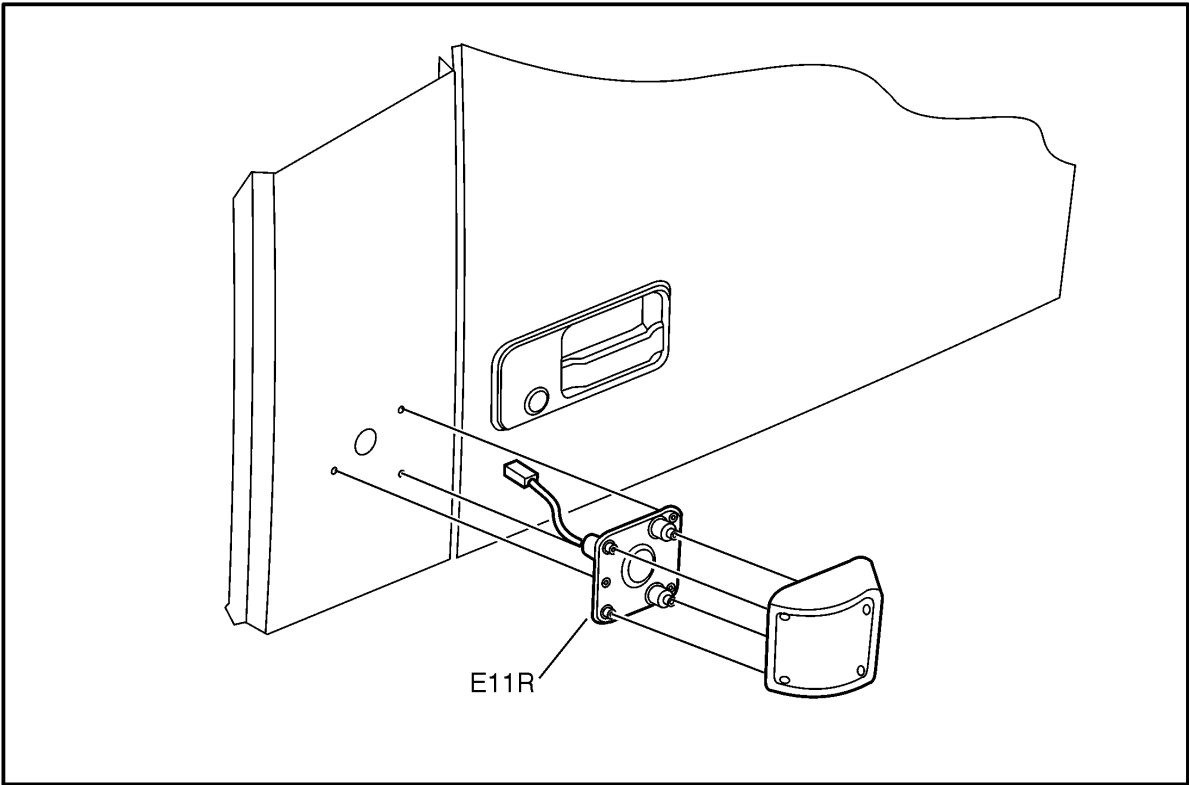
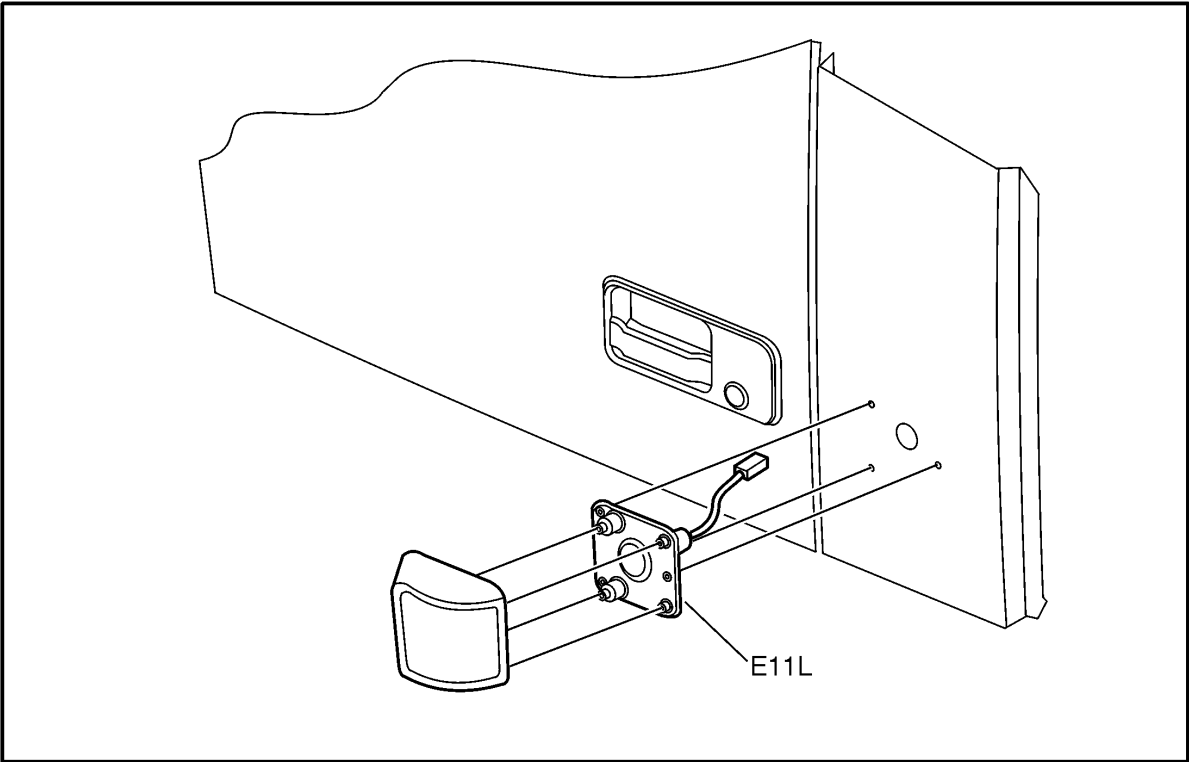
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## Side Mirrors

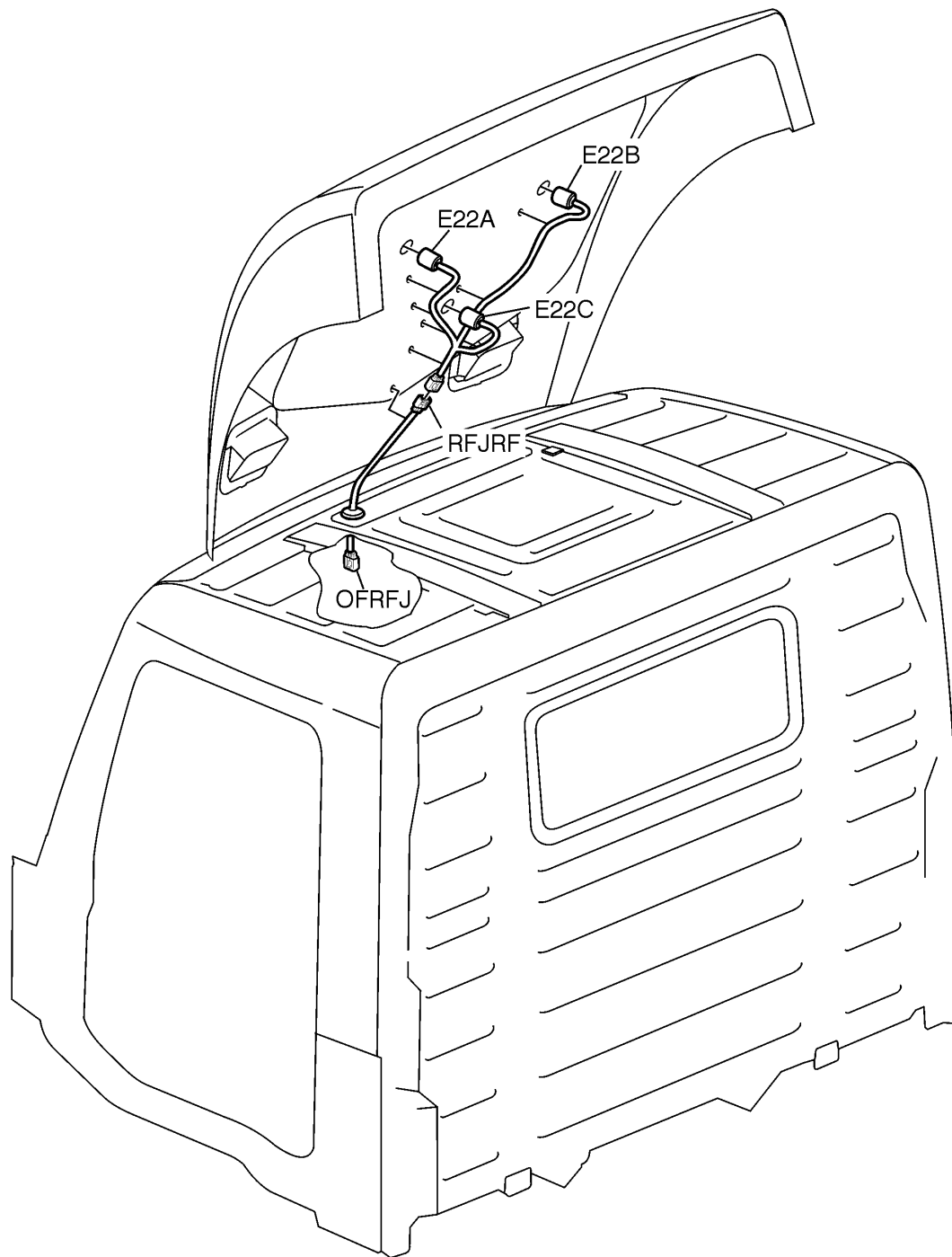


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Side Markers

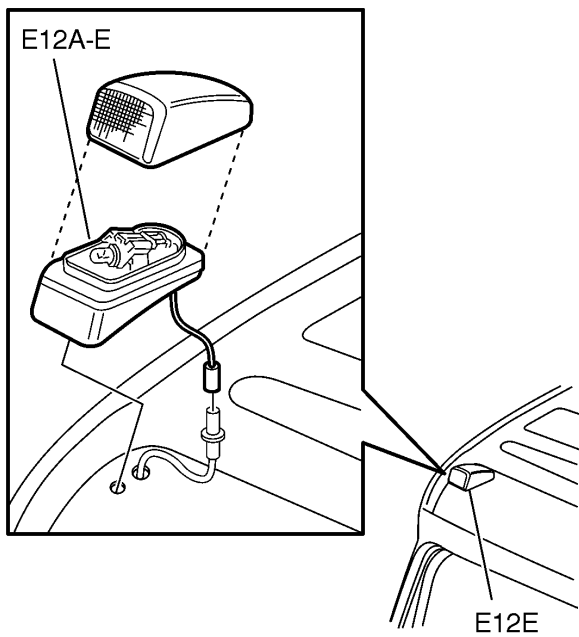
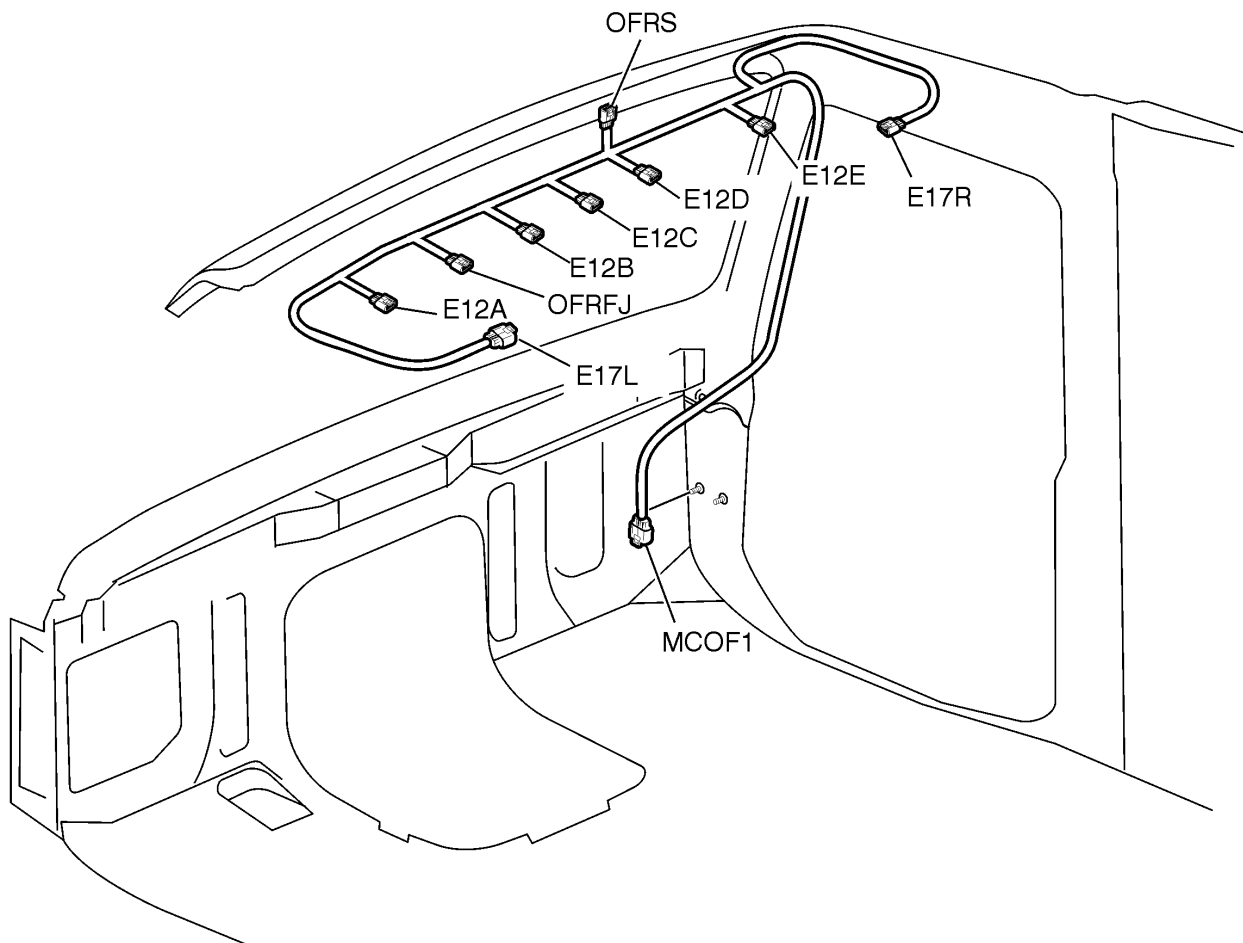


## Roof Sign Harness



W3005923

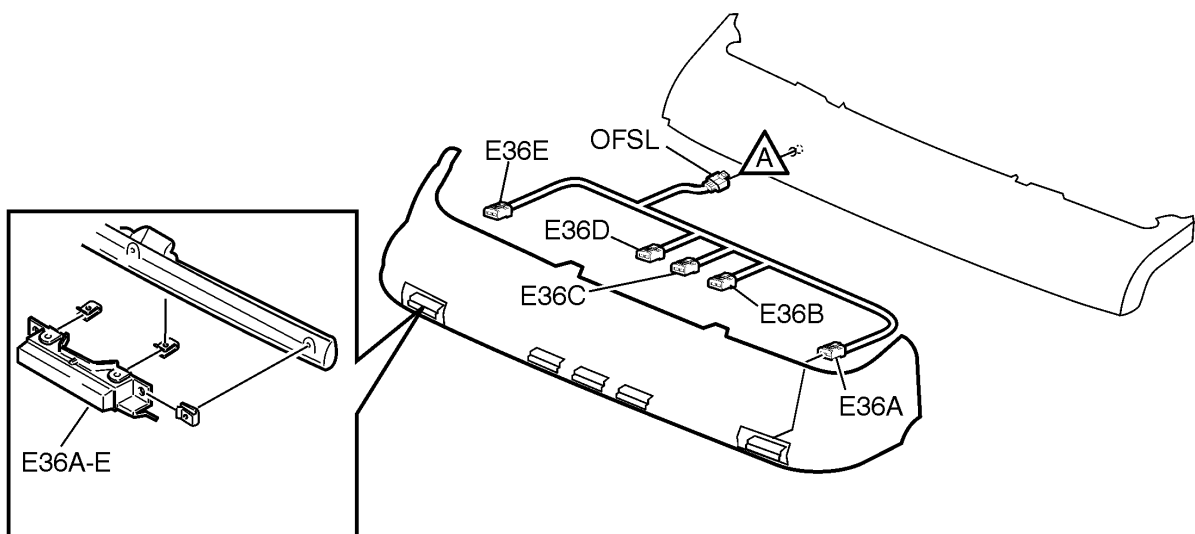
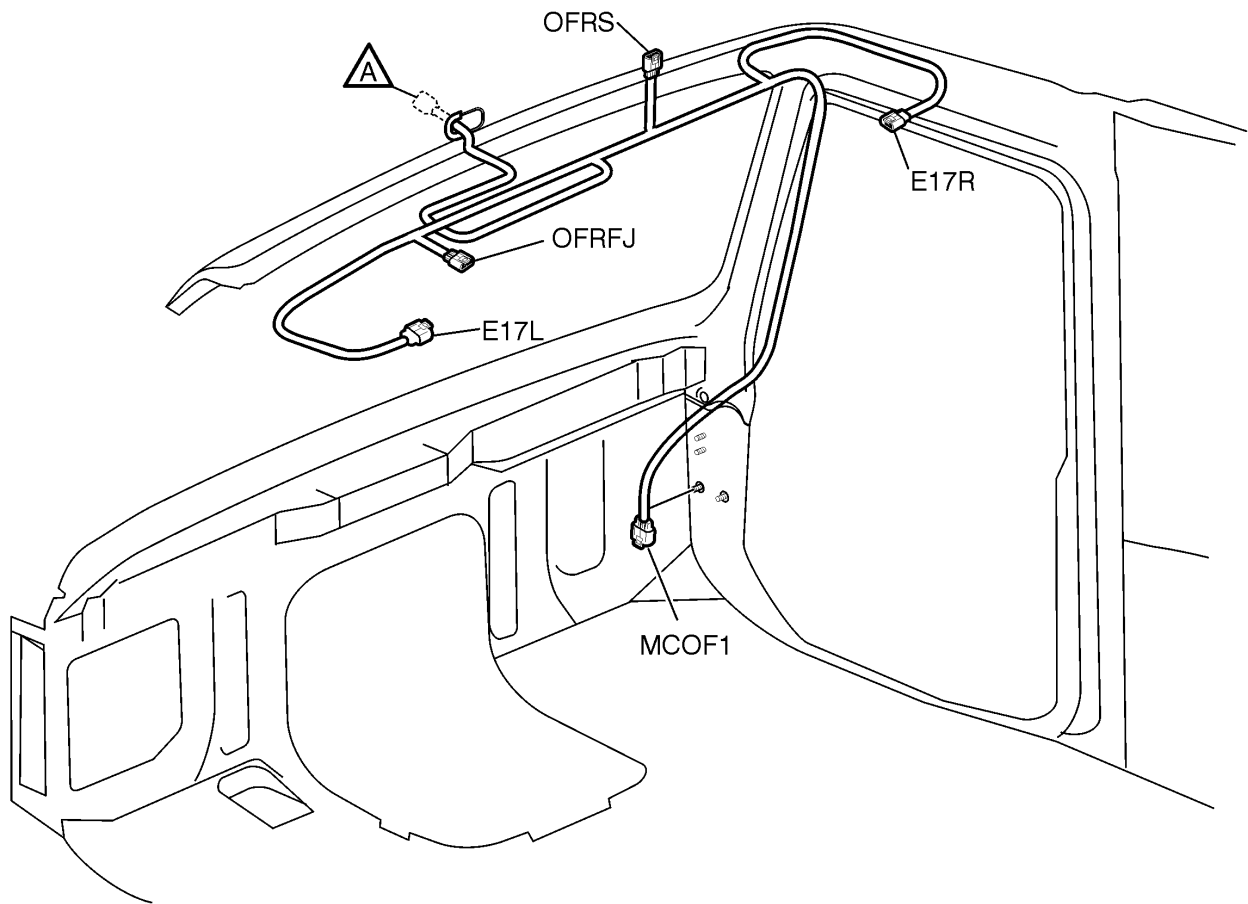
## Overhead Marker Lights



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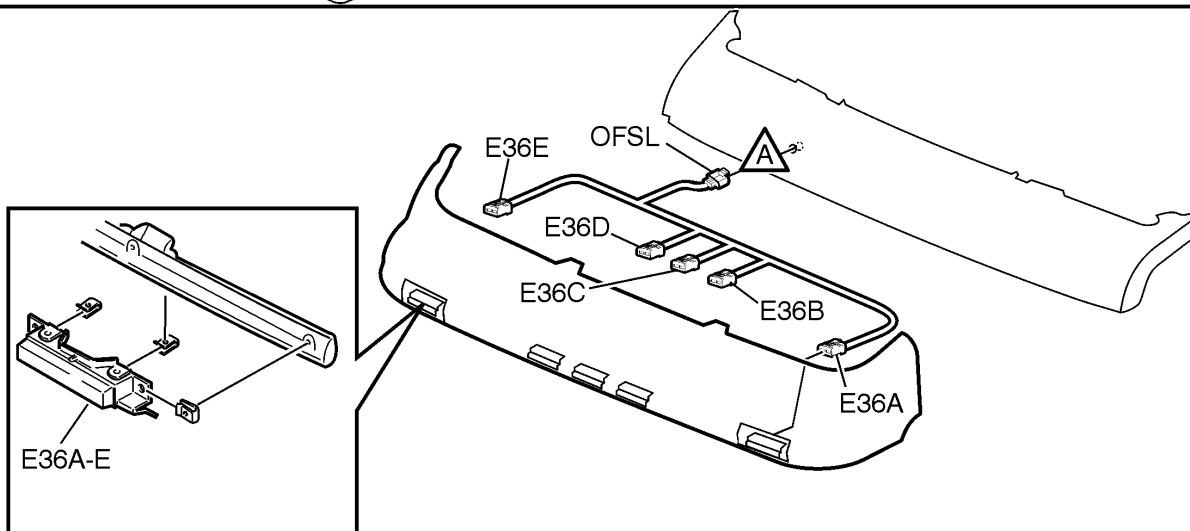
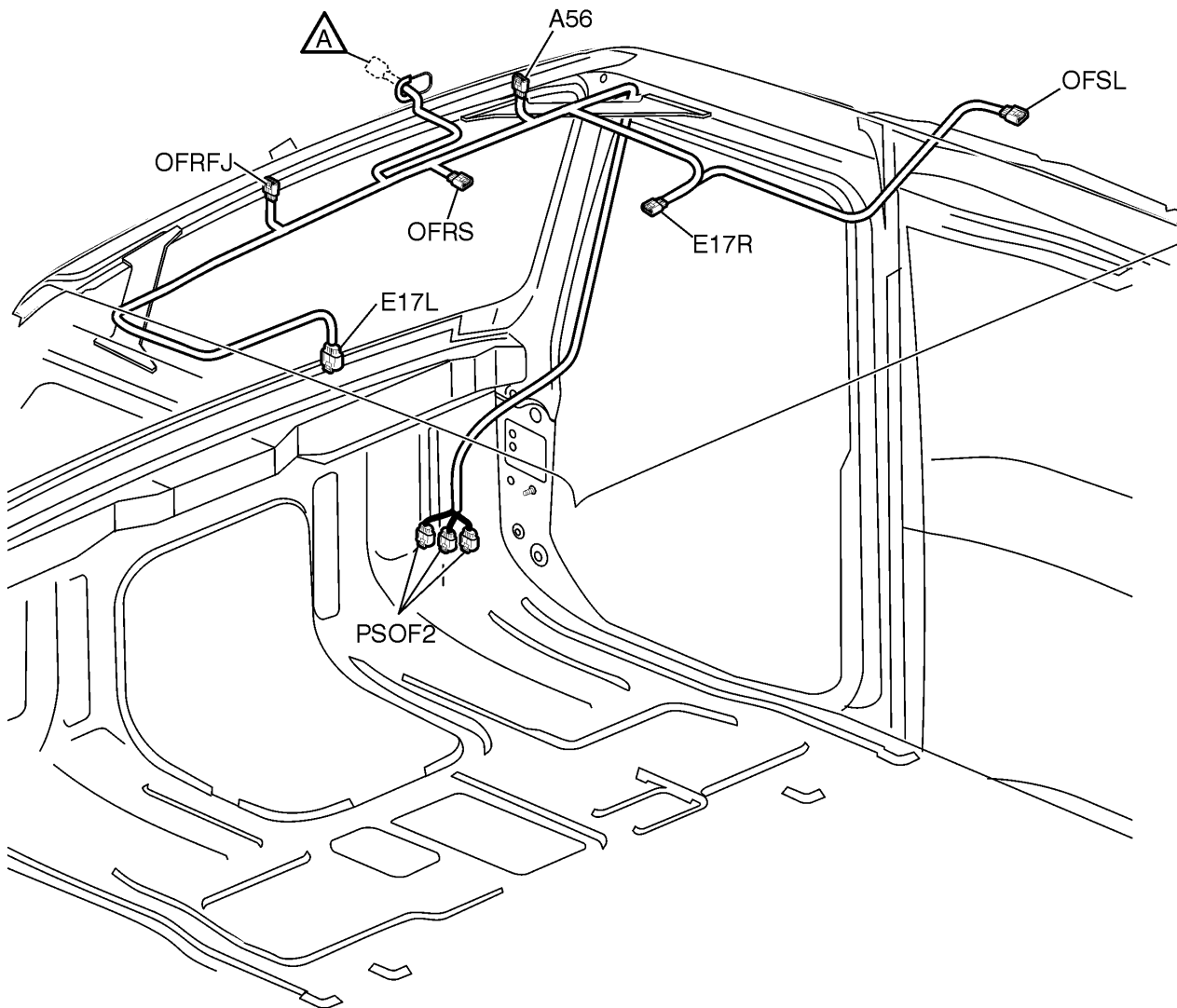


## Sunvisor Harness (Daycab, VN430 and 630)



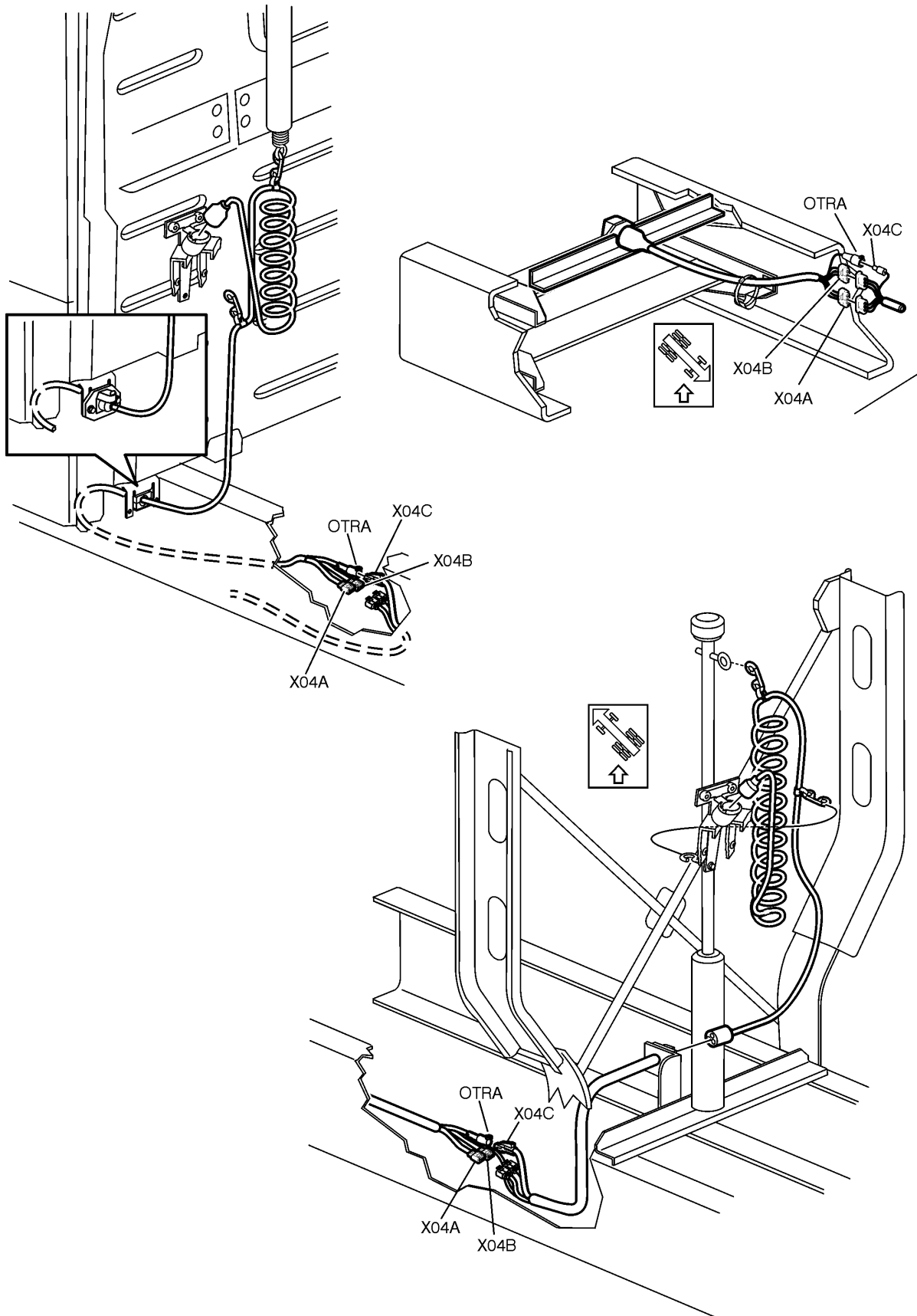
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## Sunvisor Harness (VN670 and 780)



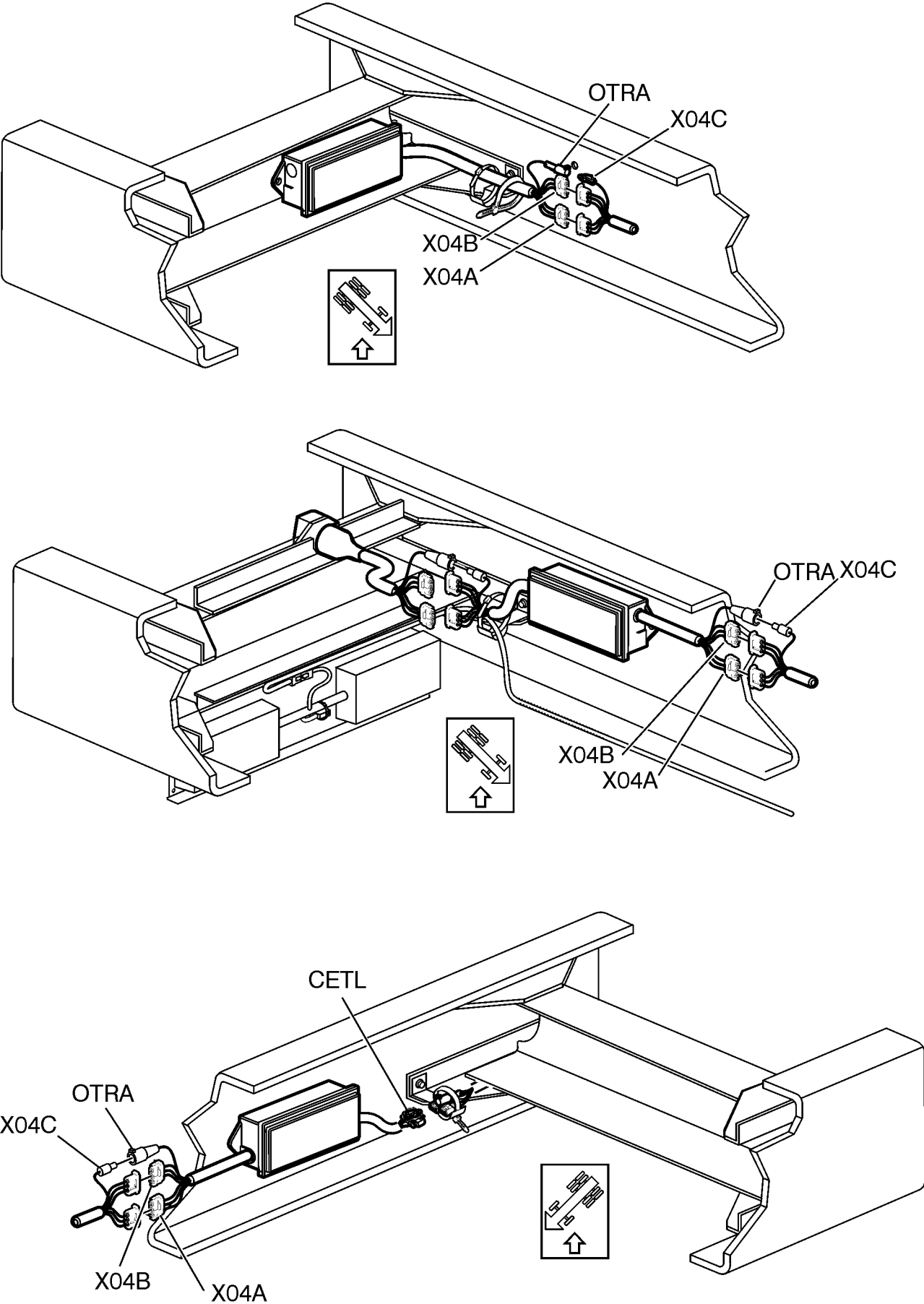
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## Trailer Cable Connections



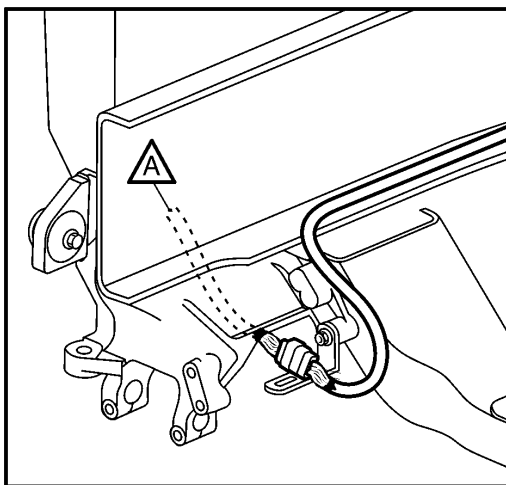
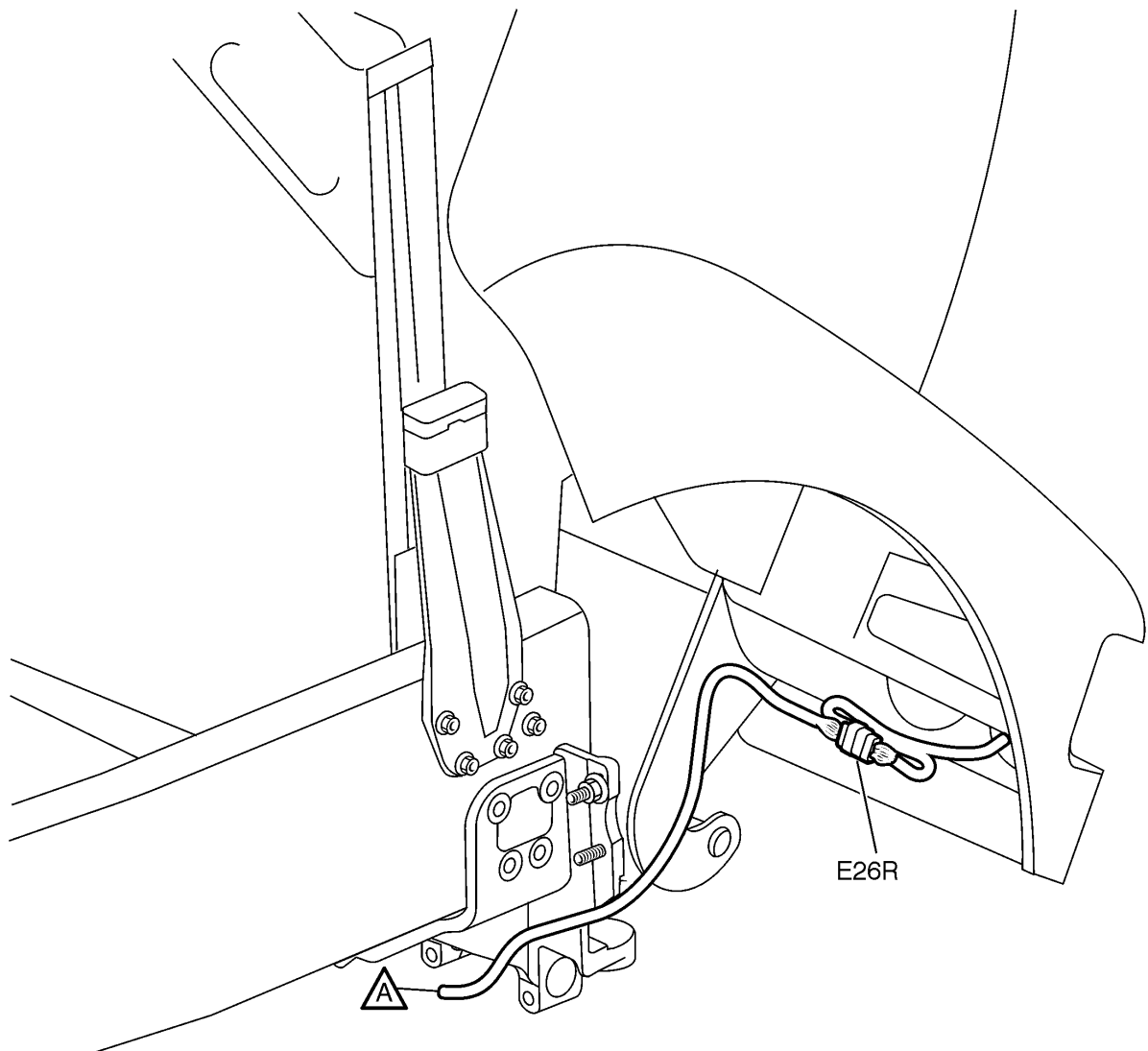
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Bodybuilder Box, VHD

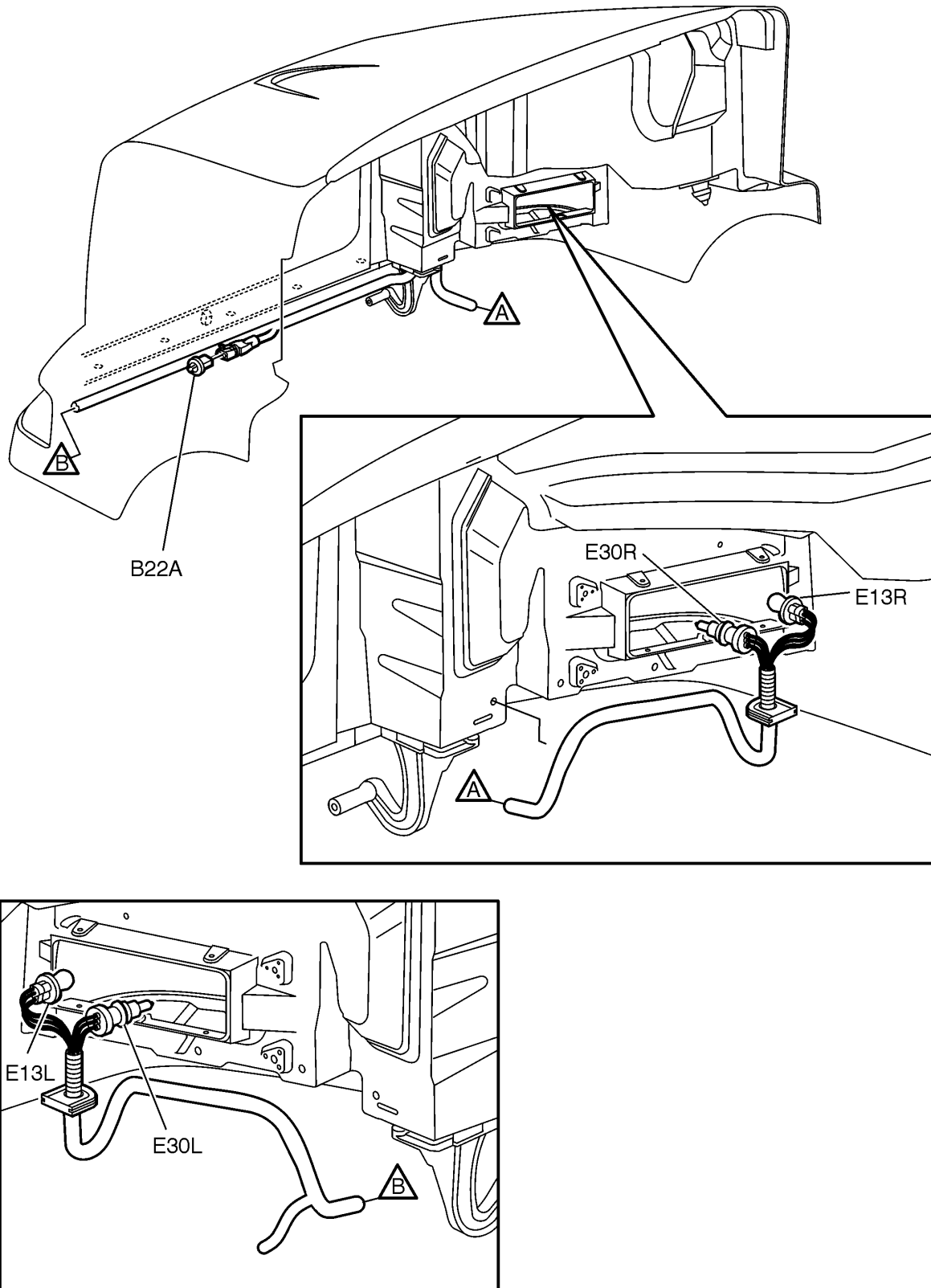


W3006894

## Headlight Harness, VHD

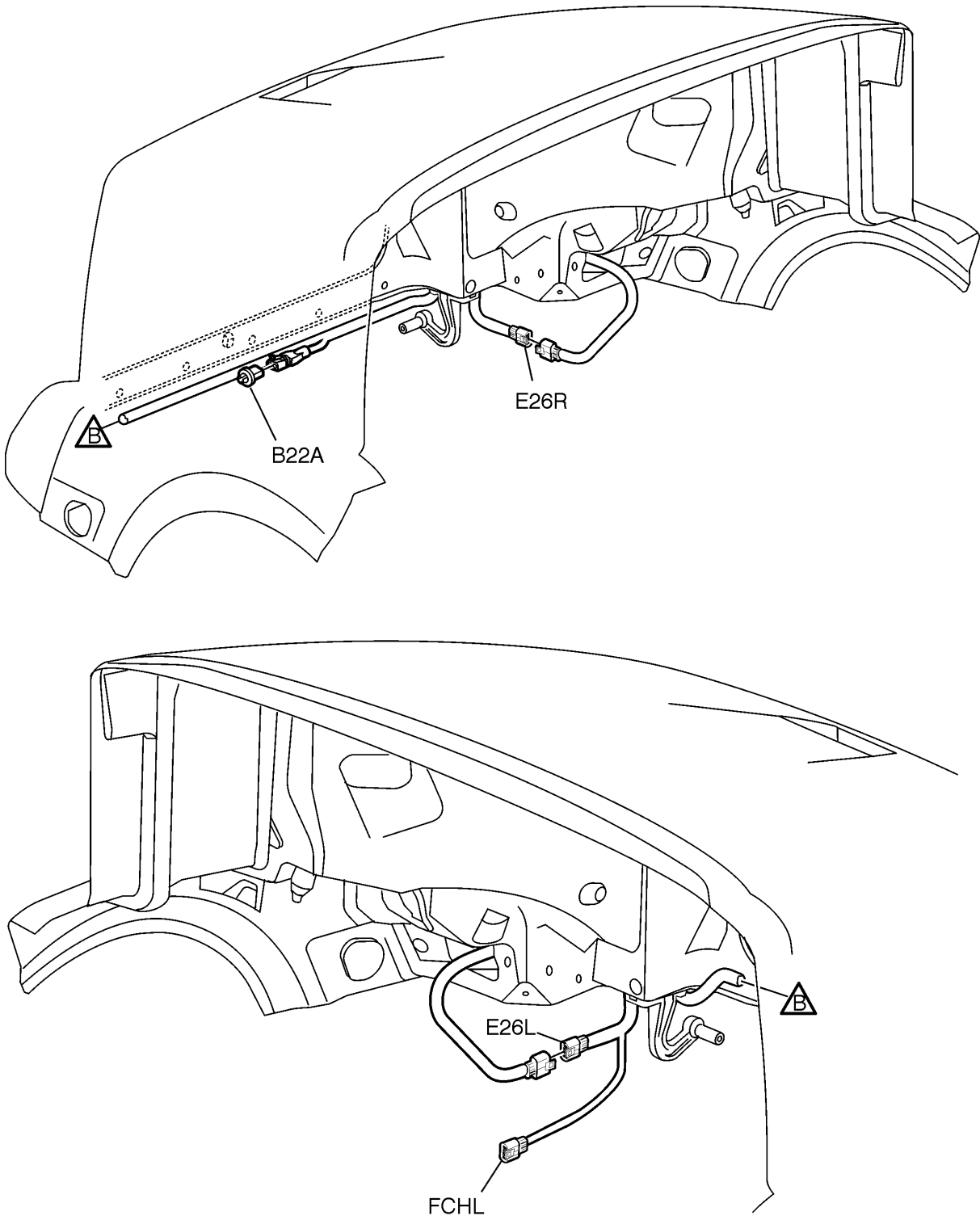


## Headlight Harness, VNM



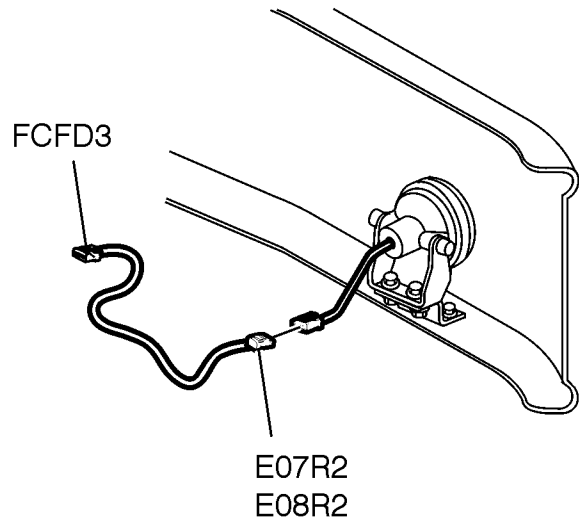
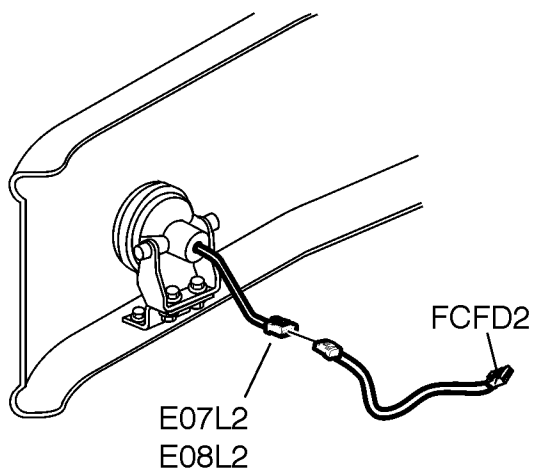
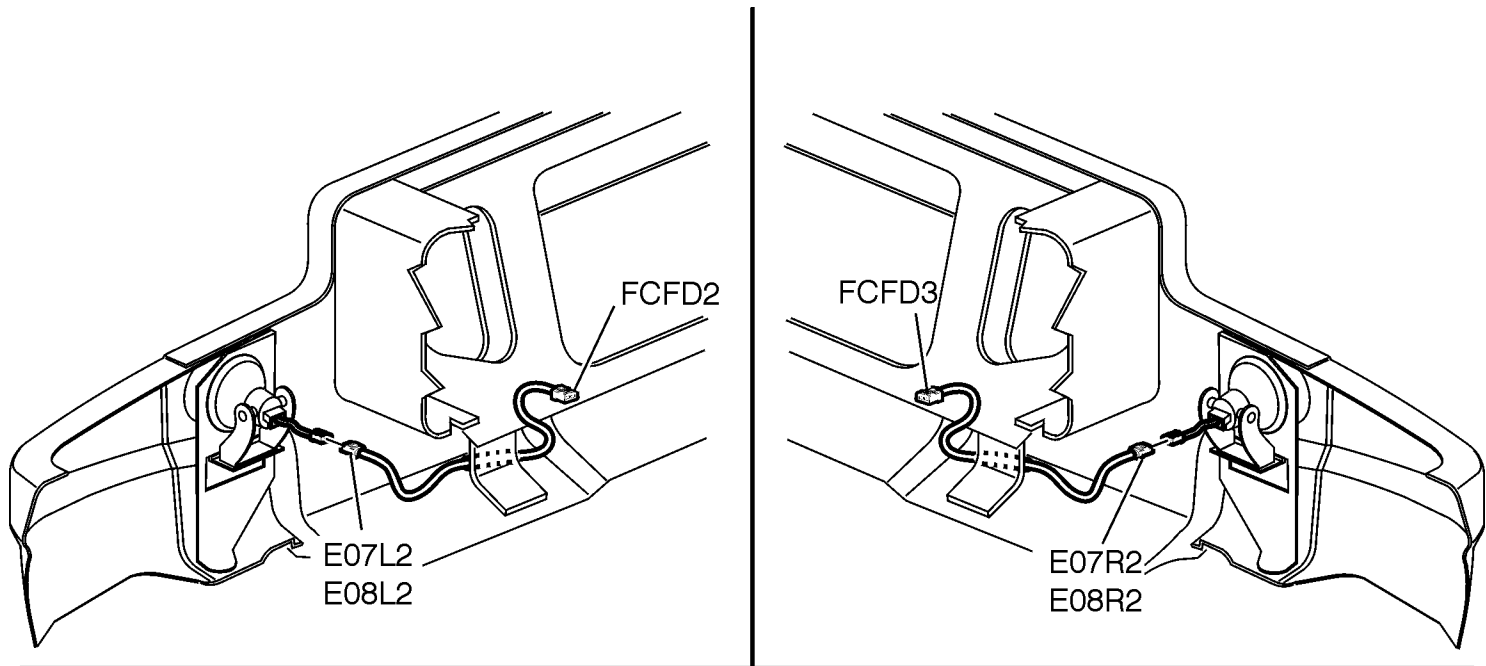
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Headlight Harness, VNL



W3006896

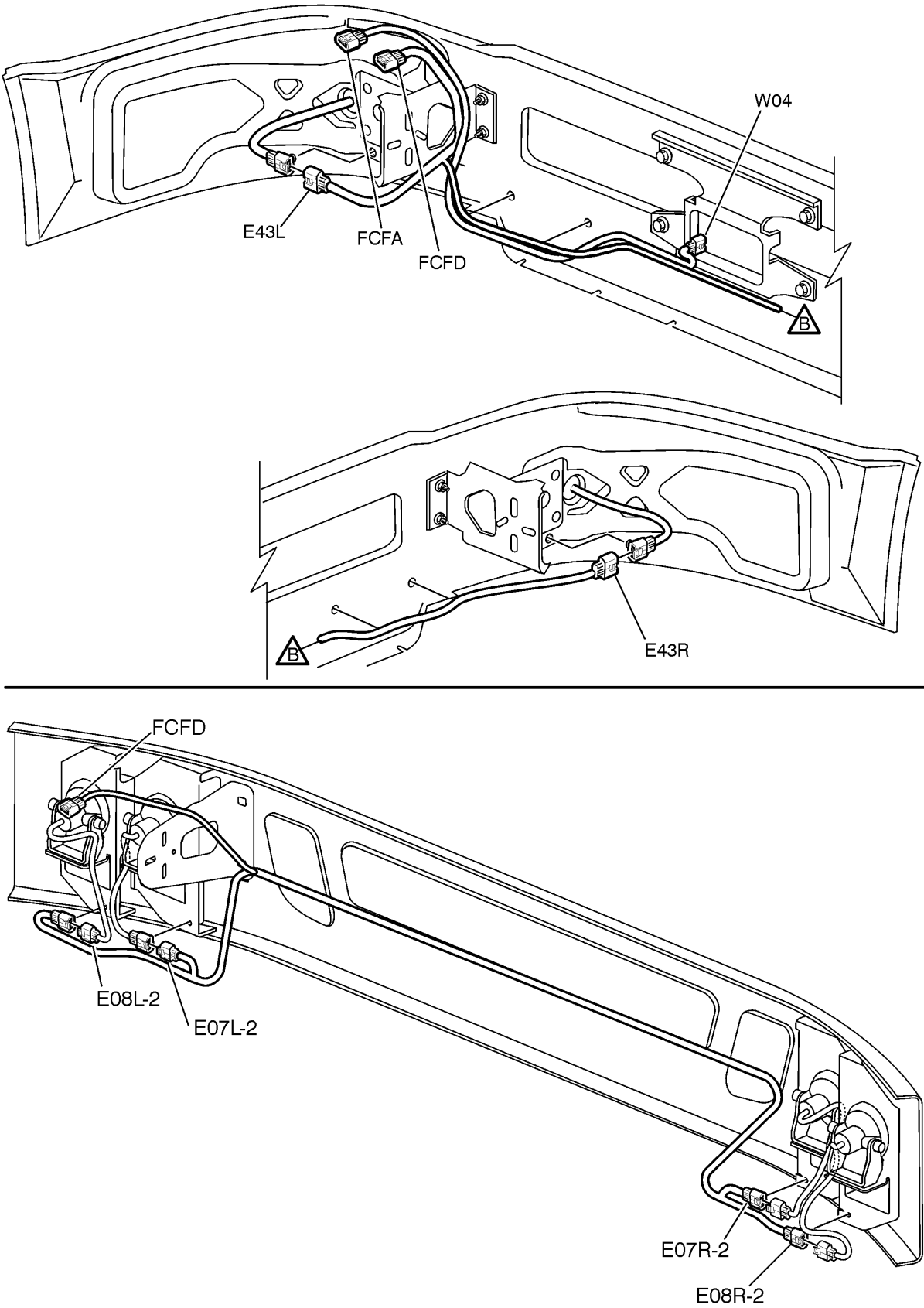
## Fog and Driving Lights, VHD



W3005952

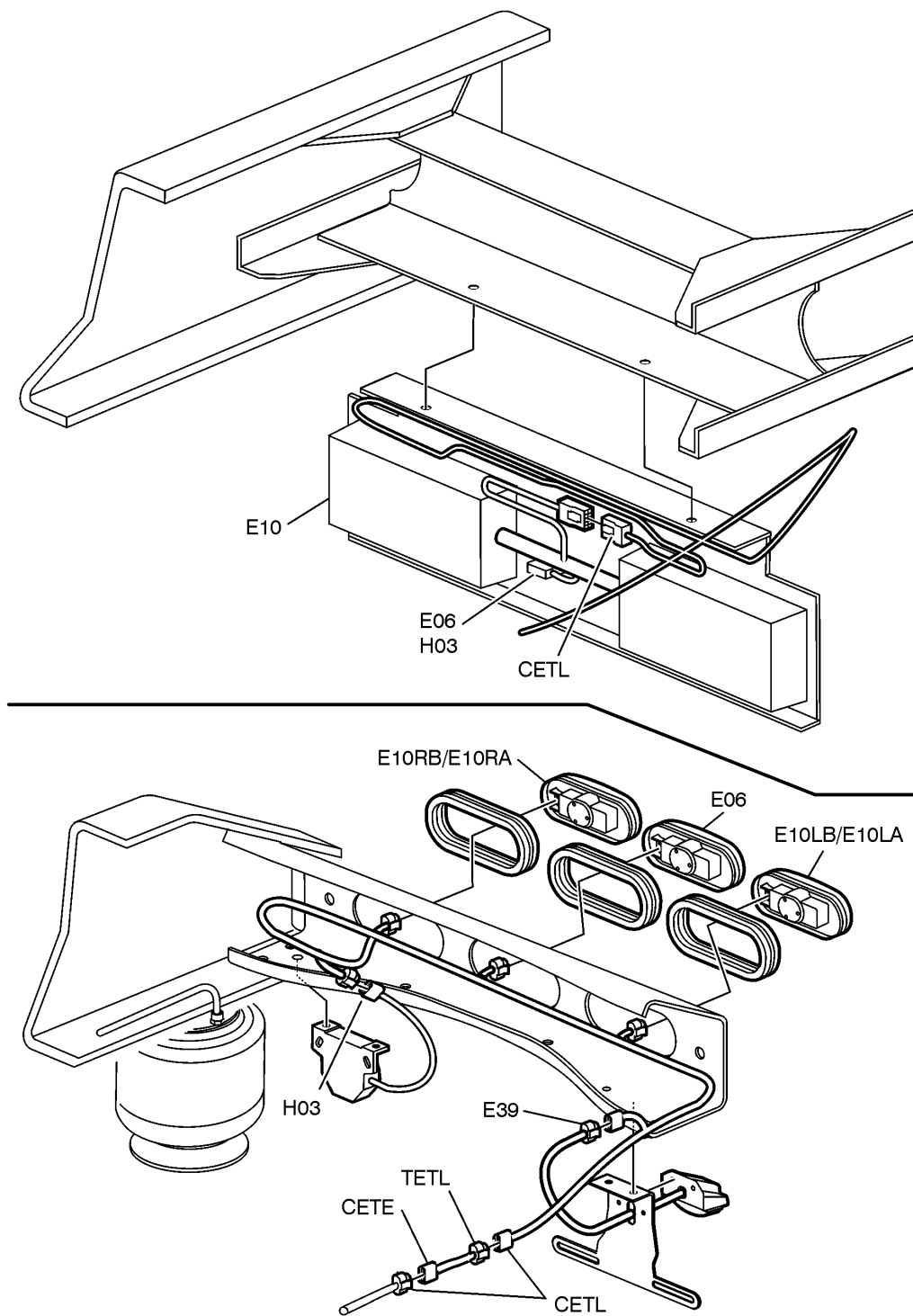


Fog and Driving Lights, VNL and VNM

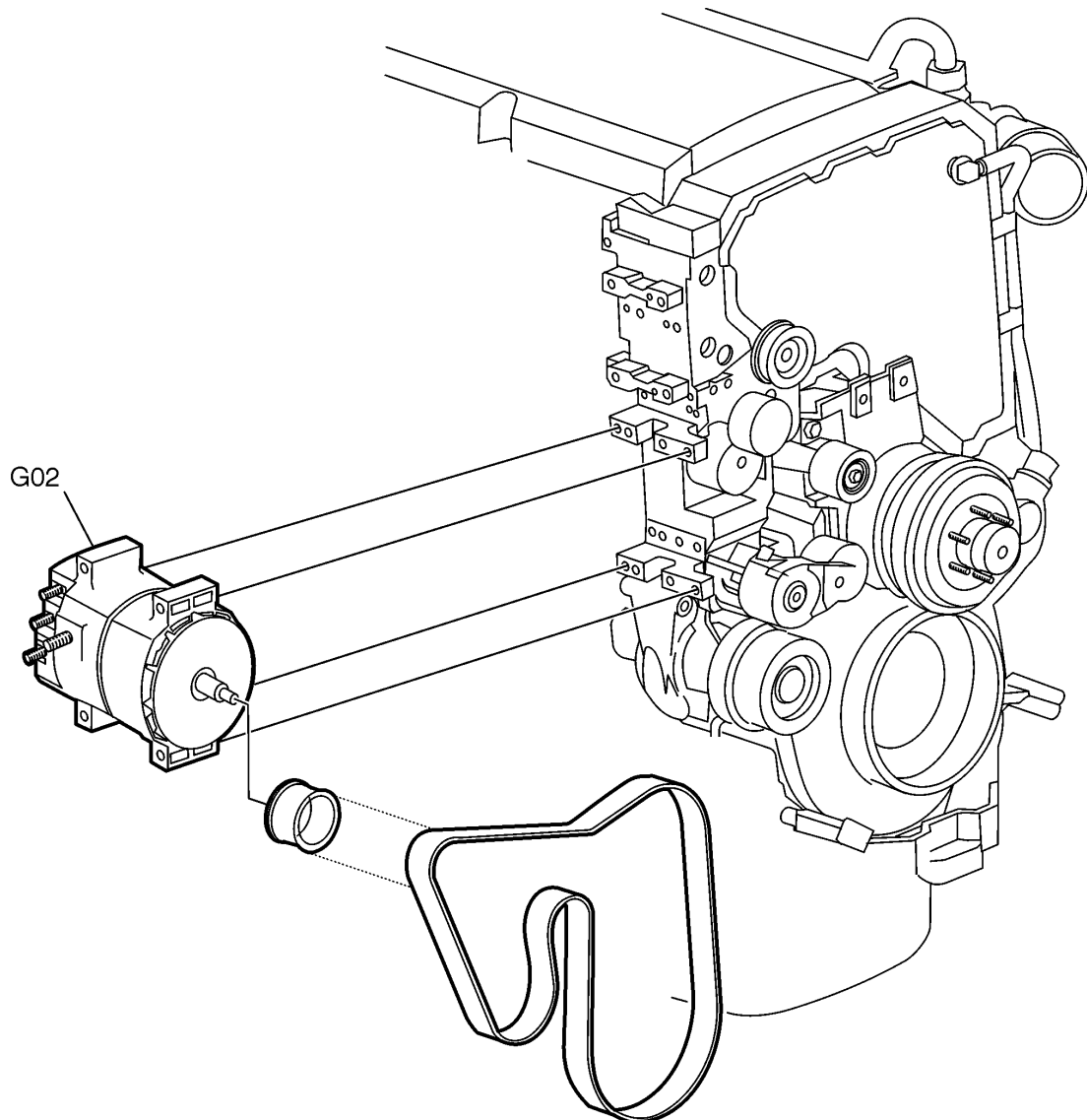


W3005933

## Tail lights

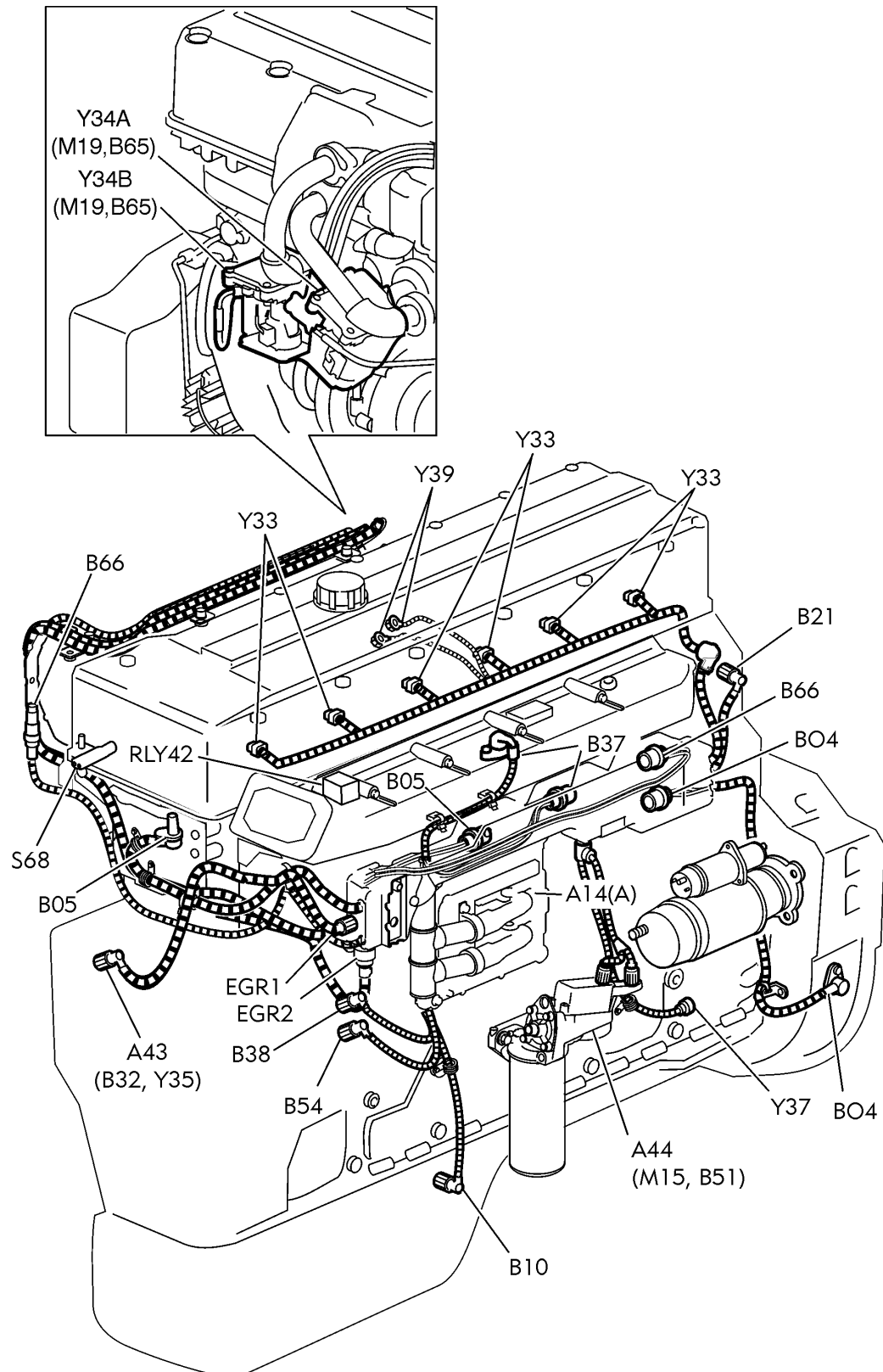


W3006897

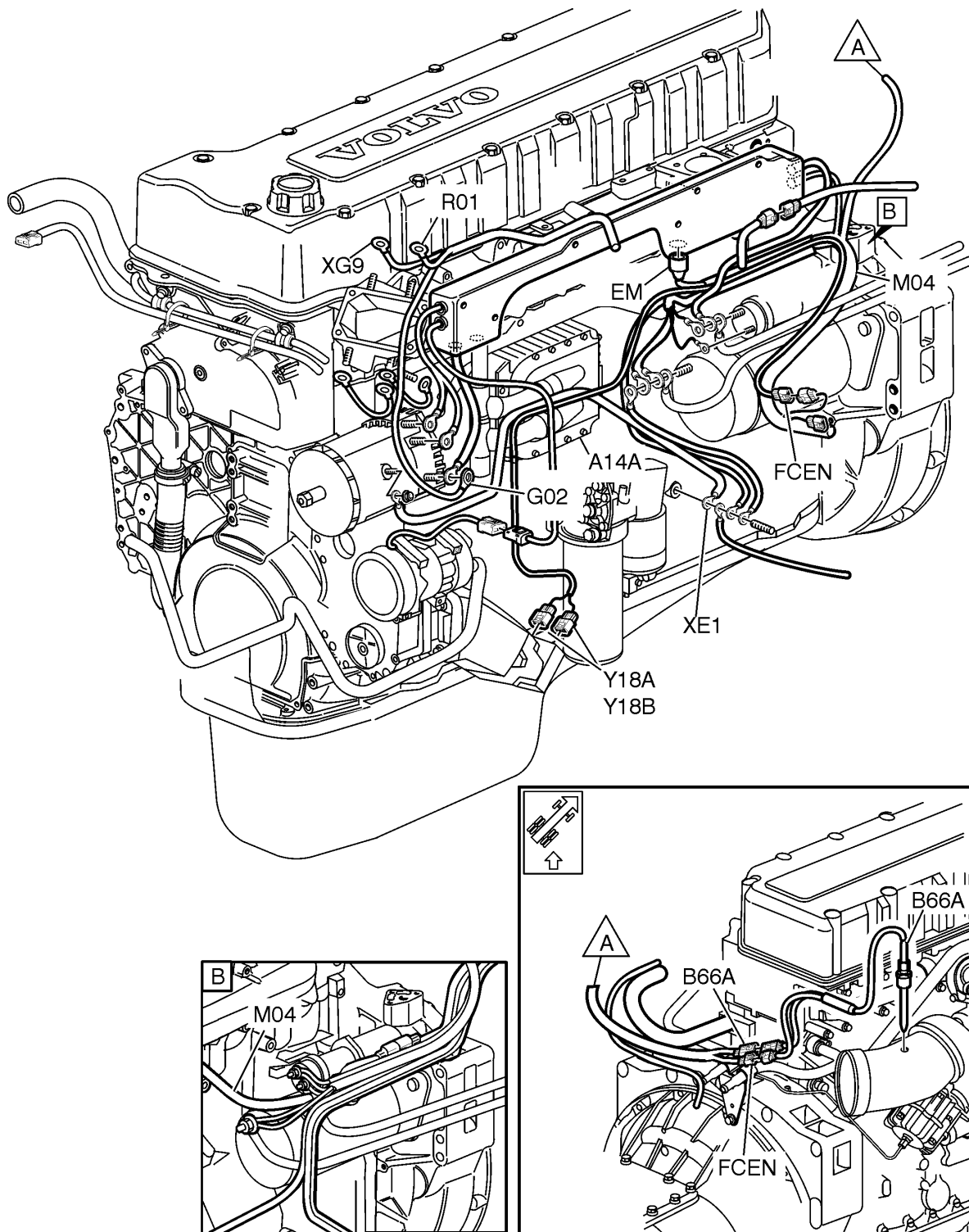
**Alternator (typical view)**

W3005908

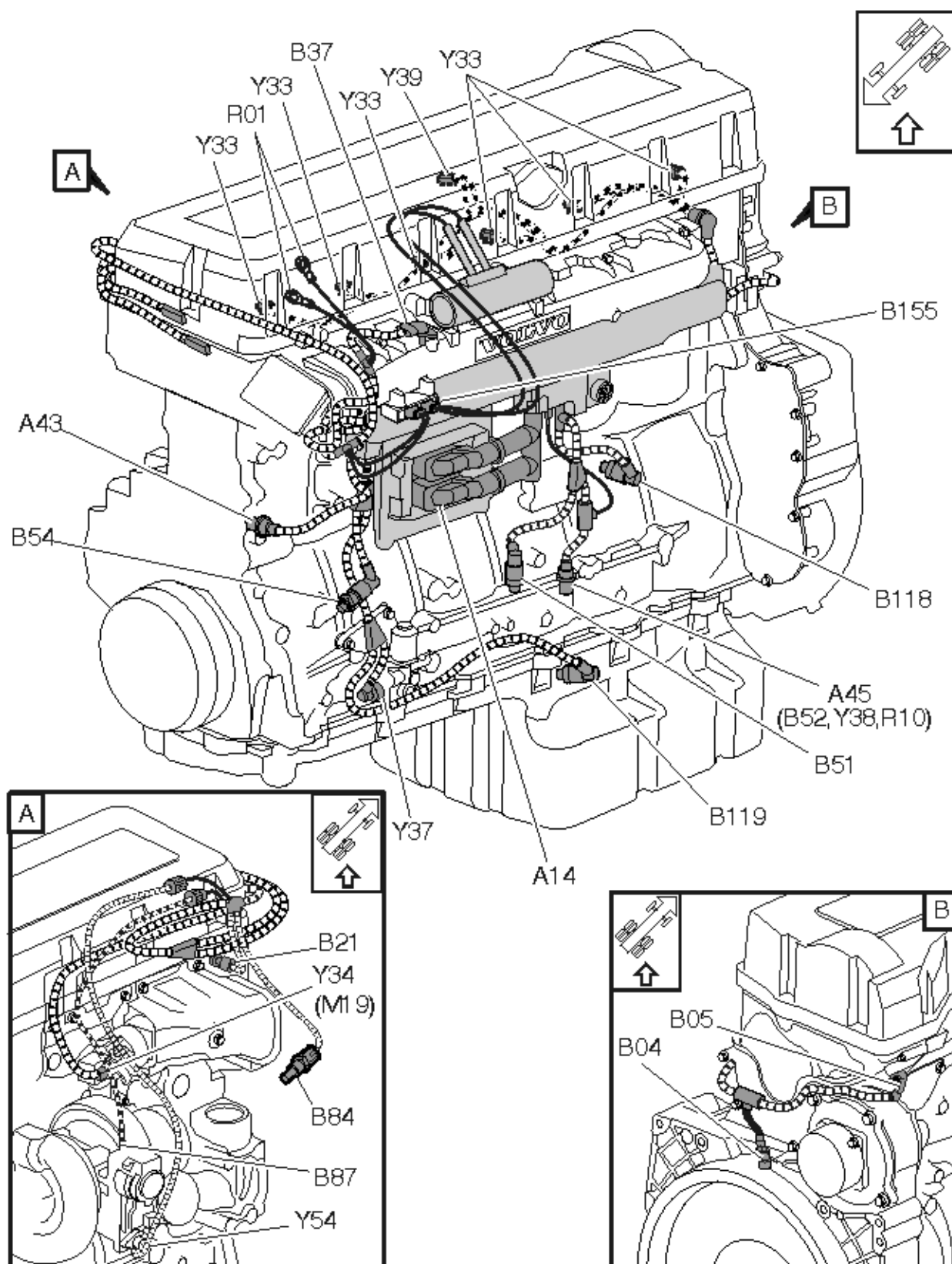
## D12D



W3006510

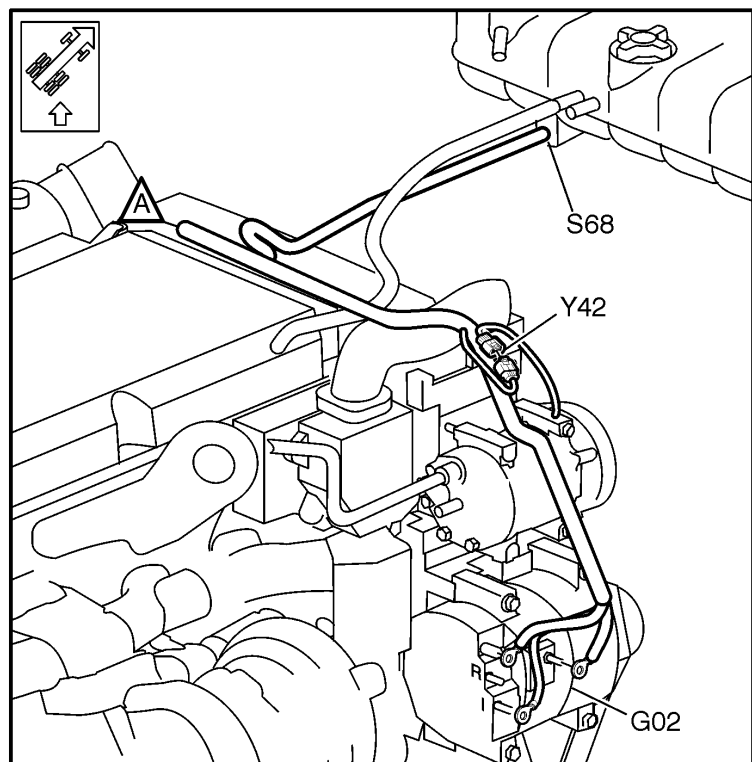
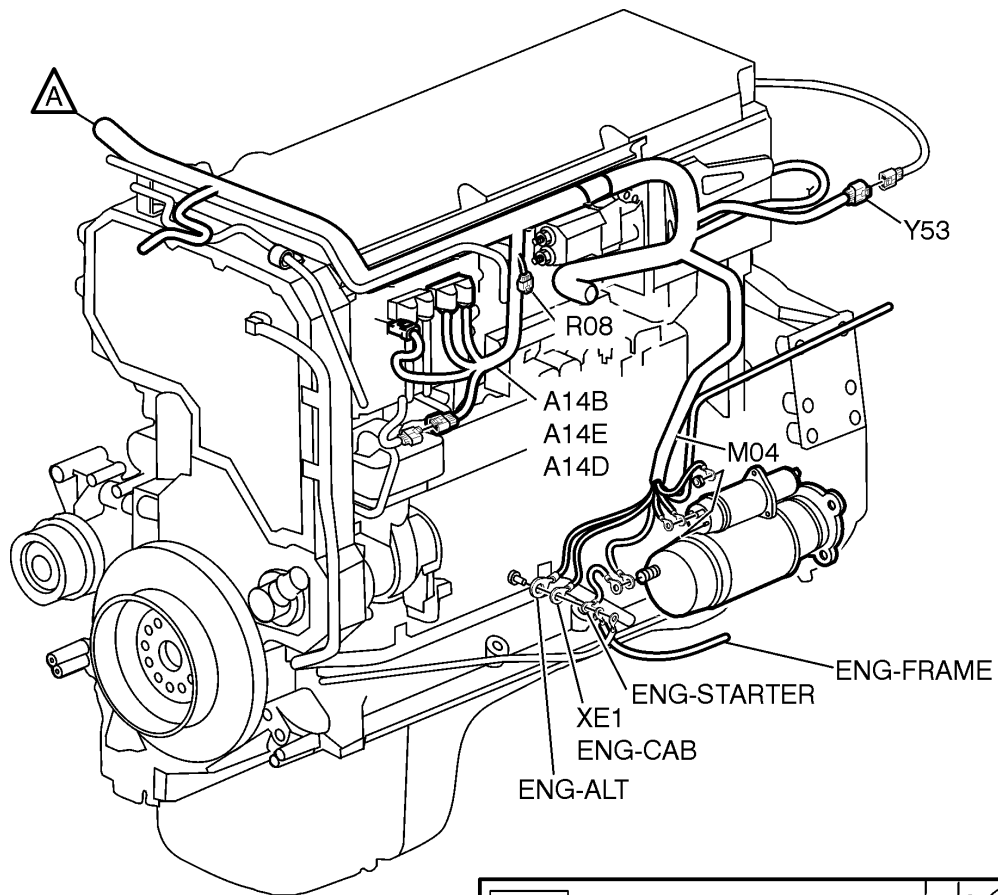
**D12D (Continued)**

## D16D

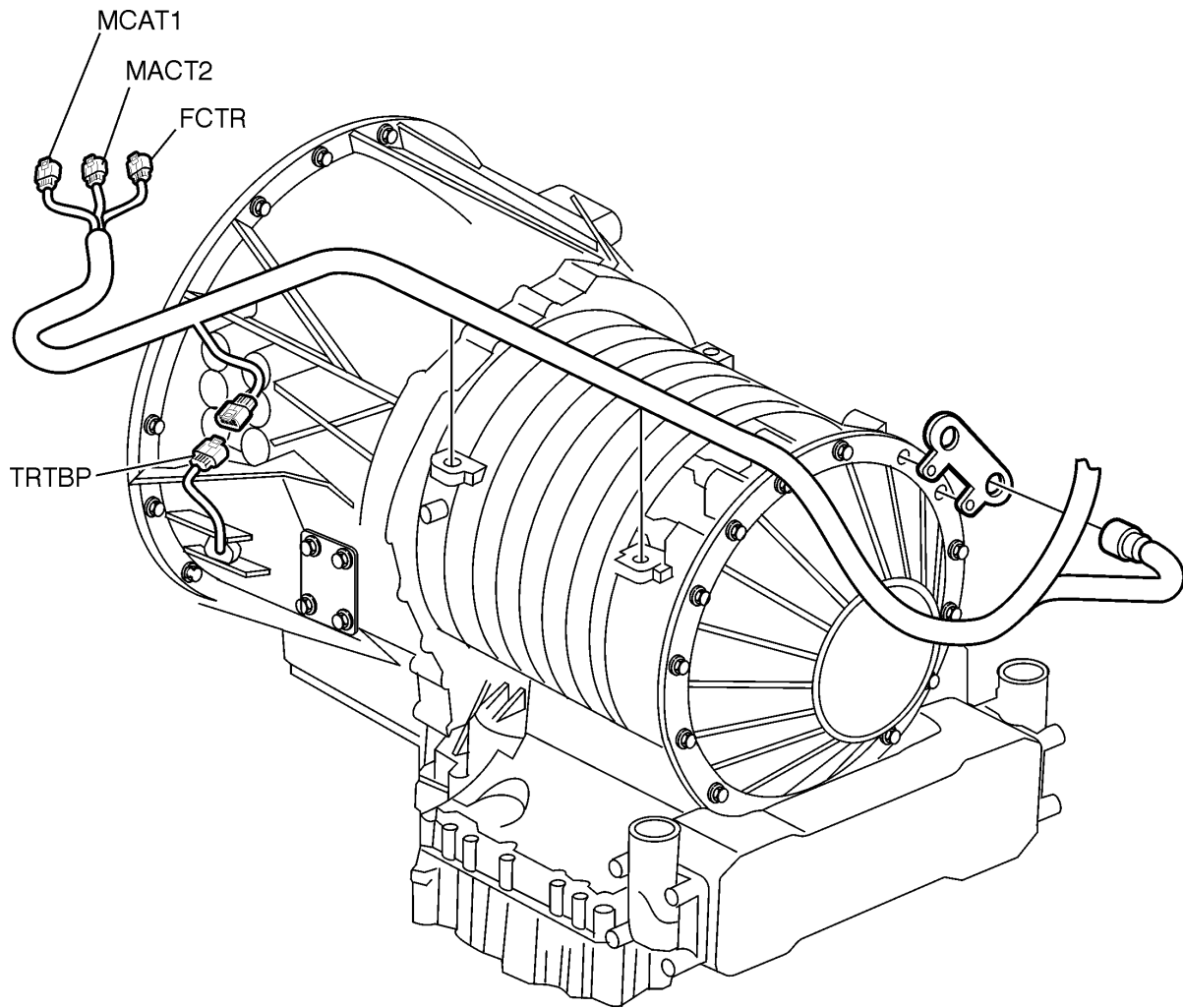


W3006882

## Engine, Cummins ISX



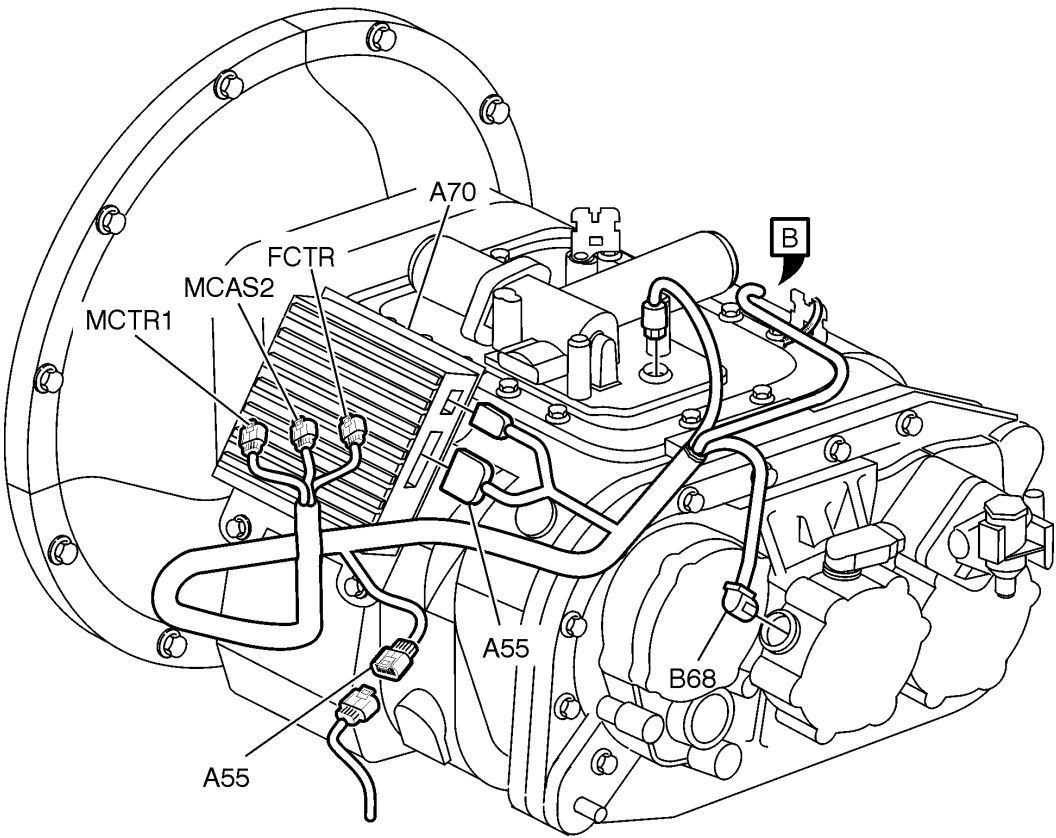
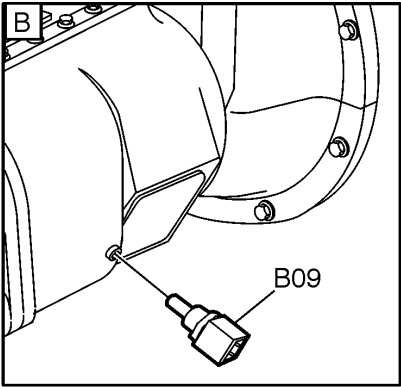
W3006509

**Allison HD Transmission, VHD (BBOX-LF)**

W3006626

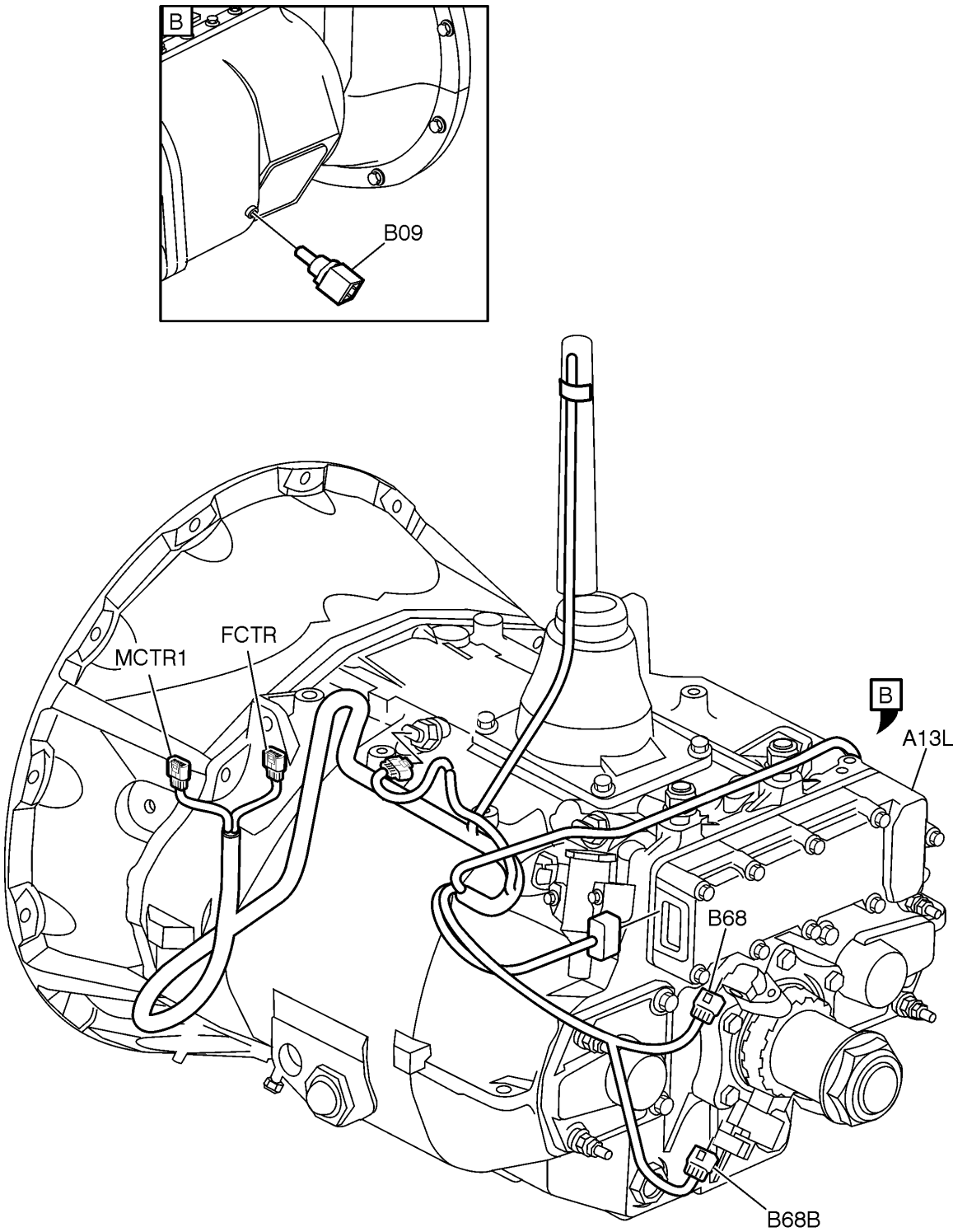


Eaton Autoshift II Transmission



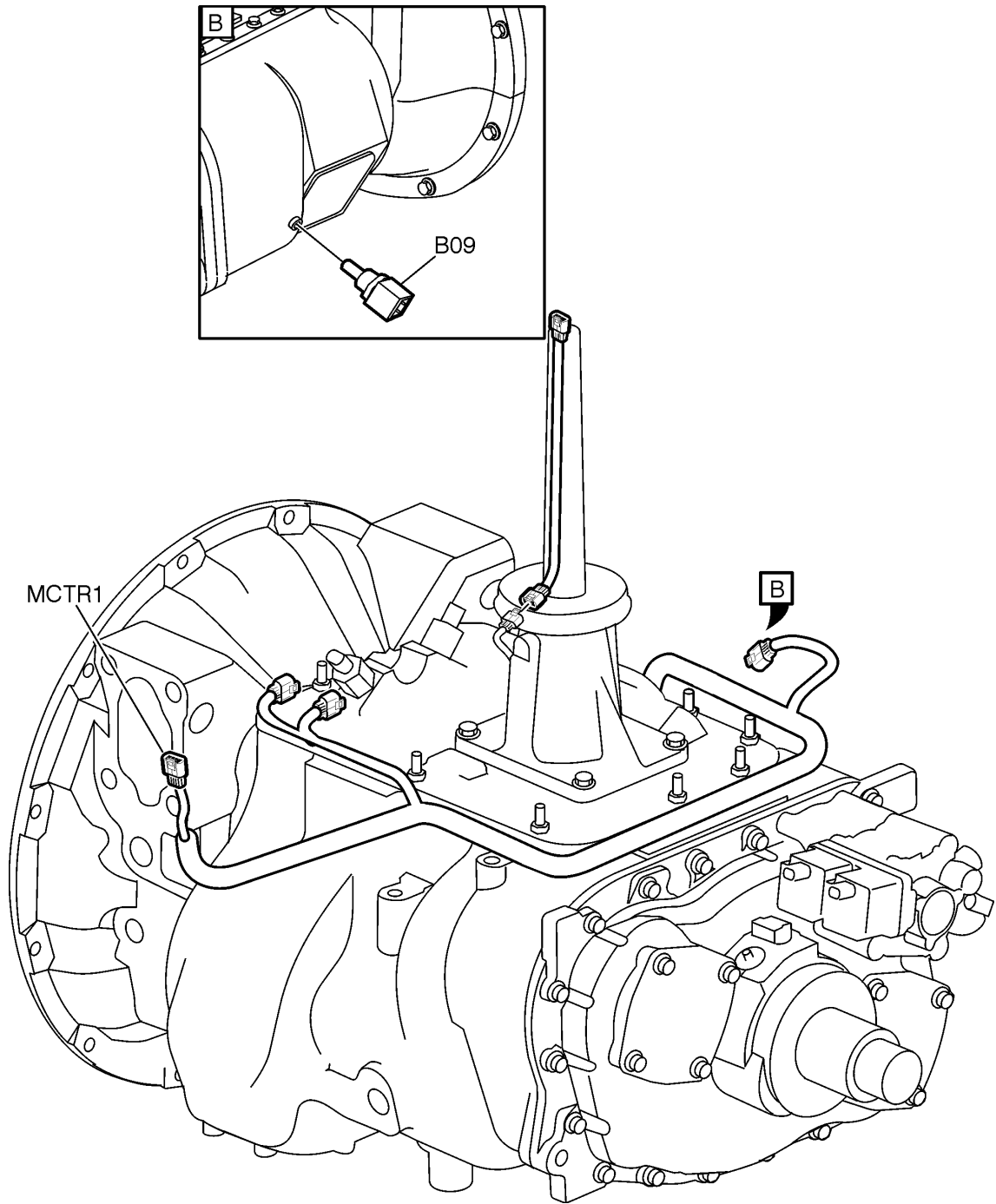
W3005890

Eaton Lightning/Eaton Ultrashift II Transmission



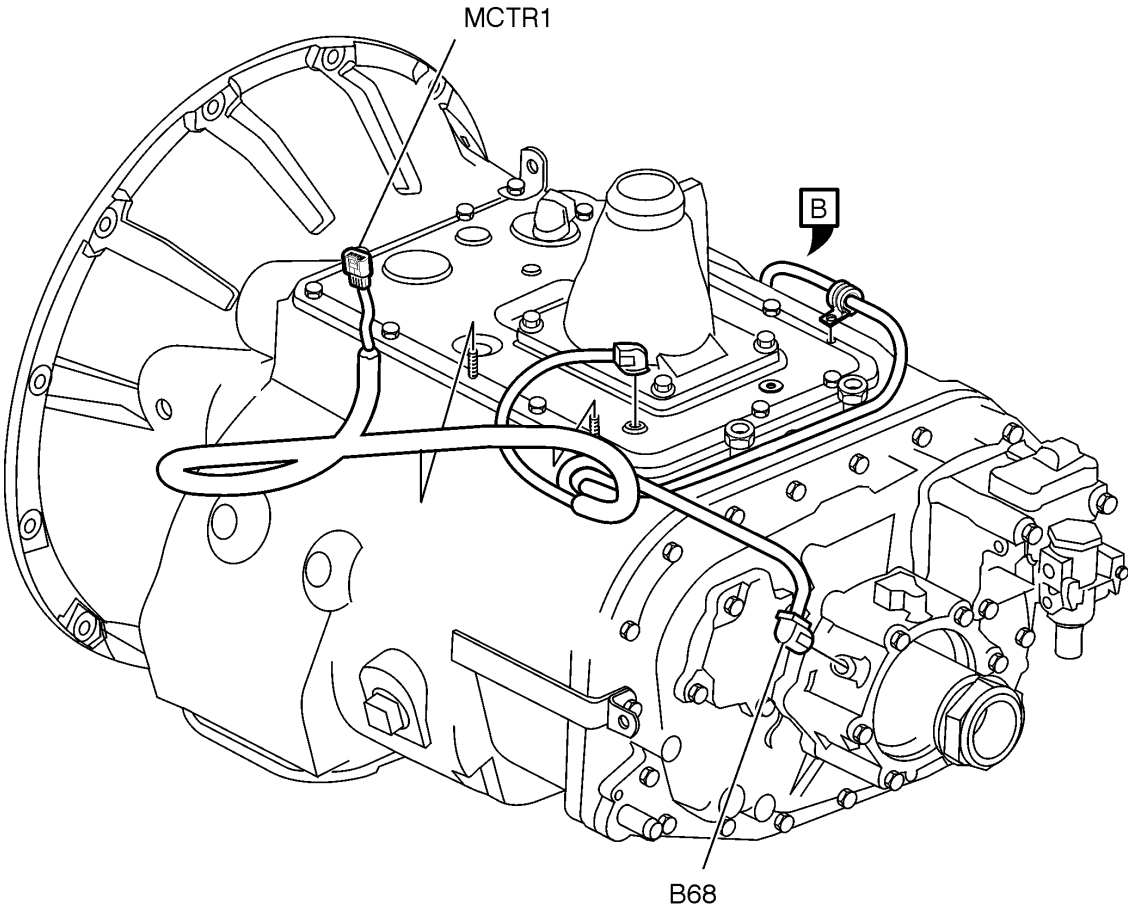
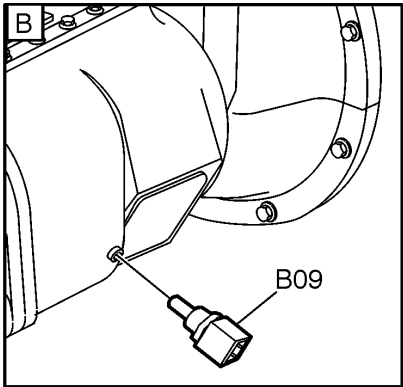
W3005891

# Meritor Transmission



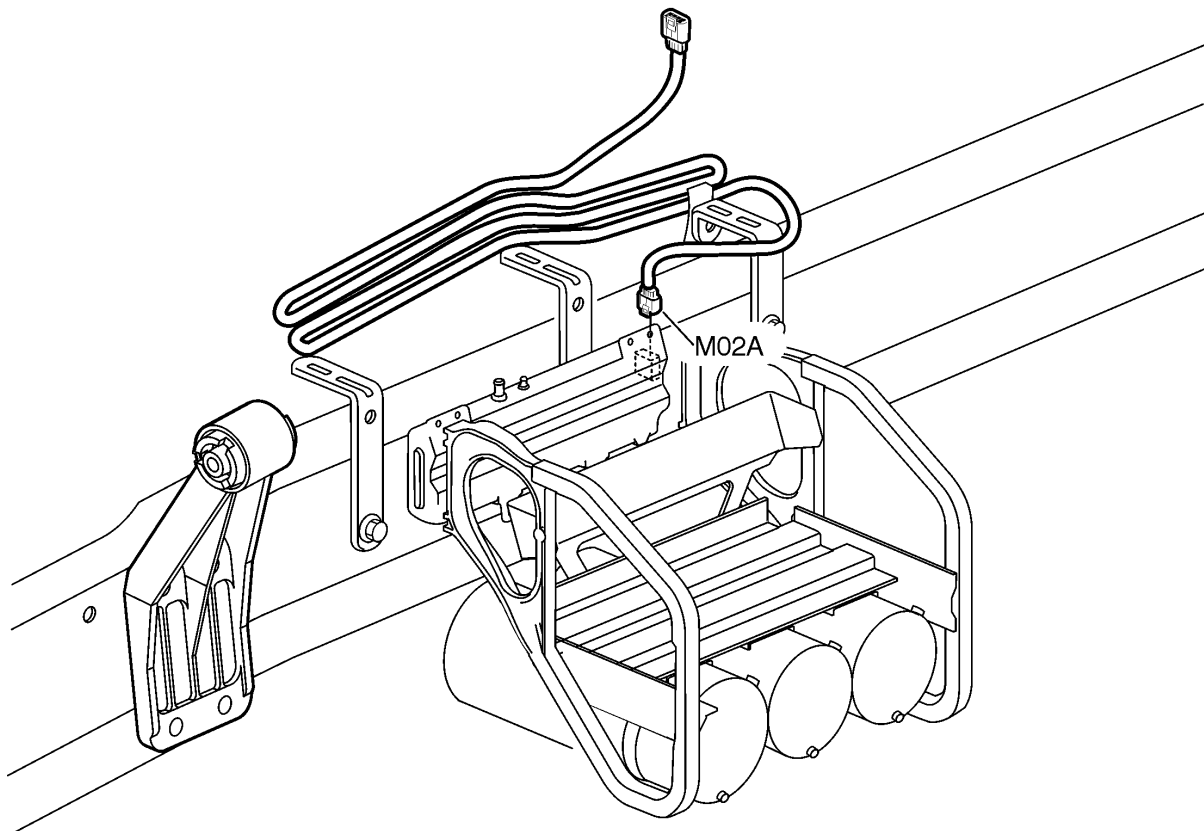
W3005892

Eaton Fuller Transmission



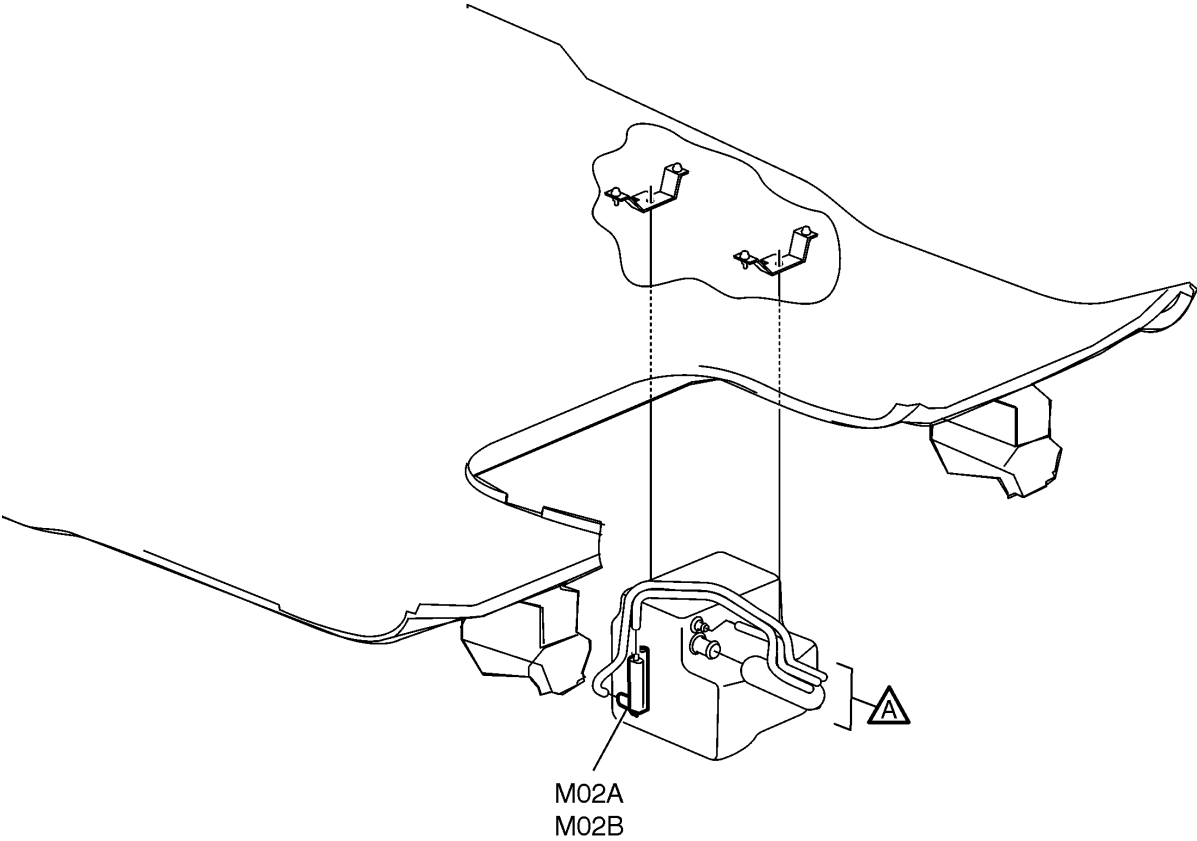
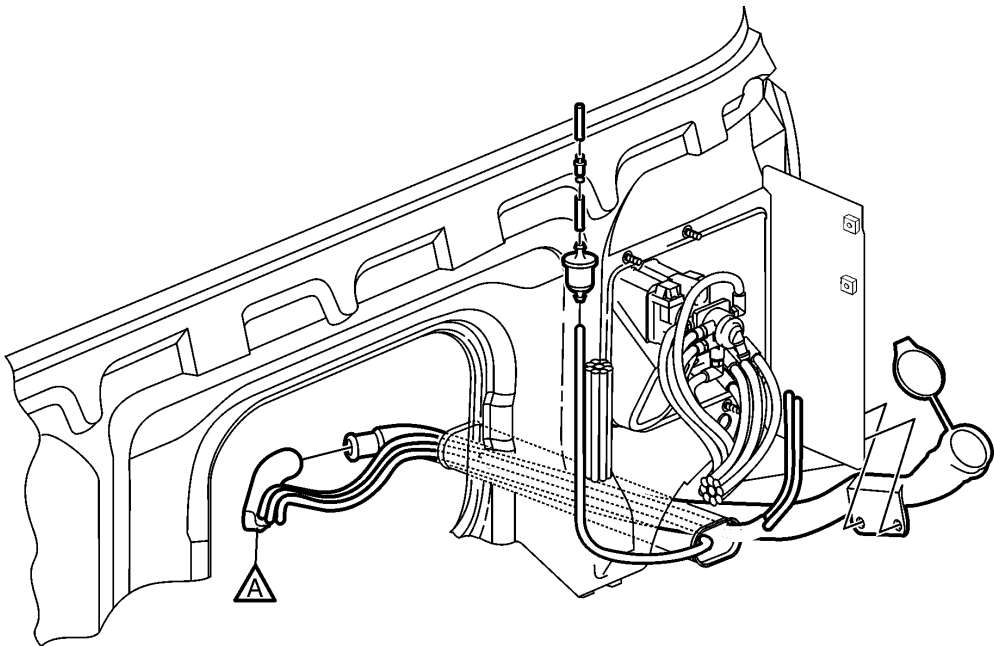
W3005893

Washer Reservoir, VN



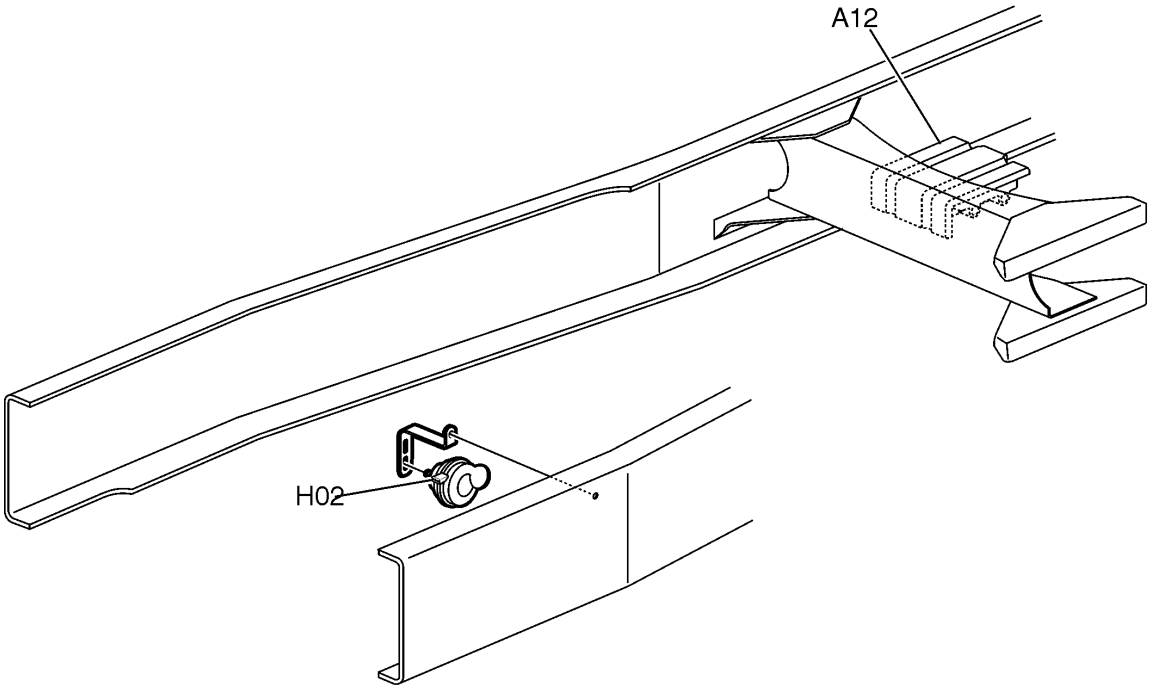
W3006898

Washer Reservoir, VHD



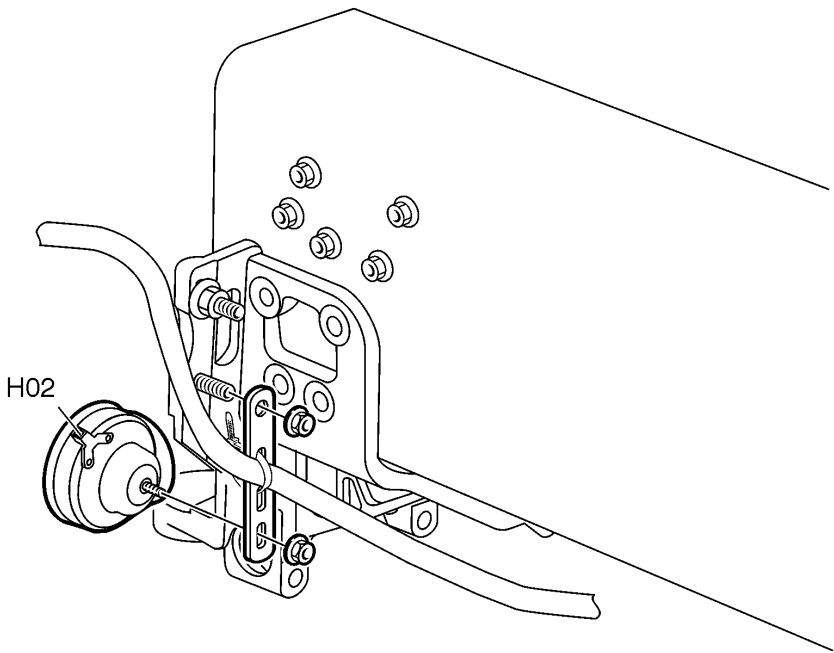
W3005910

**Horn**

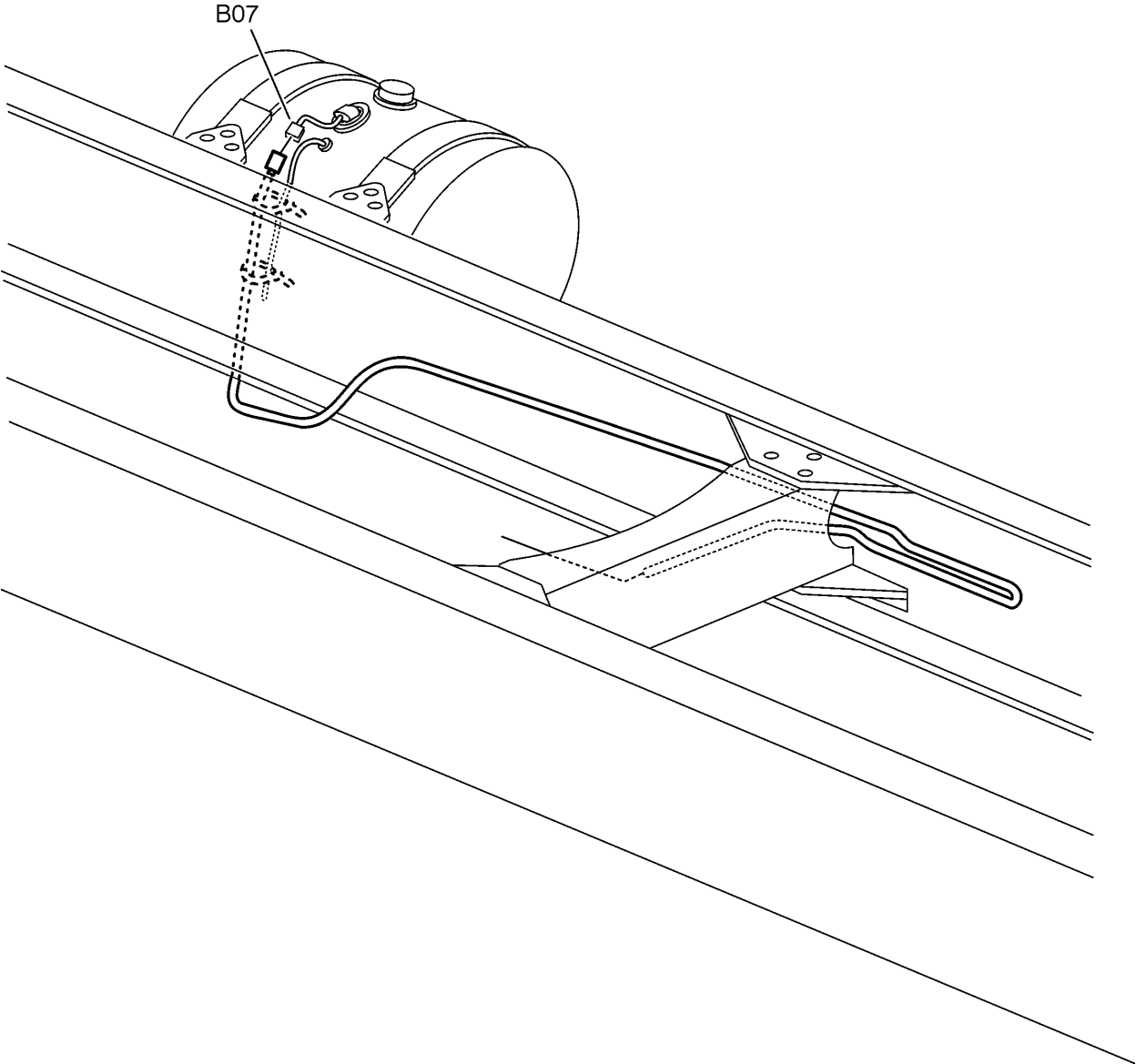
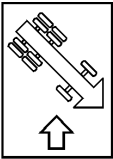


VN

VHD



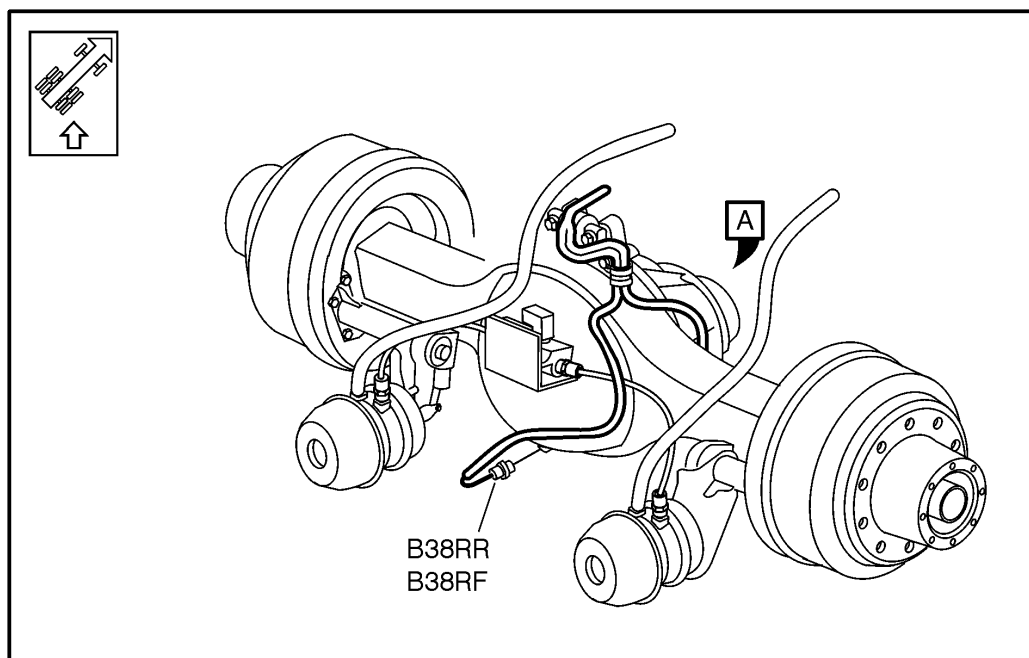
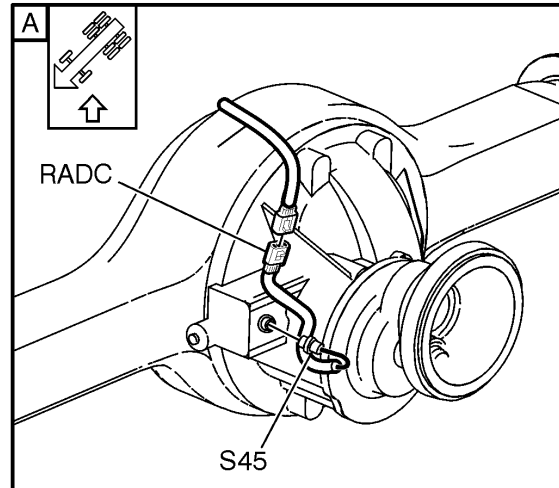
Fuel Level Sensor



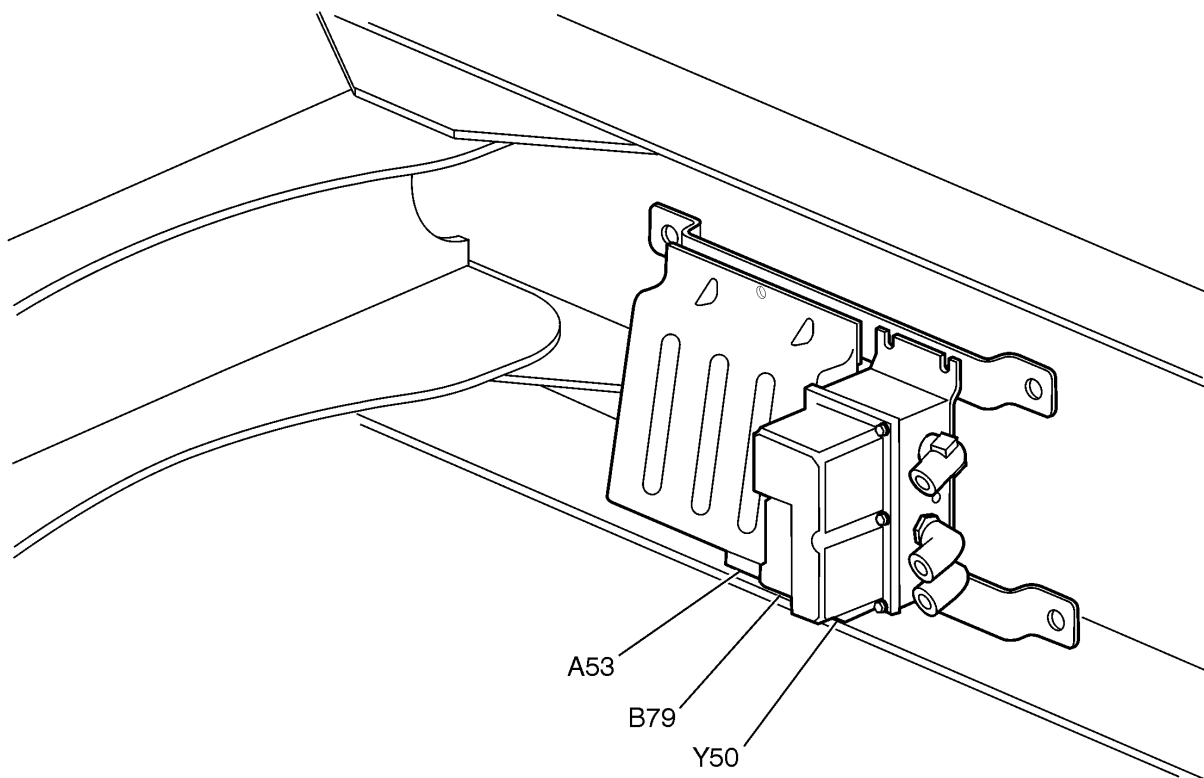
W3005909



## Differential Lock/Axle Temperature

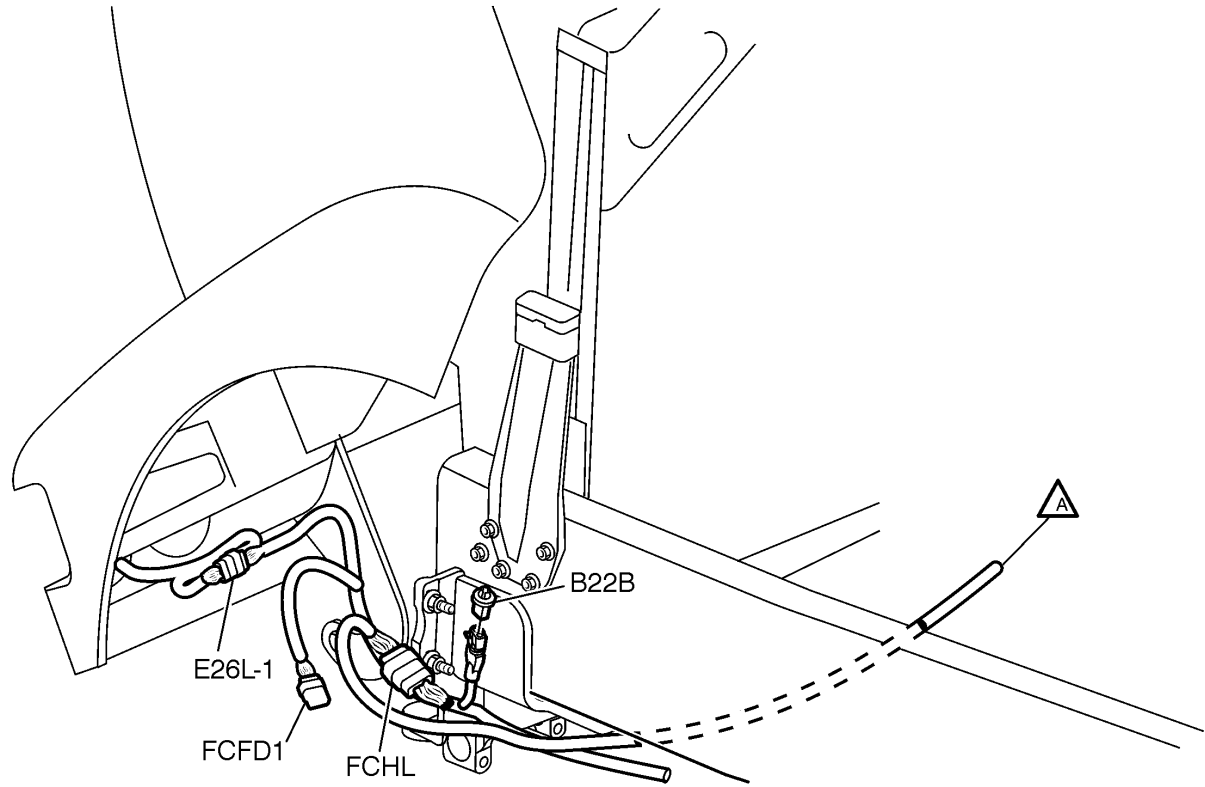
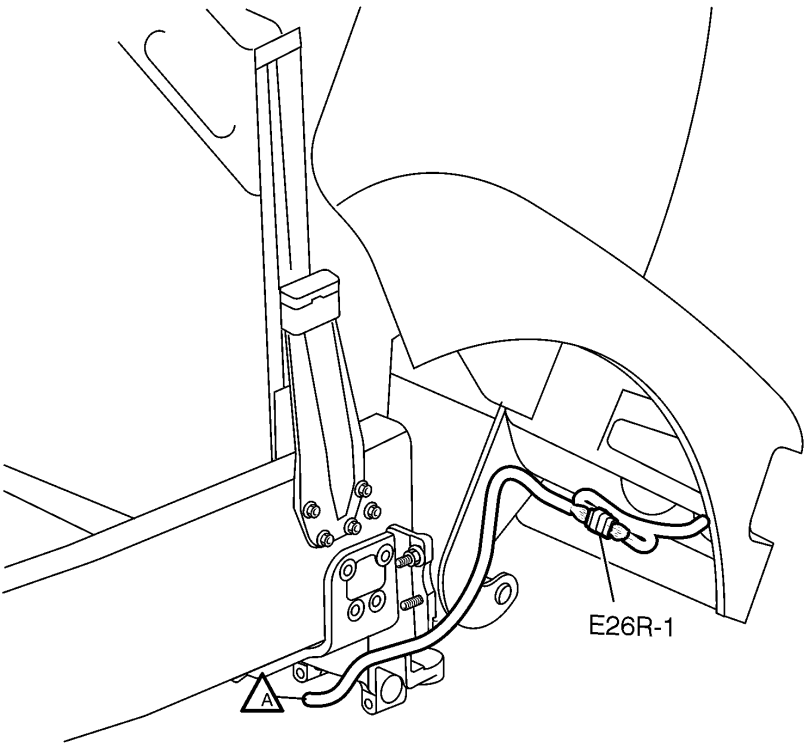


## Central Tire Inflation System



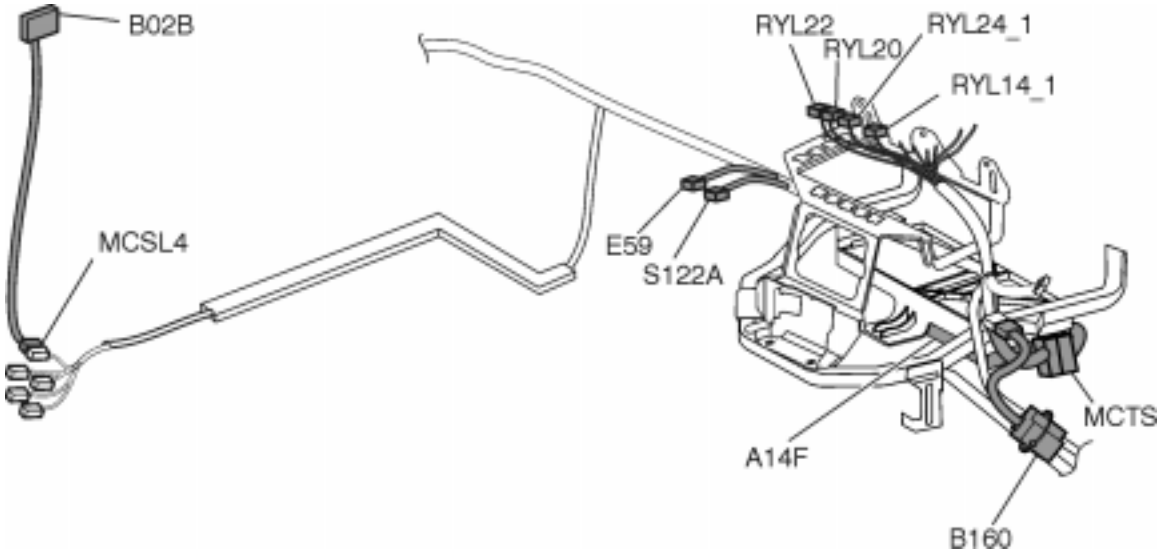
W3005930

# Ambient Temperature Sensor

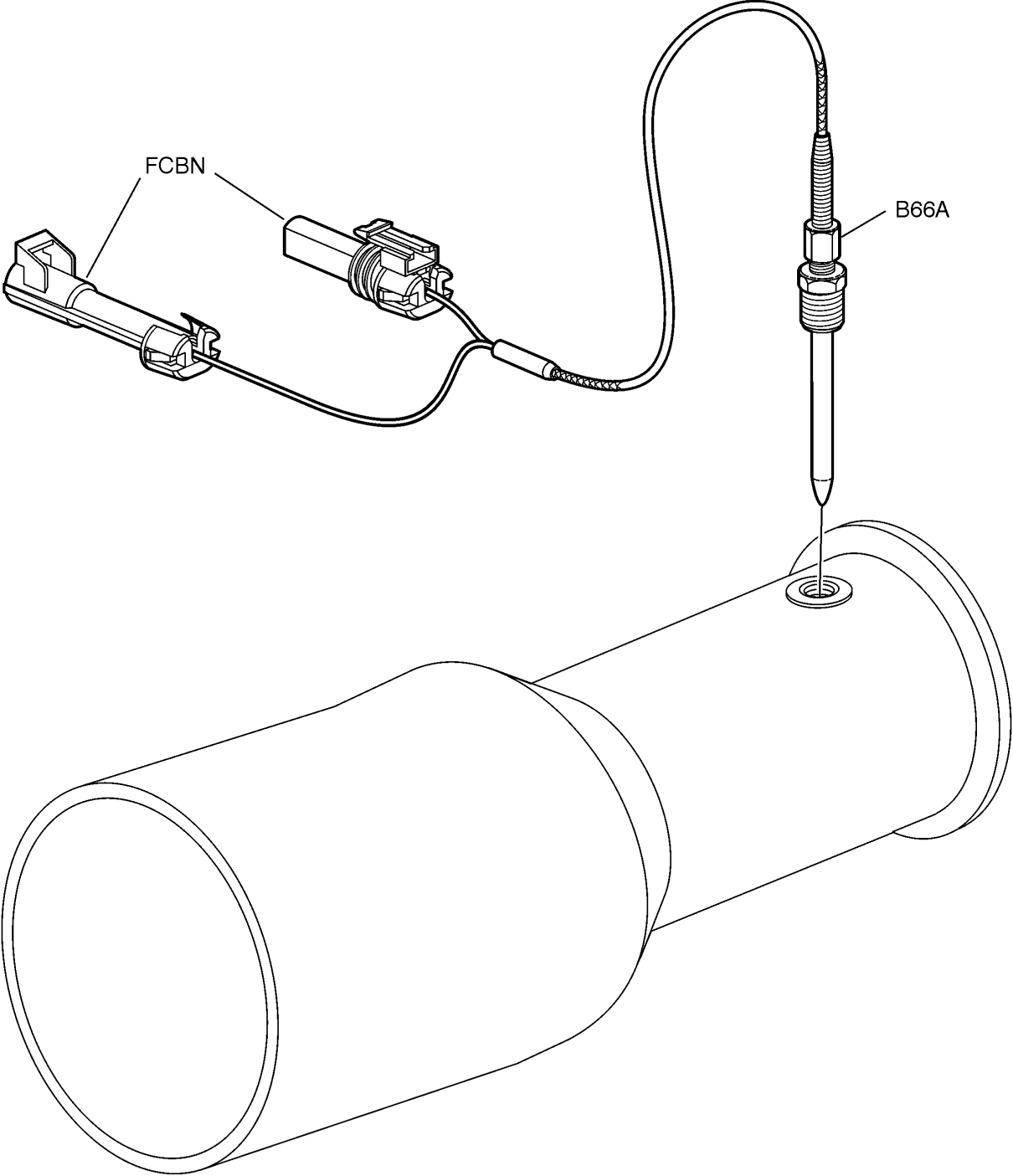
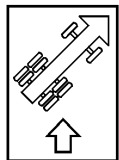


W3006899

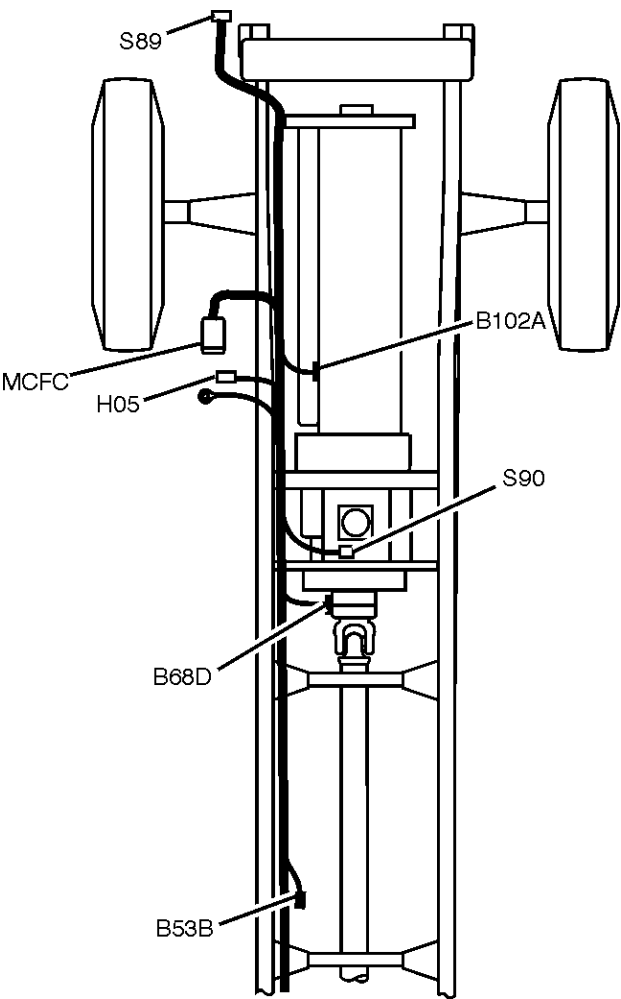
Temp A Start



Pyrometer Sensor

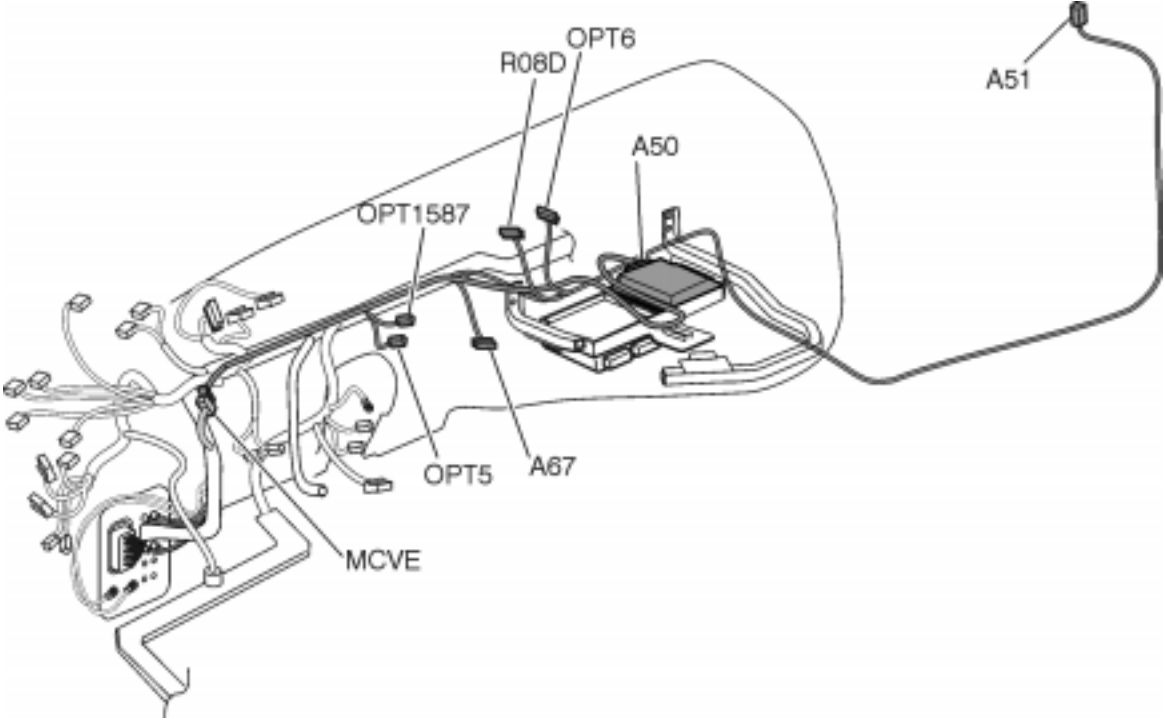


Chassis Harness



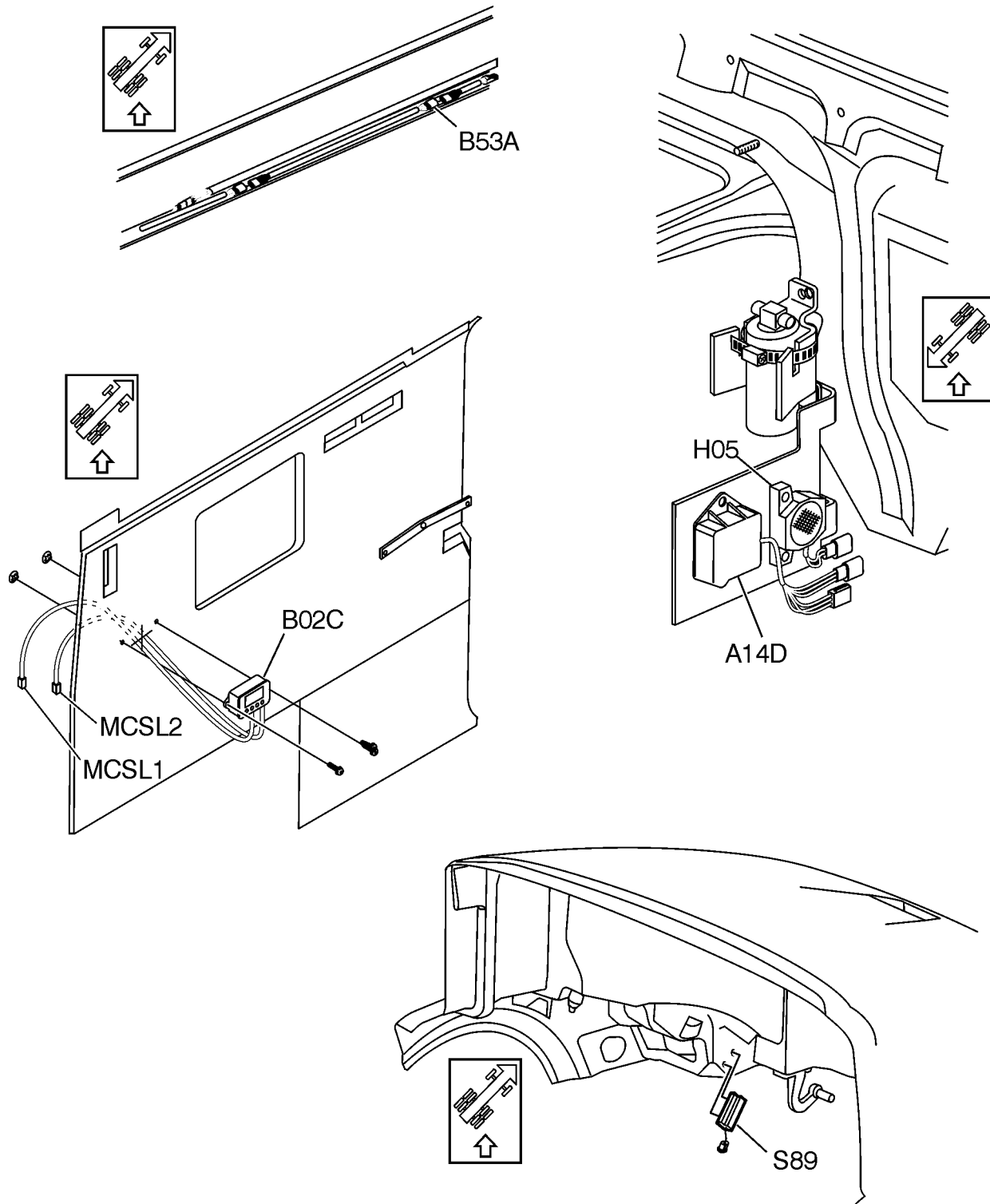
W3006903

VORAD Antennas



W3006907

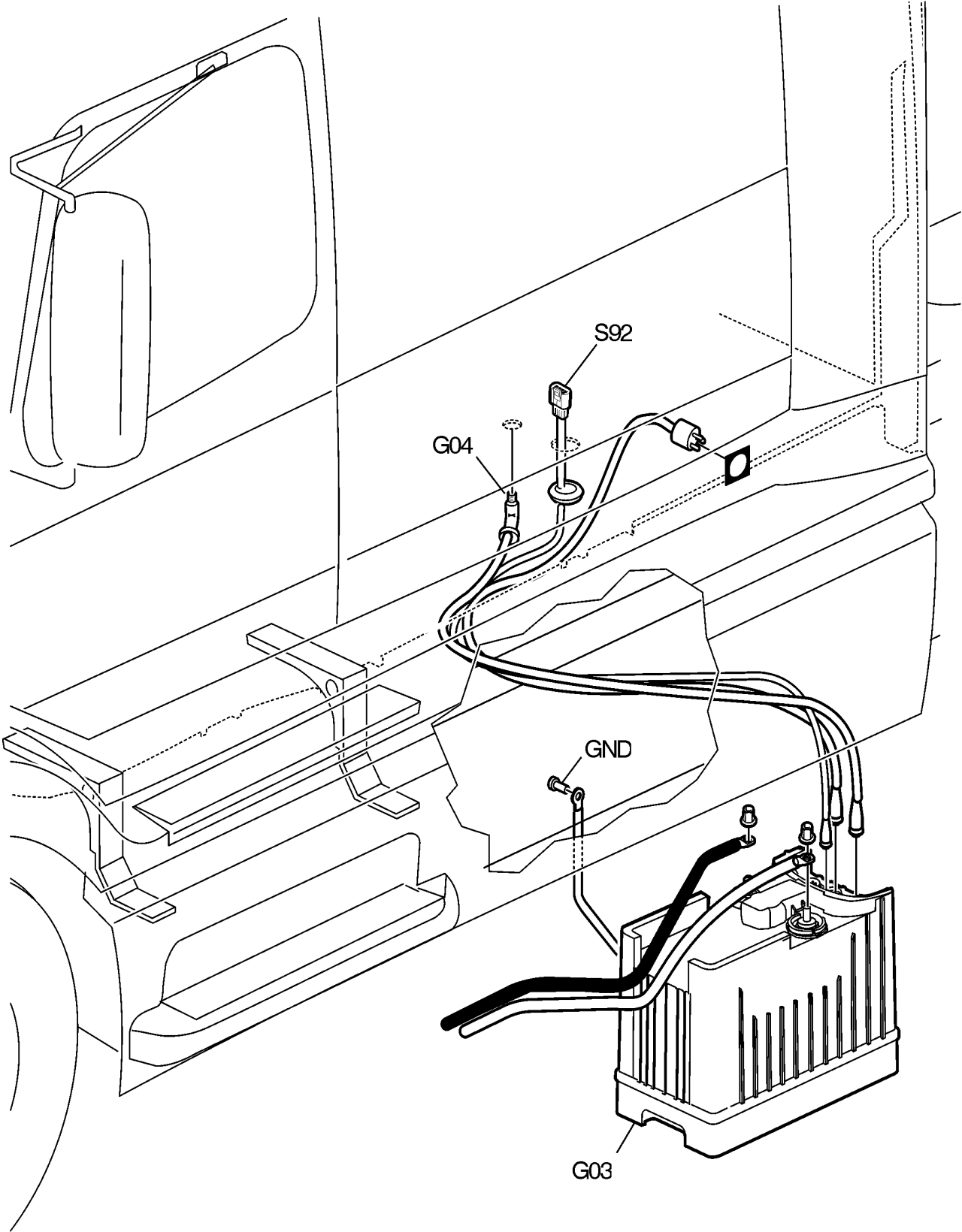
## ICON



W3006733



**Inverter**



W2004614





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