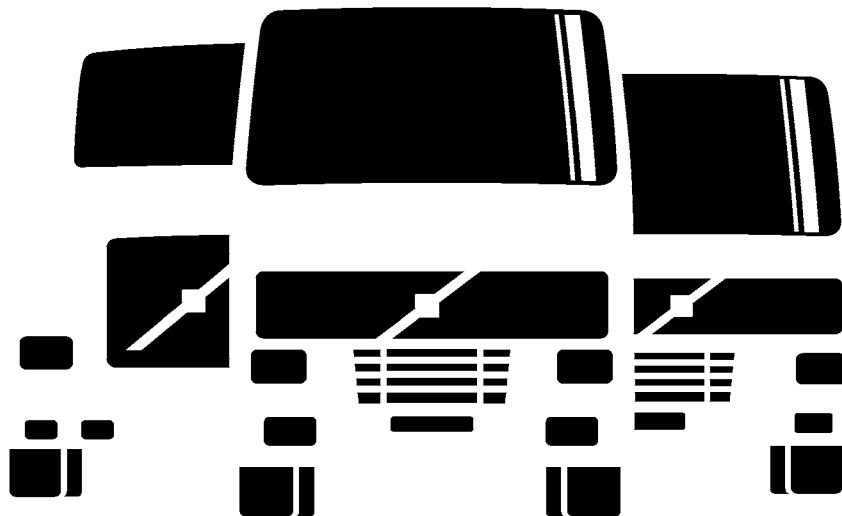


# Service Manual Trucks

Group **880–500**

Cab, Interior Equipment

VN, VHD



# Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to August 2000.

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 S.R.T. (Standard Repair Time).

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

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: PV776-TSP144873**

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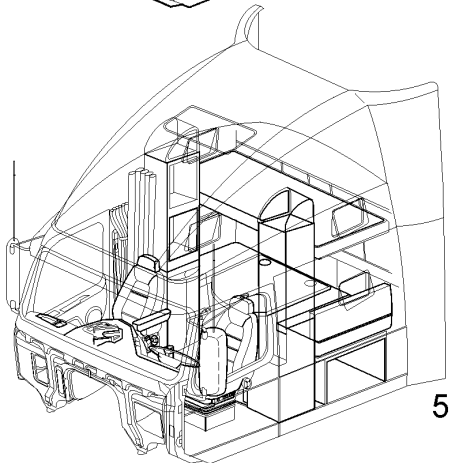
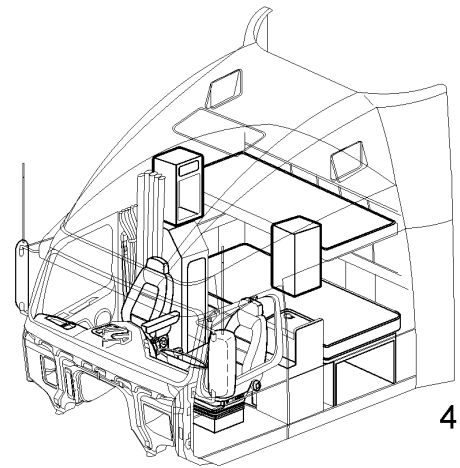
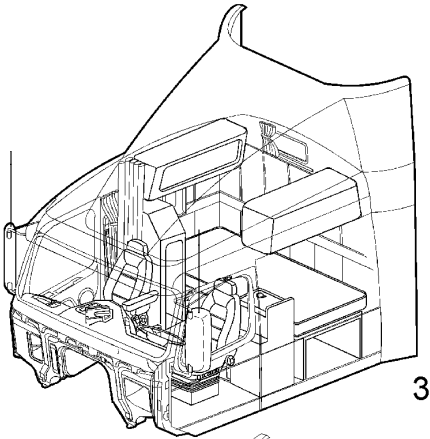
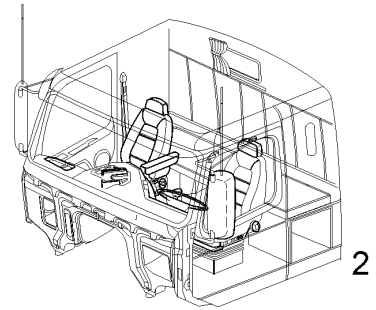
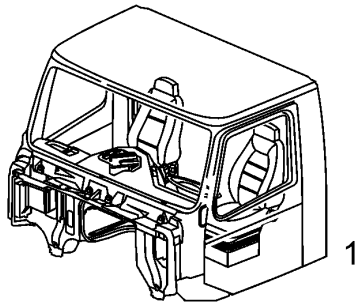
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# General

## Interior Equipment



1. VN/VHD Daycab 2. VN 420 3. VN 610 4. VN 660 5. VN 770

W8002810

This manual contains information about major parts of the interior, which are contained in the following chapters: "Specifications" page 5, "Design and Function" page 7 and "Service Procedures" page 13. It covers the VHD and all the VN cabs.

For other manuals for the VN and VHD series cabs, see "Cab, General" and "Climate Control" in group 8 and "Electrical, General" in group 3.



# Specifications

## Cabinet Load Capacities

Storage cabinets, overhead in front of driver, each half width of cab .....	8 kg (18 lb)
Storage cabinets, overhead in sleeper, short version .....	15 kg (33 lb)
Storage cabinets, overhead in sleeper, long version .....	18 kg (40 lb)
Floor drawer cabinet, upper drawer .....	4.3 kg (9.5 lb)
Floor drawer cabinet, lower drawers .....	6.5 kg (14.5 lb)

## Tightening Torques

M8 Torx bolts .....	24 ± 4 Nm (18 ± 3 ft-lb)
M6 Torx bolts .....	10 ± 1.5 Nm (7.5 ± 1 ft-lb)






# Design and Function

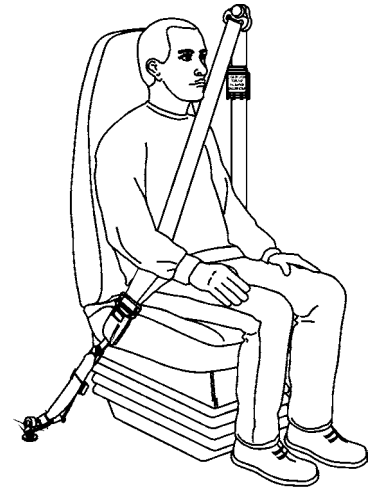
## Interior Equipment

### Safety Belts

Three-point safety belts are standard equipment in all cabs. A Supplemental Restraint System (SRS or air bag) is standard equipment from 1/1/99. Safety belts should be worn at all times, even if the vehicle is equipped with SRS.

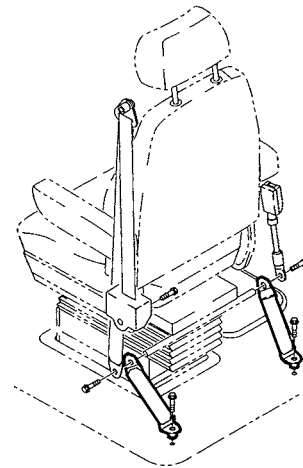

DANGER

It is critical that any time a vehicle has been involved in an accident, the safety belt system in use at the time of the accident must be replaced, including the sleeper bunk restraints if they were in use at the time of accident. Failure to replace the safety belt system may result in serious injury or death. See Operator's Manual for correct seat belt usage.



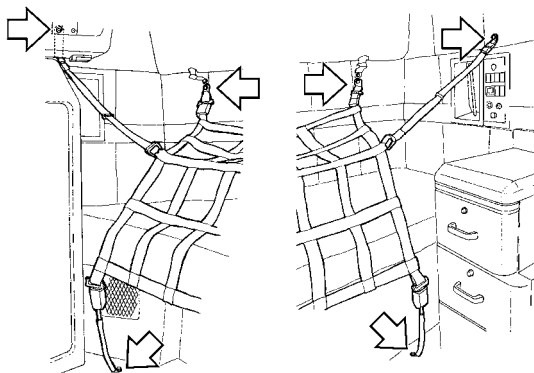
The safety belts have anchoring points that attach to the floor with tethers, on all seats except the Volvo seat and the fixed passenger seat.

W8001402



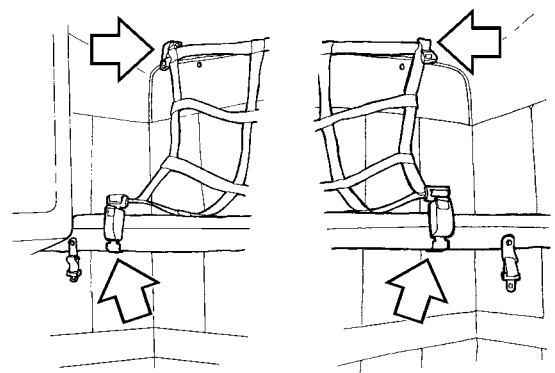
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In sleeper cabs there are restraint harnesses for the bunks.



W8001348

Lower bunk restraint harness

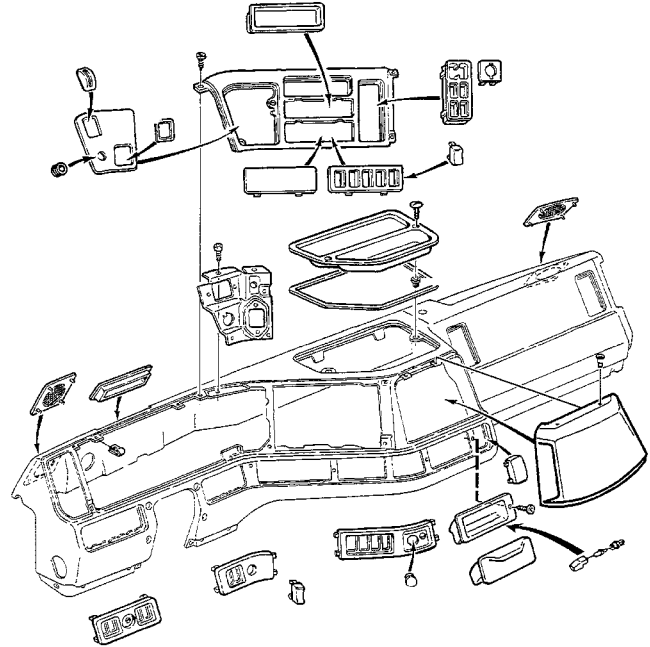


W8001349

Upper bunk restraint harness

## Dash Panel

The dash consists of a frame with a cover of foam plastic and a vinyl surface. Various panels are used in the openings to accommodate different options and model variants.

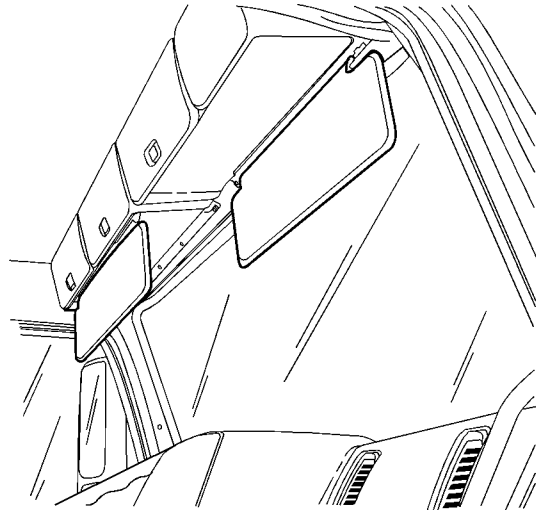


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## Sun Visors

The sun visors are either hung from the inside roof or from the underside of the front overhead storage cabinets. The visors are hinged out-of-line with each other so there is maximum sun protection for the driver.

Each sun visor is unique for the location and equipment. The angle for the rest catch in the visor varies when mounted on driver or passenger side and if mounted to an overhead storage or the against the lining.

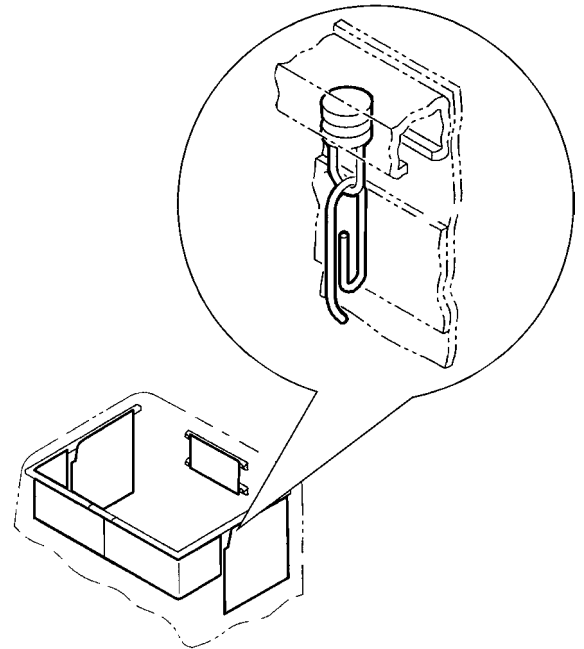


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## Curtains

Curtains are supplied as standard in some cabs and are also available as an option. There are sleeper partition curtains and front and side window curtains.

The curtains run in a track fastened to the inner roof. Rollers run in the track and are fastened to the curtains with a simple hook and loop fastener.

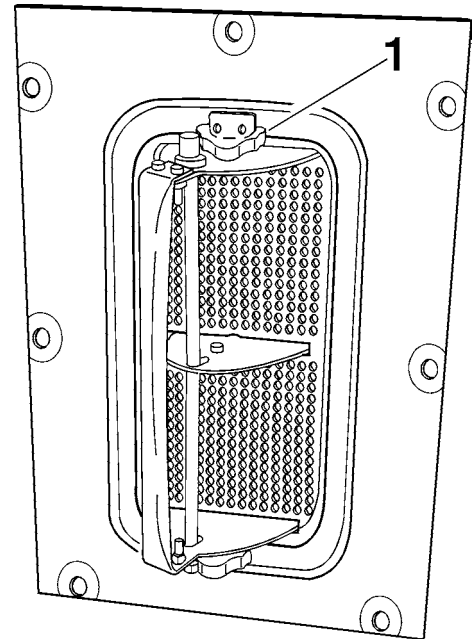


W8001392

## Sleeper Cab Ventilation

In the sleeper cabs, there are manually operated vents, one on each side wall. The vent can be opened to two positions depending on how much air flow is wanted. It can also be opened with the opening forward or rearward, giving the option of evacuating air or letting fresh air in to the sleeper cabin.

The vent should not be used during rain or washing or other circumstances where water may enter the cab while open. To prevent leaks, make sure the handle rollers are on the top center part of the cams (1).



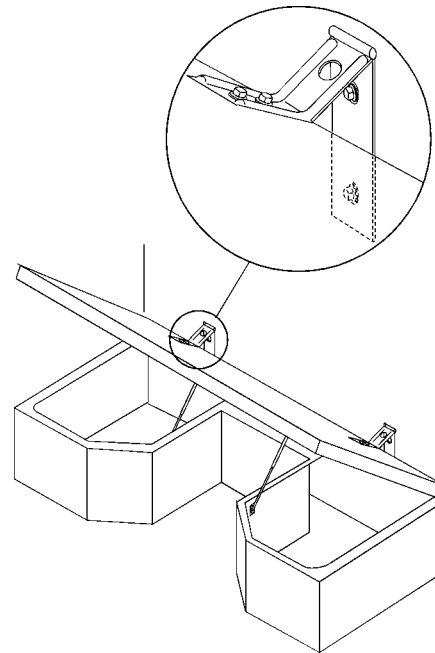
W8001425

## Sleeper Bunks

There is only one bunk available for the VN420. For the VN610, VN660 and the VN770, an upper bunk is available and a lower bunk is standard.

The bunks for the VN420, VN610 and VN660 cover the luggage compartment. They are hinged for access to luggage from inside of the cab.

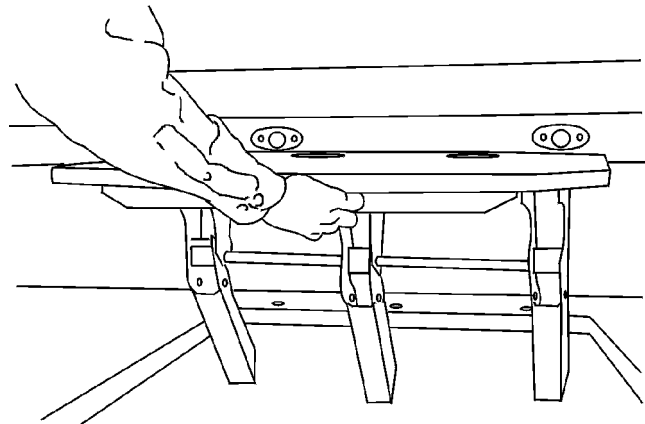
The platform is counterweighted with gas springs to ease the lifting operation.



W8001393

### VN770 only

To form the lower bunk, lower the table by pulling the handle underneath the tabletop to release the latches. Lower the table to its resting position. Take the cushions from the side and press them down in the middle to form a mattress.

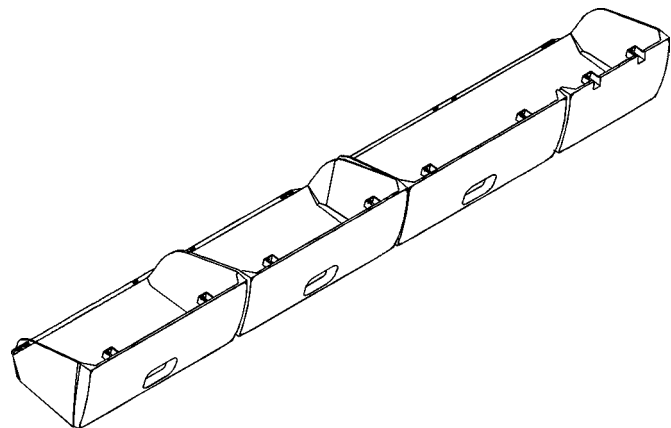


W8002585

## Overhead Storage Cabinets

Overhead cabinets in front of the driver can be had in different variations. The cab has an overhead storage as standard on the driver's side. A left side storage can be had as an option.

The storage cabinets have a maximum storage weight limit of approximately 8 kg (18 lb) per section. This means that the limit covers each of the two compartment sections, either right or left side.

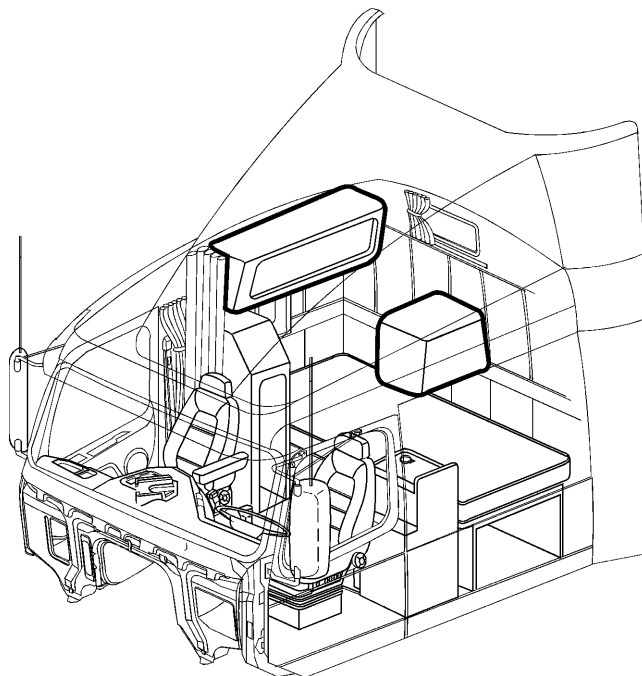


W8001426

## Sleeper Storage Cabinets

There are overhead storage cabinets in the sleeper area. These can be either long or short, depending if there is an upper bunk.

The long storage cabinet has a maximum storage weight limit of approximately 18 kg (40 lb). The short cabinet has a maximum storage weight limit of approximately 15 kg (33 lb).



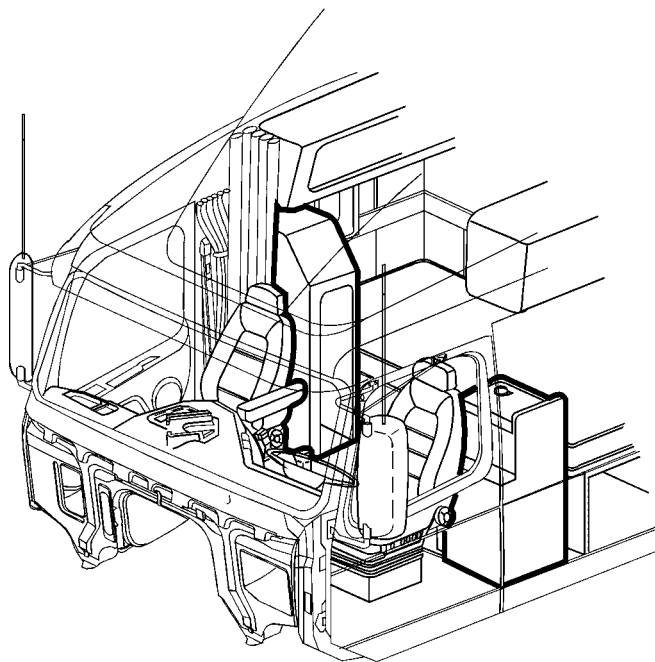
W8001394

## Floor Cabinets

The drawer cabinet has one small drawer with a lock and two larger drawers below. There is also a pull-out writing tablet in the top part.

The drawer weight limitations are 4.3 kg (9.5 lb) for the top drawer and 6.5 kg (14.5 lb) for the two lower drawers.

There is also a clothes cabinet for hanging clothes upright.



W8001395

## Optional Equipment

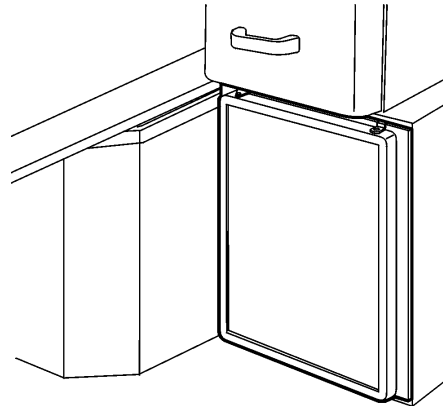
### Refrigerator

A refrigerator can be installed in the VN660 and VN770.

Refer to:

**Service Bulletin** 889-01  
*Refrigerator, Troubleshooting*

**IMPACT** Function Group 889  
Information Type: Bulletin  
Refrigerator, Troubleshooting



W8002413

### Sink

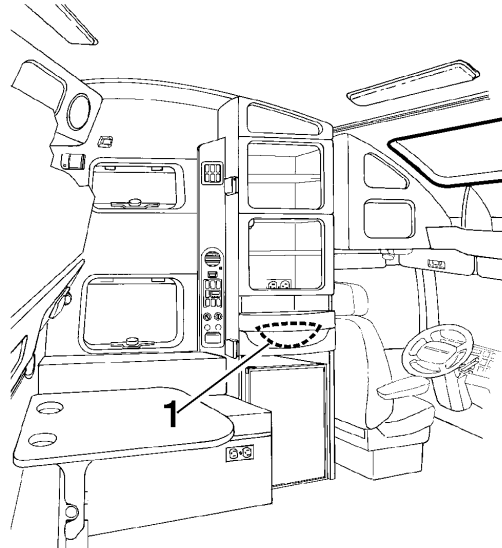
A built-in sink (1) is available for the VN770. It is located on the left side, in the cabinet behind the driver.

The sink is mounted in the drawer space. To pull out, grasp the drawer lip and release the latch.

Refer to:

**Service Manual** 88  
*Sink, VN*

**IMPACT** Function Group 885  
Information Type: General  
Sink



W8002581

### TV

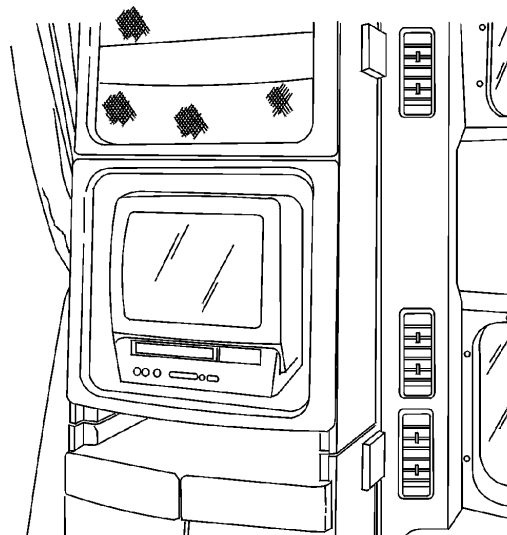
The VN610, 660 and 770 are already equipped with a pre-installed antenna. The TV should be installed in the passenger side cabinet where there is a standard 12 V connection or an optional power socket connection.

To prevent the TV from moving when the vehicle is driven, the strap in the TV storage area should be clamped tight around the set.

More information and troubleshooting of the TV-Antenna is available, refer to:

**Service Bulletin** 396-01  
*TV Antenna Replacement*

**IMPACT** Function Group 396  
Information Type: Bulletin  
TV Antenna Replacement



W8002586

# Service Procedures

## Safety Belts, Inspection

**⚠ DANGER**

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

**⚠ DANGER**

Failure to properly inspect and maintain safety belts can cause serious injury or loss of life.

**⚠ DANGER**

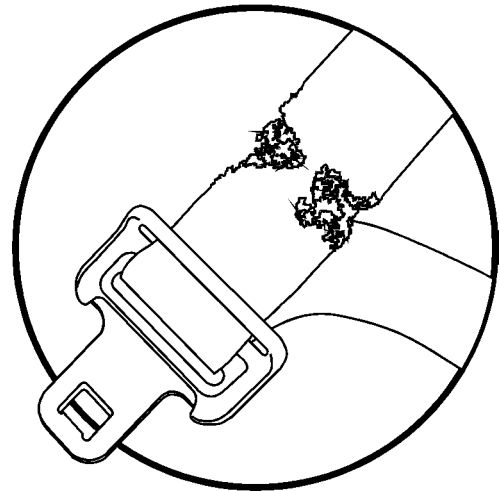
It is critical that any time a vehicle has been involved in an accident, the safety belt system in use at the time of the accident must be replaced, including the sleeper bunk restraints if they were in use at the time of accident. Failure to replace the safety belt system may result in serious injury or death. See Operator's Manual for correct seat belt usage.

**⚠ WARNING**

The safety belts in a commercial heavy duty vehicle application are considered to have a finite life and must be replaced as needed throughout the life of the vehicle. Belts must be inspected for needed maintenance every four months at the scheduled preventive maintenance inspection, or more often if exposed to severe environmental or vocational conditions.

**Note:** If replacement of any part of the seat is indicated through maintenance guidelines below, the entire belt assembly must be replaced, both retractor and buckle side.

1



W8001406

Check the web wear at the latch area. The webbing must be closely examined to determine if there are any cuts, fraying or extreme wear in the webbing. Cuts, frays or excessive wear indicate the need for replacement of the safety belt system.

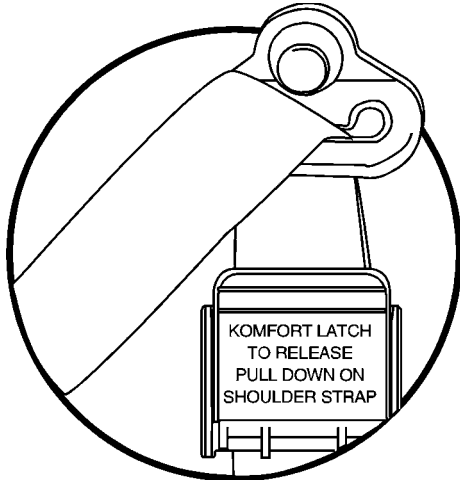
2



W8001405

The D-loop web guide is an area where almost constant movement of the safety belt webbing occurs because of the relative movement between the seat and the cab. Because of this constant movement this is an area where wear will often occur. The webbing must be closely examined to determine if there are any cuts, frays or extreme wear in the webbing. Cuts, frays or excessive wear indicate the need for replacement of the safety belt system.

3



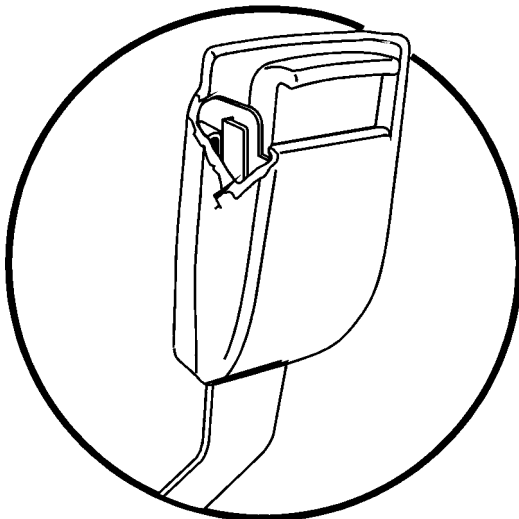
W8001403

Check that the D-loop web guide is rotating properly. If the guide is not rotating properly, the webbing will pull at the wrong angle through the guide, accelerating wear.

4

Check the Komfort Latch for cracks or possible damage and that it works properly.

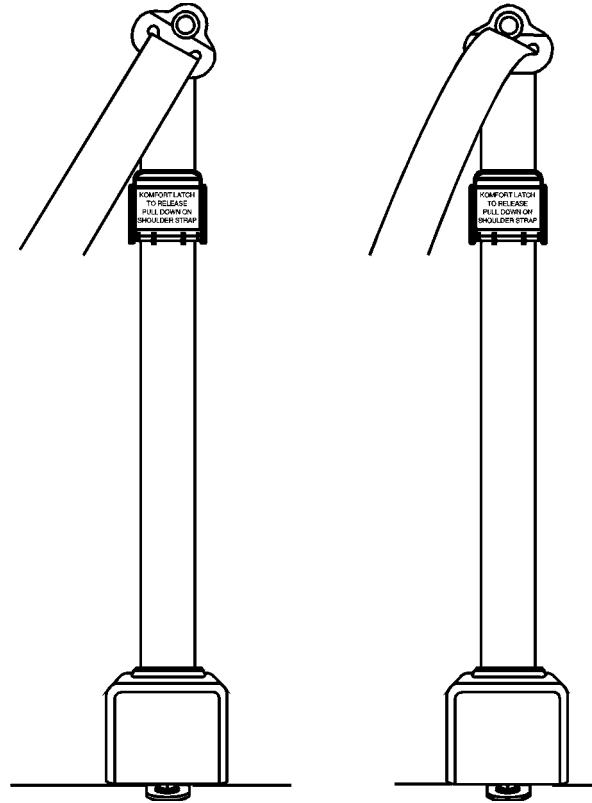
5



W8001404

Check the buckle by inserting the latch and verify proper operation. Determine if the latch plate is worn or deformed. Check the buckle and latch casing for cracks or breakage.

6

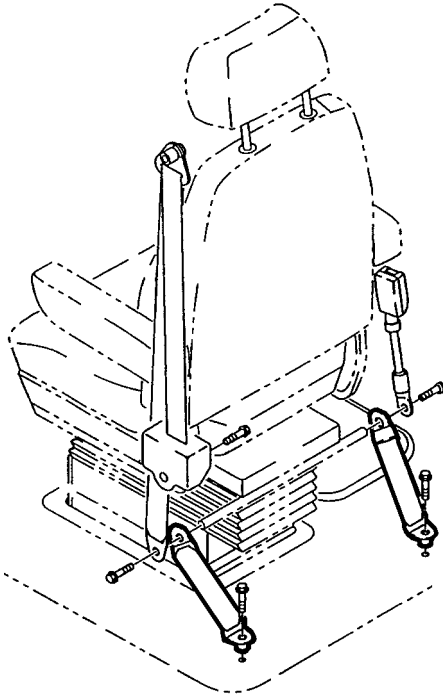


W8001401

The retractor web storage device is mounted on the B-pillar of the vehicle. The retractor is the heart of the safety belt system and can be damaged if abused, even unintentionally. Check the retractor web storage device operation to ensure that it is not locked and that it spools out and retracts the webbing properly.



7



W8001387

If tethers are being used to anchor the safety belts to the floor, make sure they are properly attached to the seat. Tethers must also be inspected for web wear and proper tightness of mounting hardware.

8

All hardware for safety belt mounting points should be evaluated for corrosion. All attachment points of the system should be checked for tightness of mounting hardware.

9

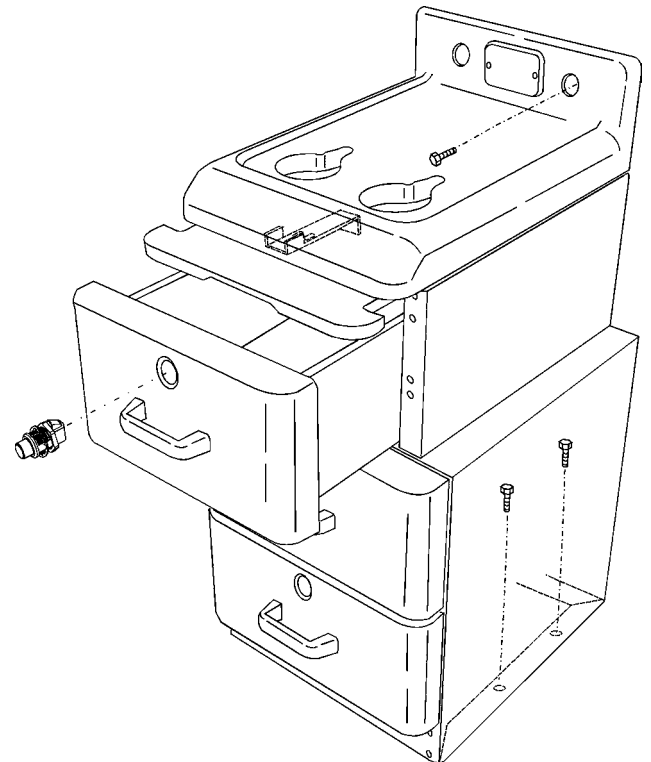
Check web in areas exposed to ultraviolet rays from the sun or extreme dust or dirt. If the original color of the web in these areas is extremely faded, the physical strength of this web may have deteriorated. If this condition exists, replace the system.

## Cabinet Drawer, Adjustment

**DANGER**

Before working on a vehicle, set the parking brakes, place the transmission in neutral and chock the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

1



W8001396

The drawers are held in place by the combined stop bracket and lock latch rail. If the drawer is rattling, loosen the two screws holding the rail in place. Adjust the rail until the drawer can be closed with a slight pressure.





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