

BRAUN



CONSUMER

In-Floor Ramp

ENTERVAN

**Wheelchair-Accessible
Lowered Floor Conversion
featuring 2002-2004**

GM Minivans

**THE BRAUN
CORPORATION®**

"Providing Access to the World"®

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30396

February 2004

**In-Floor Ramp Entervan®
featuring GM Minivans**

Operator's Manual

! WARNING



**Read manual
before operating.
Failure to do
so may result in
serious bodily
injury and/or
property damage.
Keep manual in
Entervan.**

**In-Floor Ramp Entervan®
featuring GM Minivans**

Congratulations

We at The Braun Corporation wish to express our fullest appreciation on your new purchase. With you in mind, our skilled craftsmen have designed and assembled the finest lowered floor vehicle available.

This manual includes safety precautions, operating instructions, manual operating instructions, and instructions for maintenance and lubrication procedures.

Your Entervan® is built for dependability, and will bring you years of pleasure and independence, as long as the maintenance is performed regularly and the Entervan® is operated by an instructed person.

Sincerely,

THE BRAUN CORPORATION

A handwritten signature in black ink that reads "Ralph W. Braun". The signature is written in a cursive style with a large, sweeping "B" and "R".

Ralph W. Braun
Chief Executive Officer

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WARRANTY AND REGISTRATION INSTRUCTIONS

Examine your Entervan® for any damage. Should any damage have occurred during delivery, notify the carrier at once with any claims.

The warranty/registration card shown here is supplied with each Entervan®. Review the delivery checklist and fill out the warranty/registration information with your sales representative and mail it to The Braun Corporation.

A detailed Warranty section is provided within this manual. The **warranty card must be processed to activate the warranty.**

Record the last eight digits of the vehicle identification number (VIN) in the space provided for future reference. **This information must be provided when filing a warranty claim or ordering parts.**



Note: Attached to glove box door.

A photograph of the 'DELIVERY CHECKLIST' and 'WARRANTY REGISTRATION' form. The top section is titled 'DELIVERY CHECKLIST' and includes fields for 'Customer Name', 'VIN', 'Delivery Date', and 'Dealer Sales Consultant'. Below this is a checklist of items to be inspected, categorized into 'Pre-Delivery', 'Delivery', 'Exterior', 'Interior', and 'Additional'. The bottom section is titled 'WARRANTY REGISTRATION' and includes fields for 'Dealer Information' (Dealer Purchased From, City, State, Date of Purchase) and 'Owner Information' (Name, Address, City, State, Zip, Telephone, Email). There is also a small photo of a person sitting on a green utility vehicle and a signature line.

Vehicle Identification Number (VIN) _____

The Braun Entervan lowered floor conversion is designed to provide years of pleasure and mobility independence. Familiarity with proper operation and maintenance procedures will help ensure safe, troublefree operation.

The Braun Corporation encourages wheelchair passengers and their attendant(s) to review the material contained in this manual with your Entervan sales representative, **before attempting operation**. Any questions or concerns can be answered by your sales representative at that time.

This manual addresses Entervan standard features as well as options. Refer to the instructions applicable for your package, and disregard the information that does not apply.

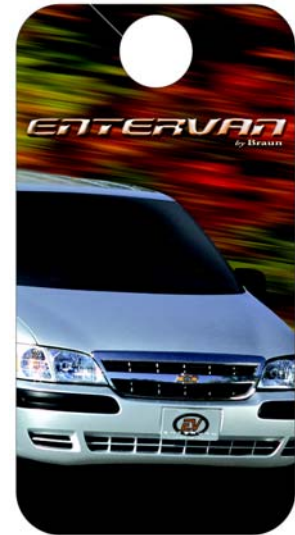
The Entervan Operation Quick Reference Guide hanging on the mirror provides a condensed explanation of Entervan operation (shown at right). Read the guide and then insert it in this manual for future reference. **Note:** An Operation Quick Reference Guide (overview) section is provided on pages 4 and 5 of this manual also.

Contact The Braun Corporation at 1-800-THE LIFT if any of this information is not understood.

Store this manual in the vehicle along with your GM owner's manual.

If you experience an operation problem or there is any sign of wear, damage, or other abnormal condition, contact your sales representative or call The Braun

Corporation at 1-800-THE LIFT. One of our national Product Support representatives will direct you to a Braun authorized service center.



Operation Quick Reference Guide

Entervan Operation Overview

This overview provides a simplified explanation of Entervan operation. Read the entire owner's (operator's) manual for complete details. Contact The Braun Corporation at 1-800-THE LIFT if any of this information is not understood.

Power Operation

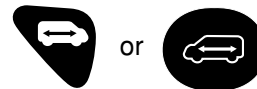
Entervan power functions are managed by the One-Touch electronic control system. The control system can be activated using the GM remote keyless entry transmitter, any one of the interior-mounted control switches or the optional magnetic entry. Details on pages 10-12.

GM
Remote
Keyless
Entry
Transmitter



Press
and
release
this
switch
(button).

Control switches display the slide door graphic.



One-Touch Control Activation

Entervan power door, ramp and kneel functions are activated by **pressing and releasing** any control switch.

Open Functions: When activating the Open functions, the power door opens, ramp deploys (extends) and the kneel system lowers the rear of the vehicle.

Close Functions: When activating the Close functions, the ramp stows (retracts), the kneel system raises the rear of the vehicle and the power door closes.

Manual Operation

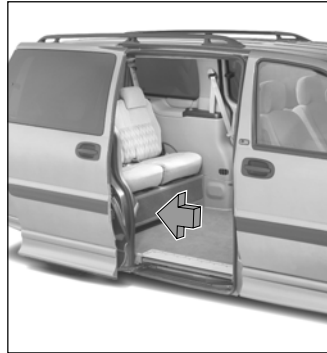
In event of power or equipment failure, the door, ramp and kneel system can be manually operated. Read this manual for further details.

**Operating Your New Entervan
Couldn't Be Simpler . . .**



1 Just press any one of the buttons like the one pictured above . . .

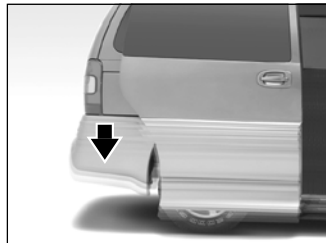
2 ...and the sliding door opens,



3 ...the ramp deploys (extends),



4 ... and the rear suspension lowers.



Allowing easy entrance!

FEATURES

One-Touch Electronic Control System: The Entervan One-Touch electronic control system provides simple one-touch activation of all Entervan power features. For your convenience, the control system can be activated using the GM remote keyless entry transmitter, any one of the interior-mounted control switches or the optional magnetic entry.

Power Slide Door: The One-Touch electronic control system activates the Chrysler passenger side power slide door for ramp access. The slide door and lowered floor configuration provides 54-1/2" clear vertical passageway. **Note:** The driver-side sliding door is lowered to provide clear passage also.

Ramp: A fully automatic power in-floor 30" wide ramp provides an unobstructed doorway, maximum visibility and increased interior space (with manual override capability).

Electromechanical Power Kneeling Rear Suspension: "Kneeling" is the lowering motion of the electromechanical rear suspension. The kneel feature reduces the slope of the ramp when deployed.

Lowered Floor from Rear Axle to Firewall: This feature provides additional headroom (56-1/2" floor-to-ceiling at center of van). The lowered floor reduces the slope of the ramp when deployed. Carpeting is featured throughout the lowered floor area.

Ground Effects: Exterior color-matched ground effect panels conceal the lowered floor and lowered sliding doors.

Floor Track for Wheelchair and Occupant Securement in Midpoint Lowered Floor Area: Floor track provided in the midpoint lowered floor area (Position **C**) can be utilized for restraint of wheelchair passenger(s). Wheelchair capacity at midpoint may have limitations based on the dimensions of specific wheelchairs.

Forward-Facing Wheelchair and Occupant Belt/Track System: One Forward-Facing Wheelchair and Occupant Belt Kit is supplied for the restraint of one wheelchair and occupant. The belt kit is used in conjunction with

the floor track. **Note:** Additional belt kits can be purchased (option).

Quick-Release Front Passenger Seat with Floor Track for Wheelchair and Occupant

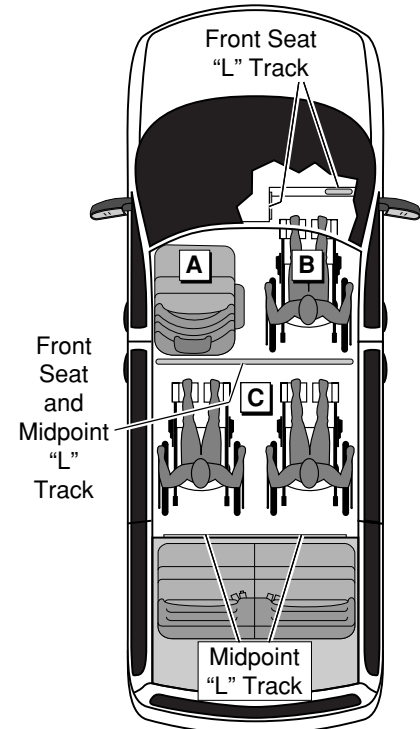
Securement: The passenger seat (Position **B**) is equipped with GM's quick-release seat attachments (making seat removal and installation procedures simple). The seat can be removed and the seat location can be utilized by a wheelchair occupant (floor track provided).

Driver Seat: For the wheelchair occupant who chooses to drive the Entervan, this seat (Position **A**) can be removed and adaptive driving systems custom tailored for the individual can be purchased from and installed by your

local mobility dealer. The driver side seat is equipped with GM's quick-release seat attachments also. 56-1/2" floor-to-ceiling headroom is provided at both front seating positions.

Auxiliary Power Supply for Dealer-Installed Power Seat or Electric Tie-Downs: This power source is available to accommodate adaptive driving systems custom tailored for the individual (purchased from and installed by your local mobility sales representative). See pages 44-47.

Interior Spare Tire Mount: The spare tire is mounted behind the rear bench seat. The jack is located in the GM specified storage compartment at rear of the vehicle (passenger's side).



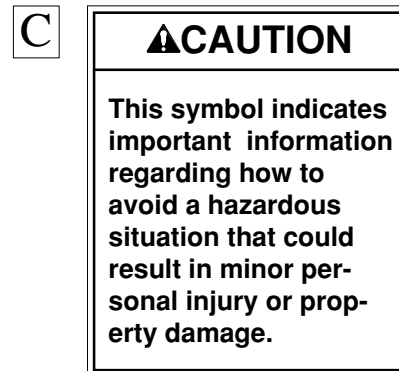
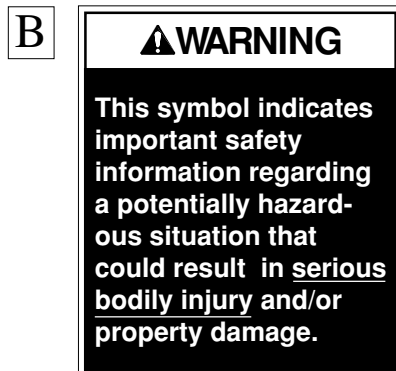
Available Wheelchair Positions

SAFETY PRECAUTIONS

Safety Symbols

SAFETY FIRST! Know That....

A All information contained in this manual and supplements (if included), is provided for your safety. Familiarity with proper operation instructions as well as proper maintenance procedures are necessary to ensure safe, troublefree operation. Safety precautions are provided to identify potentially hazardous situations and provide instruction on how to avoid them.



D **Note:** Additional information provided to help clarify or detail a specific subject.

These symbols will appear throughout this manual and may appear on labels posted on your Entervan.
Recognize the seriousness of this information.

Whenever parking your Entervan and before utilizing Entervan features, always engage the vehicle transmission in Park “P” and engage the vehicle parking brake. The vehicle transmission **must** be engaged in Park “P,” before operating the Entervan automatic features. Entervan power functions cannot be activated if the vehicle transmission is not in Park. **Note:** Pressing the overhead console power override switch disables Entervan functions also (if equipped).

Terminology

The term “Deploy” indicates the extending motion of the ramp to the deployed position. “Stow” is the retracting motion of the ramp to the stowed (in-floor) position.

The terms “Open” and “Close” refer to sequences of power functions that will occur when activated by the One-Touch electronic control system. When activating the Open functions, the power door opens, the kneel system lowers the rear of the vehicle and the ramp deploys. When activating Close functions, the ramp stows, the kneel system raises the rear of the vehicle and the power door closes.

One-Touch Control System

Entervan power functions are managed by the One-Touch electronic control system. The control system can be activated using the GM remote keyless entry transmitter or any one of the controls addressed on pages 10-12.

Do not attempt to interface aftermarket control systems.

Braun Corporation Aftermarket Control Systems Policy:

The Braun Corporation manufactures dedicated control systems for its products. These control systems have been designed and tested for use in conjunction with specific Braun products. Braun control systems are the **only** control systems authorized for use with Braun products.

Do not attempt to interface aftermarket control systems without authorization from The Braun Corporation. **To do so may result in serious bodily injury and/or property damage.**

OPERATION

Control Switches

For your convenience, the Entervan One-Touch electronic control system can be activated using the GM remote keyless entry transmitter, any one of the interior-mounted control switches or the optional magnetic entry (control photos and details are provided).

One-Touch Control Activation

Entervan power door, ramp and kneel functions are activated by **pressing and releasing** any control switch. Press any switch twice for door operation **only**.

Note: The overhead console power override switch must be off to activate Entervan power functions (see page 11).

GM Remote Keyless Entry Transmitter

Using the GM remote keyless entry transmitter eliminates the need of an additional remote control.



Press and release this switch (button).

Remote Switch:
Press switch displaying this slide door graphic.



Dash-mount Console Switches

For front seat passengers, switches are located on both sides of the center console.



Press and release either switch.



Overhead Console Switches

The switches in the overhead console switchbank vary based on vehicle options. If equipped with a passenger side power door only, the switches will be as shown here (one control switch and one override switch). If the

override switch is pressed, power door and ramp functions will be disabled.

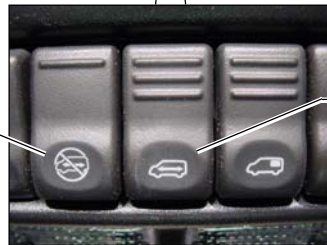


If equipped with dual power sliding doors, there will be two combination switches (one for each door). Door power and power override are controlled with the same switch (both graphics appear on switches).

Power Override:



Pressing this switch disables door, ramp and kneel functions.



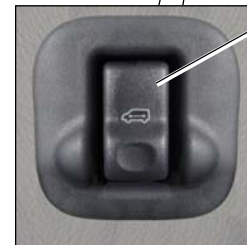
Door Power:



Press and release for power door, ramp and kneel functions.

“B” Pillar Switch

A switch is located on the wall panel ahead of the passenger side slide door (“B” pillar).



Press and release this switch.

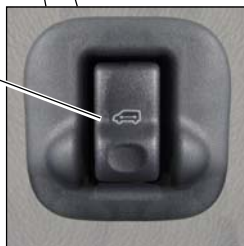




“C” Pillar Switch

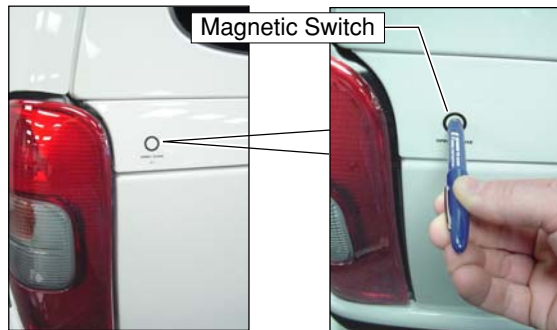
A switch is located on the wall panel rear of the passenger side slide door (“C” pillar).

Press and release this switch.



Magnetic Entry

The magnetic entry is offered as an **option**. A magnetic switch is built into the passenger-side rear panel (near taillight). The switch is labeled OPEN/CLOSE.



Passenger-side Rear Panel

Align magnetic tip with switch.

A pen-style magnet is supplied for switch activation. Simply remove the pen cap and align the magnet tip with the switch target (identified with decal 28013). Entervan power door, ramp and kneel functions will be activated.

Delay Feature: When activating the Open functions using the magnetic entry, there is a **one second delay before** the Entervan Open sequence of functions is activated. The One-Touch electronic control system unlocks all vehicle doors before activating Entervan power functions.

Ramp Access Sliding Door

The passenger-side power sliding door may be opened using the Entervan One-Touch Control System or it may be opened manually. Press and release the GM remote keyless entry transmitter, any one of the interior-mounted control switches or the optional magnetic entry to activate the door. When a control switch is pressed, the door will open and the Open sequence of functions will continue.

If a control switch is pressed and released a second time (while the door is opening), the door will open fully and stop (ramp will not deploy). Press the switch again and the door will close.

Once the Open sequence of

functions is complete (door is fully open and ramp is deployed), press and release a control switch to close the door. The door will close after the ramp stows and the vehicle raises, completing the Close sequence of functions.

If a control switch is pressed while the door is closing, the door will continue to close fully. Press a control switch again to start Open functions.

Note: The overhead console power override switch must be off to activate the power door. The door can be opened and closed manually if the override switch is pressed on. If the override switch is off and you attempt to open or close the door manually, the power feature will automatically complete the function.

Note: If the power door is obstructed while opening or closing, the door will reverse direction, provided it meets sufficient resistance.

Keep clear of the area in which the power door operates. Ensure door travel path is clear. Personal injury or property damage may occur during power door operation. Be sure the door is fully closed and latched before driving.

WARNING

Keep clear of area in which power door operates. Failure to do so may result in bodily injury and/or property damage.

OPERATION

Kneel System

Kneeling is the lowering motion of the Entervan electromechanical rear suspension. The kneel system lowers the rear of the vehicle. Lowering the rear of the vehicle reduces the slope of the ramp.

The kneel system is automatically activated by the One-Touch electronic control system. When a control switch is pressed to start the Open functions, the rear of the vehicle lowers after the ramp is fully deployed.

When the Close functions are activated, the vehicle starts to raise at the same time the ramp starts to stow (retract).

Note: Do not leave your Entervan in the kneeled (lowered) position for extended periods of time. Doing so may result in battery drain.

Mechanical Kneeling Override:

In the event the Entervan is in the kneeled position and you experience power or equipment failure, the Kneel Actuator Manual Release (Override) feature allows the rear of the vehicle to be raised to the normal position.

Use the Kneel Manual Release **only** if the vehicle will not raise electrically. **Do not** drive the Entervan with the rear of the vehicle in the lowered position. Attempting to do so will result in an extremely rough and unstable ride. In the event of a kneel

system failure, have the kneel system repaired immediately.

A release handle is located under the rear bench seat as shown below. Operate the kneel release as indicated on the opposite page.

Kneel System Manual Release Handle





Power Ramp

Power Ramp Operation: The power ramp is activated by the One-Touch electronic control system. When a control switch is pressed to start the Open functions, the ramp deploys (extends) after the door is fully open. When the Close functions are activated, the ramp stows (retracts) immediately.

If a control switch is pressed and released while the ramp is deploying, the ramp motor will stop running. Press a switch again and the ramp will stow and the door will close.

Once the Open sequence of functions is complete (door is fully open and ramp is deployed), press and release a

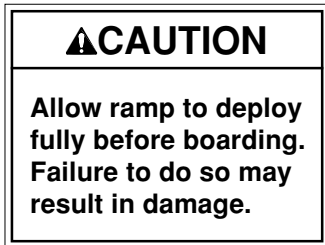
control switch to stow the ramp. If a control switch is pressed while the ramp is stowing, the ramp motor will stop running. Press a control switch again and the ramp will stow and the door will close.

Obstruction Sensing: If the power ramp is obstructed while deploying or stowing, the ramp motor will stop running, provided it meets sufficient resistance. If the ramp is obstructed during the deploy cycle, press the switch again and the ramp will stow and the door will close. If obstructed during the stow cycle, press the switch again and the ramp will stow (weight sensing feature). The ramp system will shut off during the stow function if sufficient weight is detected on the platform.

OPERATION

Note: When deploying the ramp, the ramp motor runs throughout the entire ramp deployment function.

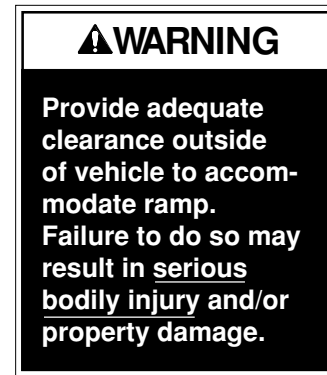
Allow the power ramp to extend and lower fully before boarding the ramp. Forcing the ramp out or down during the deploy function, or boarding onto the ramp before it is fully deployed **may result in damage** to the ramp and/or motor assembly.



Curb Loading: Do not attempt to deploy (extend) the ramp into the face of a curb (raised surface). Due to the low profile of the Entervan and the fact that the ramp extends from a below-floor height, curb loading is restricted.

Power Ramp Safety: Be certain there is adequate clearance outside the Entervan before deploying the power ramp.

Keep clear of area in which the ramp operates. Be certain no person or obstruction is within the path of the ramp when deploying or stowing the ramp. Keep clear of all power ramp



moving parts. Do not attempt to grip or hold the ramp during operation. Be certain the ramp passenger is off the ramp before attempting to stow the ramp.

Manual Operation: If you experience power or equipment failure, the power ramp can be manually deployed and stowed.

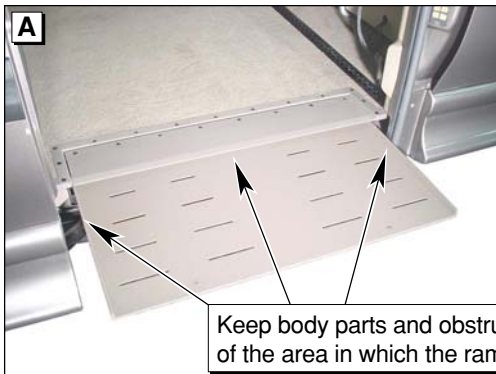
The power ramp can be extended and retracted manually if the overhead console power override switch is pressed on also.

Manual Ramp Operation: The ramp must be manually deployed and stowed by an attendant.

Carefully grip the end of the ramp to manually deploy and

stow the ramp. Grip the center of the ramp or use both hands (grip ramp equal distance from center), to avoid binding the ramp.

Caution: Keep hands clear of the ramp enclosure when manually stowing (retracting) the ramp.



Keep body parts and obstructions clear of the area in which the ramp operates.

Manual Ramp Operation: Use both hands to grip ramp equal distance from center. **Carefully** deploy and stow the ramp.



Ramp Safety

Wheelchair passengers and attendants (when applicable), must use basic common sense and good judgment regarding ramp safety. Each wheelchair passenger has a unique set of physical abilities, combined with the physical characteristics of his or her wheelchair, that dictate the method in which he or she will enter and exit the Entervan. Consequently, the procedures for safe operation outlined in this manual are general in nature. Wheelchair attendants should be instructed on any special needs and/or procedures required for safe transport of wheelchair passengers.

Follow all safety instructions regarding torso restraints, stability, balance, weight distribution and use of attendants as specified in the owner's manual supplied with **your** wheelchair. Determine, establish and practice ramp boarding and exiting procedures under the direction of your health care professional, your wheelchair representative, and your Entervan sales representative to **ensure your ability to do so safely**.

Never board an Entervan ramp if you or your attendant are intoxicated. The wheelchair should be positioned in the center of the ramp at all times. You must be able to clearly view the ramp whenever boarding and exiting the vehicle.

It is the responsibility of the wheelchair operator to enter and exit the Entervan on the ramp in the safest manner.

Wheelchair-Equipped Occupant Seat Belts:

Wheelchair passengers should position and buckle their wheelchair-equipped seat belt (torso restraint), as specified by the manufacturer, **before** loading onto a wheelchair ramp.

Different types of disabilities require

⚠ WARNING

Position and fasten the wheelchair-equipped occupant seat belt before loading onto the wheelchair ramp. Failure to do so may result in serious bodily injury and/or property damage.

different types of wheelchairs and different types of wheelchair-equipped occupant restraint belt systems (torso restraint). It is the responsibility of the wheelchair passenger to have his or her wheelchair equipped with an occupant restraint (seat belt) under the direction of their health care professional.



Stabilizing Wheelchairs: Powered and manual wheelchairs are designed to remain upright and stable during normal operation. All activities which involve movement in a wheelchair have an effect on the combined center of gravity of the occupant and wheelchair. Be aware of the Entervan ramp slope (angle). The slope of the ramp has a direct effect on the center of gravity. Keep in mind your center of gravity and your ability to maintain stability and balance.

Do not operate your wheelchair on the Entervan ramp without assistance if you are unable to maintain

stability and balance. Counterbalance devices (anti-tippers) may be available from your wheelchair representative to enhance stability and balance.

Do not tilt your wheelchair without assistance. Operate the wheelchair at a slow and constant speed when on the ramp. Do not accelerate suddenly when on the ramp. Do not raise the front wheelchair wheels (pull wheelie) when on the Entervan ramp.

The aid of an attendant stabilizing the wheelchair is recommended for **optimum safety**. Wheelchair

OPERATION

passengers who intend to enter and exit their Entervan without the assistance of an attendant must determine the safest and most practical method and orientation of entering and exiting the Entervan based on the physical characteristics of their personal wheelchair and his or her physical capabilities to maintain stability while the wheelchair is in motion on the Entervan ramp.

Wheelchair Attendants: When assisting a wheelchair occupant, remember to use good body mechanics. When the wheelchair is on the ramp, the attendant must grasp the push handles (or other) securely. Detachable wheelchair parts such as arms or legrests must never be used for handholds or lifting supports. Doing so could result in the detachable parts being inadvertently detached from the wheelchair **resulting in possible injury to the wheelchair occupant and/or the attendant.**

Wheelchair Orientation and Securement During Transport: The wheelchair and occupant **must** face the front of the vehicle and **must** be secured using the Forward-Facing Wheelchair and Occupant Belt and Track System when riding in the Entervan. See pages 21-29 for details.

WHEELCHAIR AND OCCUPANT RESTRAINT

One Forward-Facing Wheelchair and Occupant Belt Kit is supplied for the restraint of one wheelchair and occupant (details follow). “L” track is mounted in three locations in the vehicle for belt securement (shown in Figure 1).

Note: Wheelchair passengers shown in Figure 1 depict the available seating positions. Wheelchair capacity at Midpoint (Position C) may have limitations based on the physical dimensions of specific wheelchairs. Additional Forward-Facing Wheelchair and Occupant Belt Kits must be purchased for the restraint of each additional wheelchair passenger.

The Entervan offers the following options for placement and securement of wheelchair passengers.

Driver Seat: This seat (Position A) can be removed and adaptive driving systems custom tailored for the driving wheelchair occupant can be purchased from and installed by your local sales representative.

Front Passenger Seat with Floor Track: The passenger seat (Position B) can be removed and the seat location can be utilized by a wheelchair occupant.

Midpoint Lowered Floor Area with Floor Track: The Midpoint lowered floor area (Position C) can be utilized by wheelchair occupants (capacity limitations apply).

Refer to the following guidelines, illustrations, photos and instructions for proper use of the belt and track restraint system.

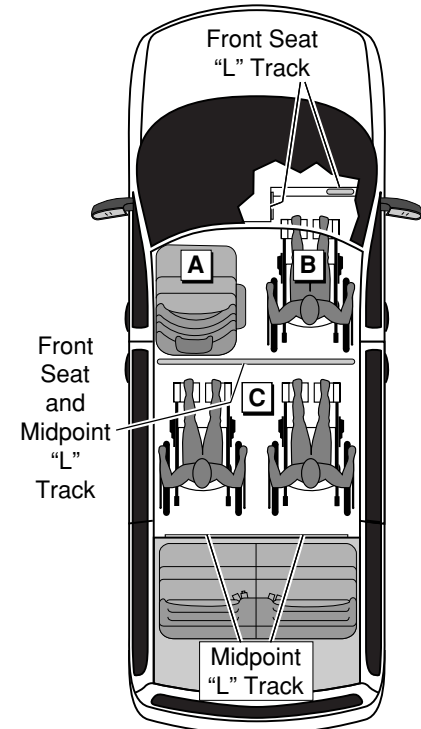


Figure 1

WHEELCHAIR AND OCCUPANT RESTRAINT

⚠️ WARNING

No product developed to date can guarantee successful securement of the wheelchair, even at low speeds, in the event of an accident. The Braun Wheelchair and Occupant Belt/Track System does meet the most widely referenced Federal Motor Vehicle Safety Standards used for contemporary restraint equipment. However, this equipment does not ensure stability of the wheelchair in the event of an accident at any speed.

Wheelchair Securement: Four adjustable over-center buckle belts are provided for securement of the wheelchair (two for the front and two for the rear).

The belts are equipped with one keeper fitting (attachment) which installs in the vehicle-mounted “L” track (details on pages 24 and 25). A hook is positioned on the opposite end of the belts for attachment to a solid frame member of the wheelchair. Do not attach belts to detachable wheelchair components such as armrests or legrests. Front and rear belt tension is required.

Refer to the illustrations, photos and instructions on pages 24-29 for belt operation procedures.

Over-Center Belts
(four supplied)



Lap Belt Extension
(Midpoint)



Lap Belt Extension
(Front Seats)



Note: Two lap belt extensions are supplied (as shown). Midpoint and front seat lap belt extensions are **not interchangeable**.

Wheelchair Passenger Securement: Two lap belt extensions are supplied for securement of the wheelchair occupant. The lap belt extensions are equipped with a keeper fitting (attachment) which installs in the vehicle-mounted “L” track. A female receptacle is positioned on the opposite end of the extension for attachment to a GM factory-installed upper torso lap and shoulder belt.

Note: The midpoint lap belt extension is a standard belt style assembly (adjustable). The front seat extension is equipped with a rigid cable (nonadjustable). See photos on page 22. Lap belt extensions are **not interchangeable**. Attachment procedures are identical. See the illustrations on pages 26 and 27 and photos on page 29.

Operate the GM lap and shoulder belt as instructed in your GM owner’s manual. Follow all safety precautions. Connect the GM lap and shoulder belt to the lap belt extension. Position the upper torso (shoulder) belt across the center of the shoulder. Position the lap belt low across the front of the pelvis (near hip). See the illustrations on pages 26 and 27 and photos on page 29.

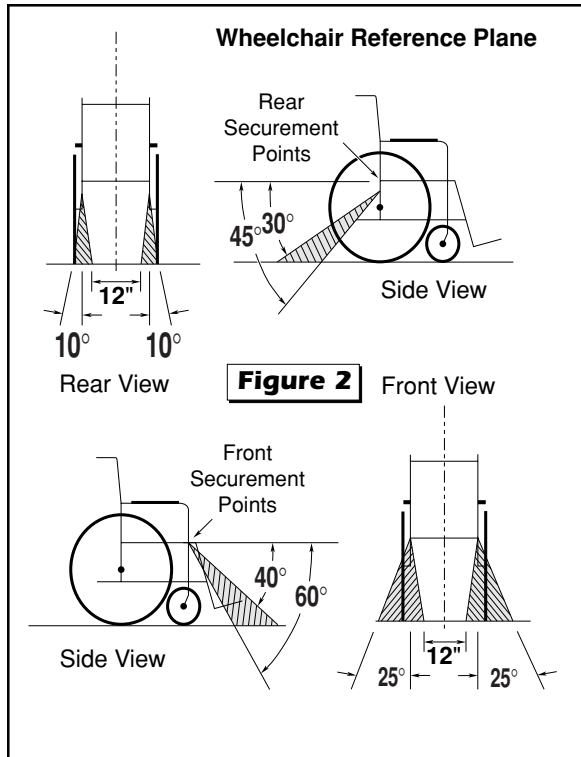
Position of the lap belt buckle, after adjustment, is to be located near hip position. The belt is to be worn low and snugly. Adjustment of the lap belt extension is to be made at adjuster buckle. Wheelchair occupant restraints should not be held away from the body by wheelchair components such as armrests or wheels.

Keep belts clear of sharp objects. Do not alter belts. Do not interchange belts from one position to another. Keep the supplied belts together as a complete set.

Belt and Track Maintenance: Inspect belt assemblies frequently. Any defects such as belt cuts, fraying or malfunctioning call for replacement of the entire belt assembly. “L” track must be clean and not worn, bent or otherwise damaged (prohibiting proper belt attachment). If there is any sign of damage, wear, abnormal condition or improper operation of belts, belt hardware (hooks, keepers, latch plate, receptacle), or track, discontinue use and replace components immediately.

Severe conditions (weather, environment, heavy usage, etc.) may require more frequent inspections. Exposure to severe conditions will dramatically reduce the life of the system.

WHEELCHAIR AND OCCUPANT RESTRAINT

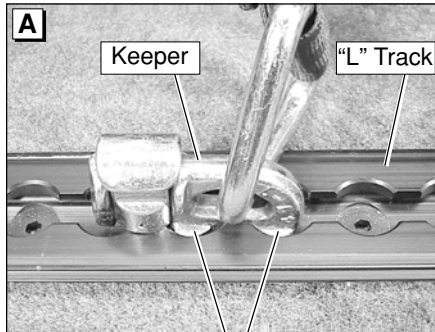


Restraint Belt Angles:

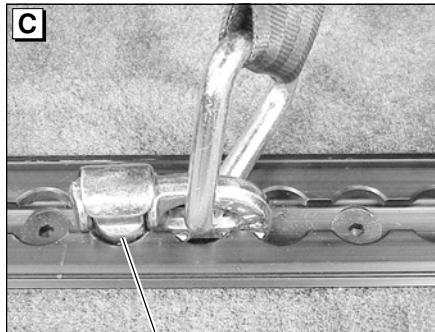
Locate wheelchair in forward-facing position centering wheelchair squarely within "L" track. The front and rear belts, when attached, should create angles approximately as shown in Figure 2. Preferred angles and locations of belts from wheelchair securement points to vehicle anchor points are shown. Front tie-downs should be angled out far for lateral stability when possible. **Note:** These are optimum angles and cannot be achieved in some cases.

Keeper Fitting and "L" Track Attachment Instructions:

The belts supplied in the Forward-Facing Wheelchair and Occupant Belt/Track System are equipped with keeper fittings (attachments) which engage the "L" track. Engage and release the keeper fittings as detailed and shown on page 25. **Note:** Lift to remove the "L" track plastic covers. Refer to pages 28 and 29 for belt attachment and release procedures.



Align engagement feet with holes.



Fully-engaged Keeper

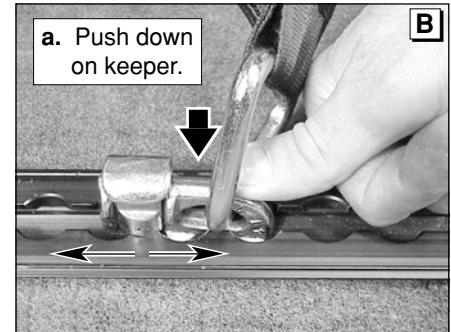
Keeper Fitting and "L" Track Attachment Instructions:

To Engage Keeper Fitting:

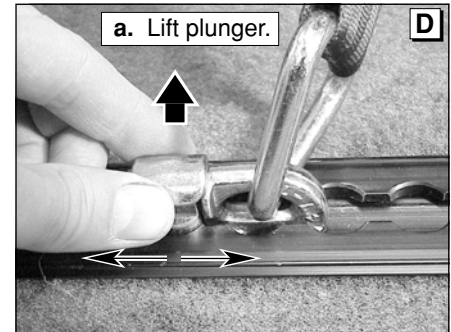
1. Insert keeper fitting into track (align two engagement feet with holes in track). See Photo A.
2. Push down on fitting and slide fitting 1/2 slot in either direction until it clicks and locks in position (see Photos B and C). Pull firmly on belt to ensure fitting is locked in track.

To Release Keeper Fitting:

1. Lift plunger and slide fitting 1/2 slot in either direction and lift fitting out of track.



b. Slide keeper 1/2 slot in either direction.



b. Slide keeper and lift.

WHEELCHAIR AND OCCUPANT RESTRAINT

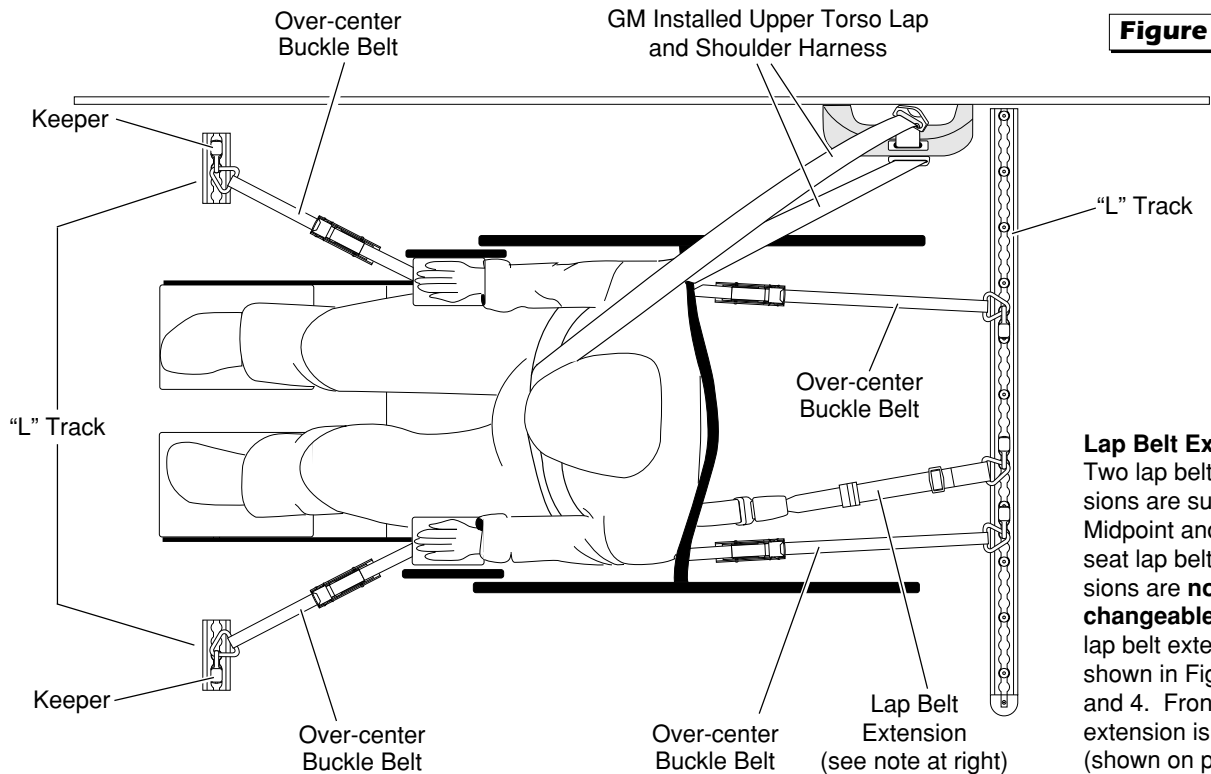


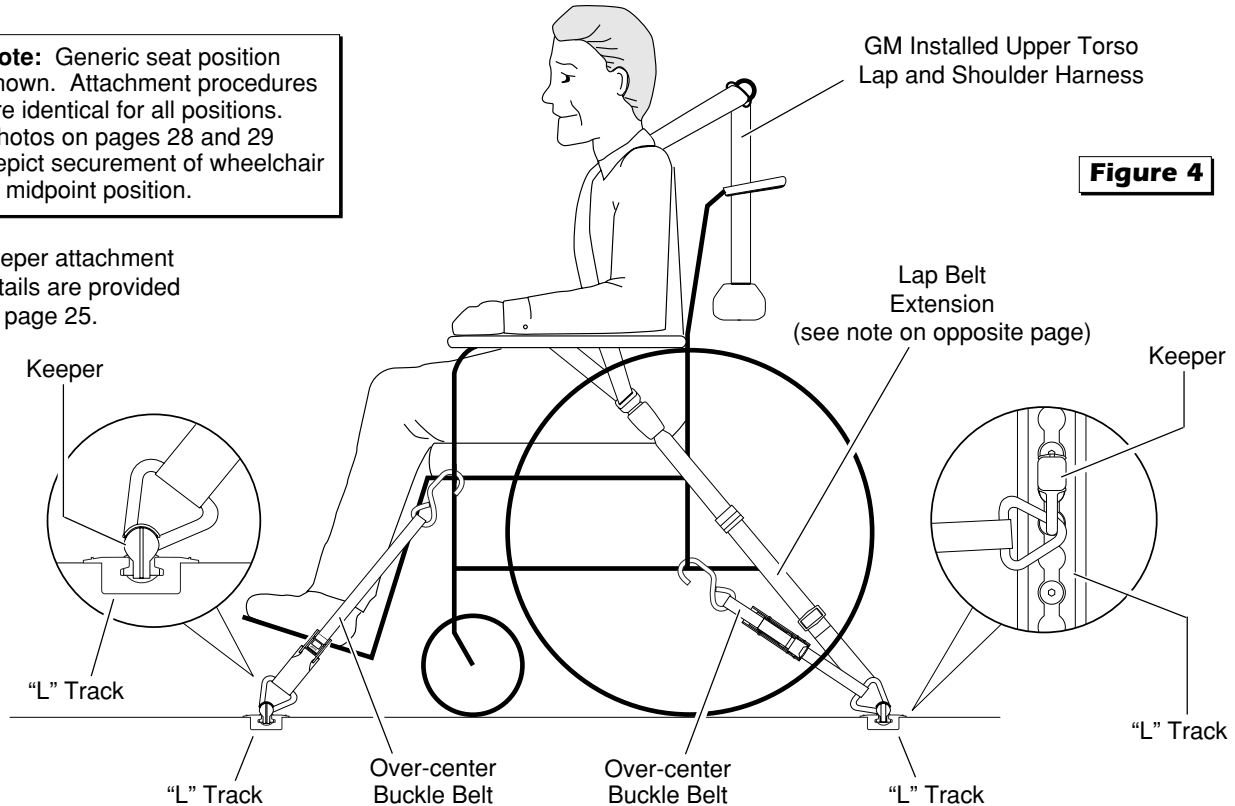
Figure 3

Lap Belt Extensions:
Two lap belt extensions are supplied. Midpoint and front seat lap belt extensions are **not interchangeable**. Midpoint lap belt extension shown in Figures 3 and 4. Front seat extension is rigid cable (shown on page 22).

WHEELCHAIR AND OCCUPANT RESTRAINT

Note: Generic seat position shown. Attachment procedures are identical for all positions. Photos on pages 28 and 29 depict securement of wheelchair in midpoint position.

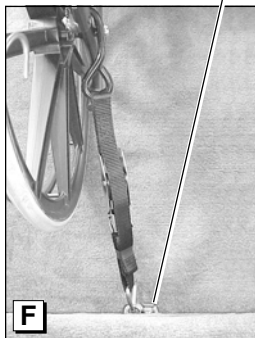
Keeper attachment details are provided on page 25.



WHEELCHAIR AND OCCUPANT RESTRAINT



Hook
Keeper



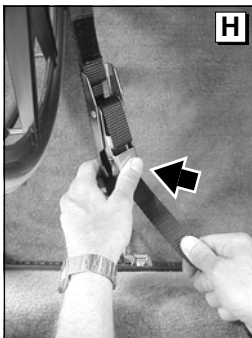
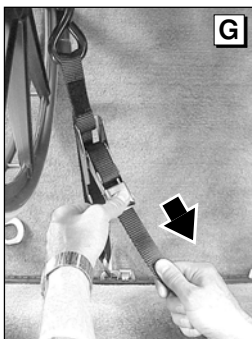
Over-Center Belt Attachments

1. Connect chair hook to a solid frame member of the wheelchair (as shown in Photo E).

2. Position and connect belt keeper fitting (attachment) to appropriate track anchorage point (slots). Attach keeper as detailed on page 25.

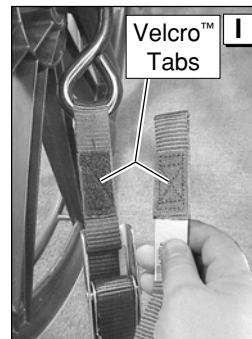
Pull firmly on belt to ensure fitting is locked in track.

Note: Belt angles should be as shown in Figure 2.



3. With buckle open, pull loose end of belt until tight (see Photo G). While holding the loose end with one hand, close the lever of the clamp (buckle) down until it locks. See Photo H.

4. Connect Velcro™



Belt Release: Press lever clamp (lock) to release tension on belt.



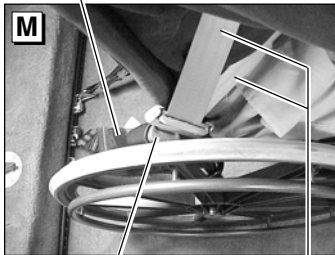
Repeat procedures for all belts.

Note: Check to see that front and rear belts are tight and the chair is secure enough that it does not have any movement. Lock wheelchair brakes.



Lap Belt Extension

Lap Belt Extension



Receptacle

GM Lap and Shoulder Belt

Lap and Shoulder Belt Attachments

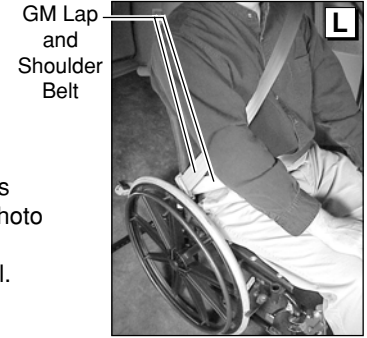
Refer to Photos K-N.

Note: Two lap belt extensions are supplied. The midpoint lap belt extension is an adjustable belt (shown in Photos K-N). The front seat extension is equipped with a rigid cable (nonadjustable - see photo on page 22). Lap belt extensions are **not interchangeable**. Attachment procedures are identical.

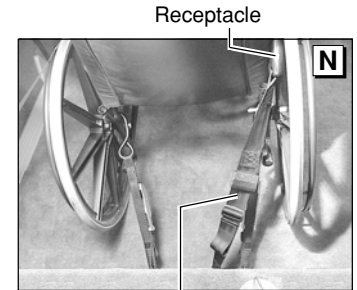
1. Position and connect the lap belt extension keeper fitting (attachment) to appropriate track anchorage point (slots). Attach keeper as detailed on page 25. Pull firmly on lap belt extension to ensure fitting is locked in track.

2. Connect the lap and shoulder belt to the lap belt extension (insert latch plate in female receptacle). Position the upper torso (shoulder) belt across the center of the shoulder. Position the lap belt low across the front of the pelvis (near hip). See Photos K-N.

Wheelchair occupant restraints should not be held away from the body by wheelchair components such as wheelchair armrests or wheels.



GM Lap and Shoulder Belt



Receptacle

Lap Belt Extension

SEAT REMOVAL AND INSTALLATION

Front Seats: In an effort to produce vehicles that can be configured to meet a variety of customer needs, the driver and passenger seat bases have been designed so they may be removed. This feature allows the owner and sales representative to determine the appropriate seating arrangement to accom-

modate owner needs. Once the desired seat arrangement is determined, all power seat electrical harnesses must be reconnected to the appropriate fixed seat positions.

Entervan front seats are equipped with GM's quick-release seat attachments (making seat removal and installation procedures simple). The GM quick-release front seats are installed and removed as detailed in your GM owner's manual and on pages 34 and 35 of this manual.

Power Seats: Entervan front seats are equipped with electrical wiring harnesses to accommodate optional equipment such as heated seats, air bags, etc. **Before removing seats, be**

certain all seat electrical harnesses are disconnected.

When seats are removed, the seat electrical harness **plug must be connected to the receptacle** provided at the top of the seat base. See Photos A-D on page 31.

When positioning seats, it is **your responsibility** to reconnect all seat electrical harnesses. Failure to properly connect power seat electrical harnesses may result in power seat functions being disabled and/or the air bag light illuminating.

Contact your sales representative or call The Braun Corporation at 1-800-THE LIFT if any of this information is not understood.

WARNING

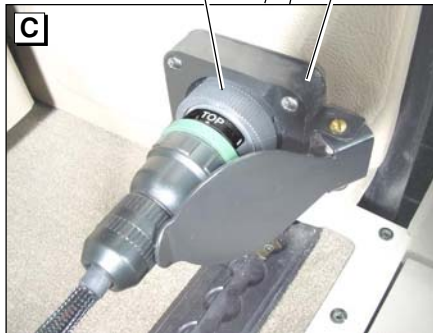
Park vehicle and turn engine off before removing or installing seats. Failure to do so may result in serious bodily injury and/or property damage.



Seat Wiring Harness

Turn this knurled grip.

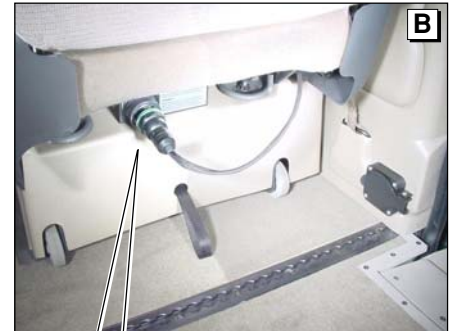
Receptacle



Front Seat Wiring Harnesses and Receptacles:

An electrical harness receptacle is located to the rear of each seat base in the wall (at “B” pillar). The seat wiring harness plug connects to the receptacle socket (screw-on connector details on pages 32 and 33).

Turn the seat harness connector large diameter knurled grip clockwise to connect (turn gripper nearest socket). See Photo C. Turn knurled grip counterclockwise to disengage connectors. Connect the seat electrical harness plug to the receptacle mounted to the top of the seat base when removing seat(s). See Photos B and D.



Seat Storage Receptacle



⚠ CAUTION

Disconnect seat wiring harness before removing seat. Failure to do so may result in property damage.

⚠ WARNING

Connect front seat wiring harness plug to socket provided at top of seat base before removing front seat. Failure to do so may result in serious bodily injury and/or property damage.

Front Seat Wiring Harnesses:

Entervan front seats are equipped with electrical wiring harnesses. See Photos A-D on page 31.

An electrical harness receptacle is located to the rear of each seat base in the wall (at “B” pillar). The seat wiring harness plug connects to the receptacle. **Before removing seats, be certain seat wiring harnesses are disconnected.**

When seats are removed, the **seat electrical harness plug must be connected to the receptacle** provided at the top of the seat base. When installing seats, **be certain seat wiring harnesses are reconnected.** Failure to do so may result in power seat functions being disabled and/or the air bag light illuminating.

Screw-on Connectors:

Front seat wiring harnesses are equipped with a screw-on connector (plug). Operate connectors as detailed here and on page 33.

A label is posted on the seat wiring harness plug which identifies the top of the connector (“TOP” decal 28891). Position the plug with the “TOP” label facing up when connecting the plug to either receptacle socket. Use this feature as an alignment guide.

Note: Alignment grooves (slots) are provided in receptacle sockets. Receptacle sockets have a single wider alignment groove that is positioned at 12 o'clock (shown on page 33). Seat wiring harness plugs are equipped with mating alignment guides (ears).

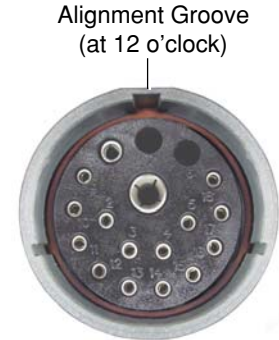


Screw-on Connectors:

To Connect: Align the seat harness connector by positioning the plug with the "TOP" label facing up. Align the seat harness connector alignment guides with the receptacle socket alignment grooves (will only connect one way).

Carefully insert the seat harness plug in the receptacle socket. Turn seat harness connector large diameter knurled grip clockwise fully (turn gripper nearest to socket).

To Disconnect: Turn seat harness connector large diameter knurled grip counter-clockwise and disengage connectors.



Receptacle Socket

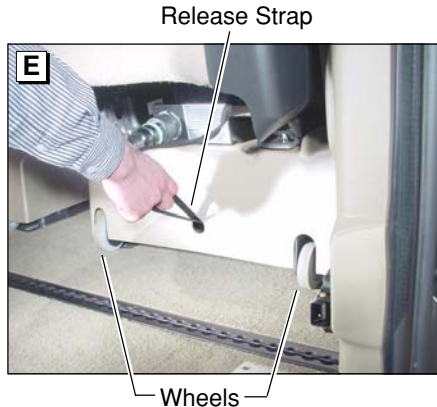


Seat Harness Plug

SEAT REMOVAL AND INSTALLATION

Quick-Release Front Seat Base

GM's quick-release seat base attachments engage recessed floor strikers (supports). A release strap is located at the rear of the seat base (see Photo E). Pulling the release strap disengages the attachments and allows easy removal of the seats.



Tip rear of seat backwards and roll seat base out of vehicle as shown. **Note:** Push top of seat forward while pulling strap for easier disengagement.



Tip seat back

Caution: Do not contact the ramp when reclining or moving seats. Doing so may result in property damage.



and roll out of vehicle.

Front Seat Removal Instructions

1. **Disconnect seat wiring harnesses before removing seats.** See pages 30-33 for wiring harness details and photos. **Connect harness to receptacle** provided at top of seat base (see Photos B and D on page 31).
2. Pull the release strap (loop) located at the rear of the seat

⚠ CAUTION

Disconnect seat wiring harness before removing seat. Failure to do so may result in property damage.

base (see Photo E on page 34). Seat base will release from floor supports. **Note:** Push top of seat forward while pulling strap for easier disengagement.

3. Tip rear of seat backwards and roll seat base out of vehicle. See Photos F and G on page 34.

Front Seat Installation Instructions

1. Roll seat base into position (aligning the seat base attachments with the recessed floor strikers).
2. Push seat down and forward to latch the front seat attachments with the recessed floor strikers (receptacles) first. Once the front is latched fully, push

downward on the rear of the seat to latch the rear seat attachments. **Be sure the seat is fully latched in floor supports** before occupying seat or operating vehicle.

3. Connect (plug) the electrical harness to the “B” pillar receptacle. See pages 30-33 for details.

⚠ WARNING

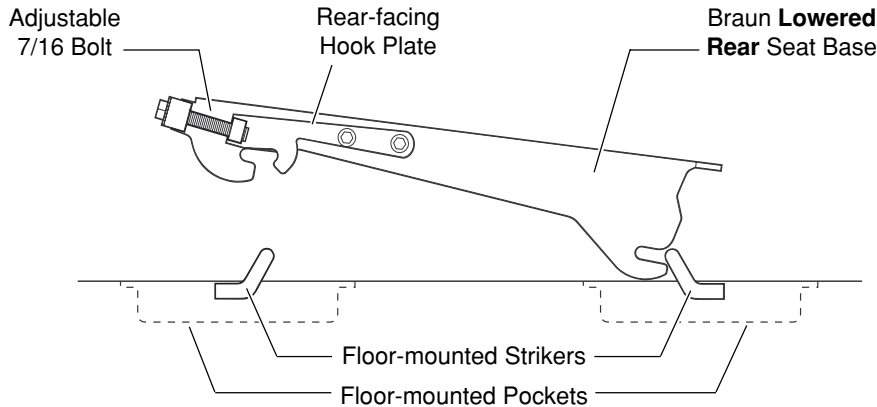
Seat attachments must be fully latched in floor supports before occupying seats or operating vehicle. Failure to do so will result in serious bodily injury.

SEAT REMOVAL AND INSTALLATION

Bolt-in Rear Seat Base:

Lowered rear bolt-in seat bases are equipped with four front-facing hook type attachments (two in front and two in rear). These attachments engage the recessed floor strikers. Rear-facing hook type attachments (plates) are bolted to the two seat base side plates (at rear). The rear-facing hook plates engage the recessed floor strikers also. The opposing hooks lock the seat in place.

Each of the rear-facing hook plates is secured with one 7/16-20 x 1" hex bolt (adjustment bolt). Turning the bolt clockwise draws the rear-facing hook rearward to lock the seat base in place. Turning the adjustment bolt counterclockwise moves the rear-facing hook forward to allow seat removal. Remove and install the bolt-in seat base as outlined.



⚠ WARNING

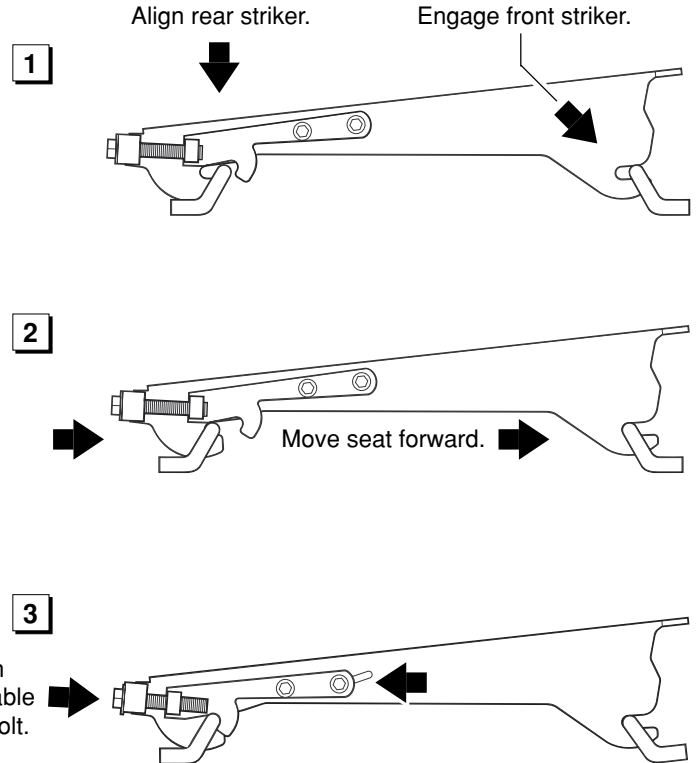
Install seats as specified before occupying seats or operating vehicle. Failure to do so may result in serious bodily injury and/or property damage.

Bolt-in Rear Seat Installation Instructions:

1. Position seat (engage front striker and align rear striker).
2. Shift seat base **fully** forward (be certain the front-facing hook plates **engage strikers fully**).
3. Turn the 7/16-20 x 1" hex bolt clockwise to engage and tighten rear-facing hook fully. **Both** opposing **hooks** (front-facing and rear-facing) **must contact the rear striker fully**.

Bolt-in Rear Seat Removal Instructions:

Reverse above procedures.



WARRANTY

□ In accordance with the GM 6 year/100,000 mile corrosion warranty, The Braun Corporation warrants to the purchaser of its Entervan conversion that the metal fabrication on or of the frame, floor and lowered door extension are free from defects in material and factory workmanship for a period of 6 years or 100,000 miles on the odometer, whichever occurs first. The Braun Corporation further warrants to the purchaser that the remainder of the modifica-

tions and alterations for associated parts are free from defects in material and workmanship for a period of 36 months or 36,000 miles, whichever comes first. For clarification purposes, the following chart outlines The Braun Corporation Entervan warranty coverage. Refer to your GM warranty information booklet for all GM OEM (factory) limited warranty details.

Years/Miles in Service	Specific Area Covered
<p style="text-align: center;">36 Months or 36,000 Miles (whichever comes first)</p>	<p>Entervan frame and floor structural components</p> <p>Entervan ramp, door and associated structural components</p> <p>Entervan electrical components including but not limited to switches, wires, connectors and the controller</p>

Years/Miles in Service	Specific Area Covered
<p>36 Months or 36,000 Miles (whichever comes first)</p>	<p>Entervan appearance items including but not limited to interior floor covering and slide door lowered extension assemblies.</p>
<p>6 Year or 100,000 Miles (whichever comes first) Corrosion Warranty see *Exceptions at right</p>	<p>Corrosion Warranty:</p> <p>Entervan frame, floor and lower door modification metal fabrication corrosion applies to perforation only. Entervan lower slide door modification corrosion applies to outer-body sheet metal and paint. Perforation is a rust-through condition such as an actual hole in the metal.</p> <p>* Exceptions: Cosmetic or surface corrosion (resulting from stone chips for example) would not be covered or repaired under this coverage. If corrosion does not cause holes, and is not the result of usage and/or environmental conditions, repair coverage lasts for 3 years or 36,000 miles, whichever comes first.</p>

WARRANTY

- Both the 6 year/100,000 mile corrosion and the 3 year/36,000 mile warranties described on previous page commence on the date the conversion is put into service, providing the warranty registration card is completed and received by The Braun Corporation within thirty days of the purchase.
- The Braun Corporation agrees to repair or replace any of its Entervan factory-installed parts found to be defective within the appropriate warranty period or mileage. This warranty also covers the cost of labor for the repair or replacement of said parts for one year provided that the repair is authorized by The Braun Corporation and carried out by an authorized service establishment (a Braun labor schedule determines the cost allowance for repairs). The Braun Corporation will not honor any warranty claim for repairs or replacement of parts unless the claim is submitted with the appropriate factory warranty authorization data and the repairs or replacement of the parts are completed by a factory-authorized repairman. The factory authorization data, together with the name and location of the factory-authorized repairman, can be obtained by

either written or telephone contact with The Braun Corporation at the addresses appearing in this manual.

- The return authorization procedure must be adhered to in order to process any warranty and repair claims (details below).
- The Braun Corporation reserves the right to designate where any warranty work is to be performed.
- The Braun Corporation also reserves the right to examine any defective workmanship or part prior to any authorization of necessary repairs. This Entervan warranty is not intended to replace or substitute any other warranties issued by the original manufacturer of the vehicle or other suppliers of components. This warranty shall not apply to any part or workmanship that may become defective due to misuse, neglect, accident or other casualty, modifications or alterations or unauthorized repairs. Further, this warranty shall not extend to parts or workmanship that may become defective because of the failure of

anyone to operate the same in accordance with the printed instructions of The Braun Corporation or because of operation of the same beyond its capacity.

This warranty does not cover normal maintenance, service, or periodic adjustments necessitated by use or wear.

Second buyers of a Braun Entervan conversion may transfer the remaining warranty, if any, by obtaining a transfer of warranty application from The Braun Corporation. This application must be returned to The Braun Corporation within thirty days from the date you purchase the vehicle and proof of the date of purchasing must be supplied with the transfer of warranty application. There will be a minimum warranty transfer fee.

The Braun Corporation shall not be liable for any incidental or consequential damages resulting from any breach of warranty.

The Braun Corporation shall not be liable for towing charges, travel and lodging, or any other expense incurred due to the loss of use of vehicle or other reason.

PREVENTIVE MAINTENANCE

Maintenance is necessary to ensure safe and troublefree Entervan operation. General preventive maintenance consisting of inspections of your Entervan systems along with cleaning and lubricating procedures should be a part of your routine (lubrication requirements are minimal). Regular preventive maintenance procedures will increase the service life of the Entervan, as well as enhancing safety.

Keeping the in-floor ramp and ramp cassette area clean is the most effective preventive maintenance practice to exercise. Dirt, mud, snow, ice and other foreign objects entering the cassette could result in potential ramp problems.

During routine inspections, operate all Entervan systems and note the

following (as equipped):

- Is the power source adequate or weak?
- Does the electronic control system function properly?
- Do the control switches function properly?
- Does the power door function properly?
- Does the ramp deploy and stow properly?
- Inspect wheelchair and occupant restraint belts, buckles and hardware for damage, wear, abnormal condition or improper operation.

Entervan in-floor ramps are equipped with maintenance-free self-lubricating bearings to decrease wear, provide smooth operation and extend the service life of the ramp. These components do not require lubrication

under normal conditions (although the ramp should be inspected and cleaned routinely).

Light oil should be applied to the inboard ramp hinge. Clean the hinge and the surrounding area before applying lubricants. LPS2 General Purpose Penetrating Oil is recommended by and available from the Braun Corporation (part number 15807). Use of improper lubricants can attract dirt or other contaminants which could result in wear or damage to components.

Clean often and lubricate approximately every four weeks or 100 cycles. These intervals are a general guideline and will vary according to frequency of use and conditions. Exposure to severe conditions (weather, environment, heavy usage, etc.) may require

inspection and maintenance procedures to be performed more often. Preventive maintenance visual inspections, cleaning and lubrication procedures **do not** take the place of the procedures specified in the Maintenance and

WARNING

Maintenance and lubrication procedures must be performed by authorized service personnel as specified in the applicable Entervan service manual. Failure to do so may result in serious bodily injury and/or property damage.

Lubrication Schedule provided in the Entervan service manual. The procedures outlined in the Maintenance and Lubrication Schedule **must be performed at the recommended scheduled intervals by an authorized Braun Corporation service representative who has attended and been certified by The Braun Corporation Sales and Service School.**

If there is any sign of damage, wear, abnormal condition or improper operation, **discontinue Entervan use immediately.** Contact your sales representative or call The Braun Corporation at 1-800-THE LIFT. One of our Product Support representatives will direct you to an authorized service technician who will inspect your Entervan.

Jacking and Tire Changing

Interior Spare Tire Mount: The spare tire is mounted behind the rear bench seat. The jack and tire changing tools are located in the storage compartment at the rear of the vehicle, on the passenger's side (OEM storage location).

Jacking and Tire Changing

Procedures: Jacking and tire changing procedures have not been affected by the conversion. Detailed tire changing instructions are provided in the GM-supplied owner's manual.

Refer to the GM-supplied manual for tire changing instructions and safety precautions, as well as instructions regarding other roadside emergencies.

AUXILIARY POWER SUPPLY / BELOW FLOOR OBSTRUCTIONS

Note: The technical information provided on pages 44-49 of this manual is service related. If you are having an electrical tie-down, power seat or other auxiliary electrical device installed in your Entervan, this information should be supplied to the technician. Otherwise, disregard this section.

Auxiliary Power Supply: Do not connect auxiliary devices directly

⚠ CAUTION

Do not connect auxiliary devices to vehicle battery. Doing so may result in damage to electrical system and/or electronic components.

to the vehicle battery. Doing so **may result in damage to electrical system and/or electronic components.**

Two fuse blocks are provided as an auxiliary power source for dealer-installed auxiliary electrical device(s). Fuse block details and specifications are provided on page 47. The fuse blocks are located on the passenger side of the dash center console. Access the fuse blocks as outlined on pages 45 and 46.

Below Floor Obstructions:

When installing aftermarket equipment in an Entervan, obstructions below the floor must be avoided. Obstructions include wiring, fuel system, brake lines, etc. Installers must be aware of these obstructions.

Refer to the illustration on page 49 to avoid contacting or damaging vital components under the floor.

⚠ WARNING



**Risk of electrical fire!
Install and electrically terminate auxiliary electrical device as specified by device manufacturer.**

AUXILIARY POWER SUPPLY / BELOW FLOOR OBSTRUCTIONS

Auxiliary Power Supply

Do not connect auxiliary devices directly to the vehicle battery. Doing so **may result in damage to electrical system and/or electronic components.**

Two fuse blocks are provided as an auxiliary power source. This power source is available for installation of a dealer-installed power seat, an electric tie-down or other auxiliary electrical device (details on pages 44-47).

Fuse Block Access Instructions

The fuse blocks are located on the passenger side of the dash center console. Remove the center console components as outlined here and on page 46 to access the fuse blocks.

Center Console



Accessory Power Outlet

Lower Storage Compartment

Remove Accessory Power Outlet panel.



Blue Locking Clip

Wiring Harness

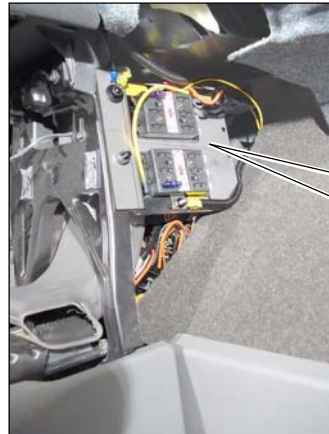
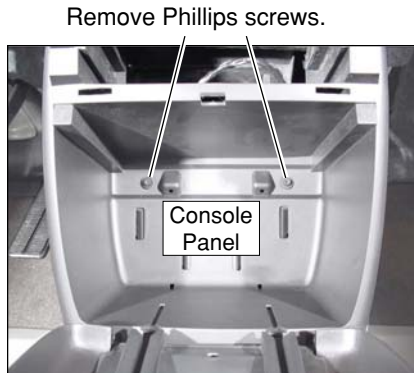
AUXILIARY POWER SUPPLY / BELOW FLOOR OBSTRUCTIONS

Open the lower storage compartment (see page 45). **Carefully** remove the Accessory Power Outlet panel (secured with two spring-type fasteners - one at both sides). Pull out the panel. **Caution!** Do not strain or otherwise damage the Power Outlet wiring harness during removal.

Caution! Carefully disconnect the Accessory Power Outlet wiring harness. Remove the blue locking clip and disconnect harness plug (see page 45).

Remove the two Phillips screws

securing the console main plastic panel (located inside the lower storage compartment). Remove the console panel. The Entervan auxiliary power supply fuse blocks are located to the right side of the console area as shown below.



Auxiliary Power Supply Fuse Blocks



AUXILIARY POWER SUPPLY / BELOW FLOOR OBSTRUCTIONS

Fuse Blocks: Two fuse blocks are provided for use as an auxiliary power source (one **Ignition** fuse block and one **Battery** fuse block).

The Battery fuse block provides power at all times (independent of the vehicle ignition). The Ignition fuse block supplies power when the vehicle ignition is on only.

Each fuse block can accommodate up to five additional ATO® type fuses (specifications at right). The **total maximum load (combination of both fuse blocks) must not exceed 50 amperes.**

The **installer is responsible for supplying the correct gauge wire and fuse** for the particular device to be attached to the fuse block (**as specified** by the manu-

facturer of the device).

Fuse Specifications:

Ignition Fuse Block: Fuses installed in all fuse positions must not exceed 15 amperes (total **cannot** exceed 50 amperes).

Battery Fuse Block: Amperage of fuses installed in the Battery fuse block is dependent upon fuses installed in the Ignition fuse block. The **total maximum load (combination of both fuse blocks) must not exceed 50 amperes.**

Note: If installing an auxiliary electrical device that requires more than a 50 ampere power source, an alternative power source must be provided.

Ignition Fuse Block



Battery Fuse Block

AUXILIARY POWER SUPPLY / BELOW FLOOR OBSTRUCTIONS

Below Floor Obstructions

When installing an electrical tie-down, power seat or other auxiliary electrical device in an Enter-van, obstructions below the floor

must be avoided. Obstructions include wiring, fuel system, brake lines, etc. Installers must be aware of these obstructions.

Refer to the illustration on the following page when installing aftermarket equipment to avoid contacting or damaging vital components under the floor. **Drilling or cutting into such obstructions may result in potential hazards as well as property damage.**

Note: Some wiring harnesses shown may not be present. Avoid all harness locations.

WARNING

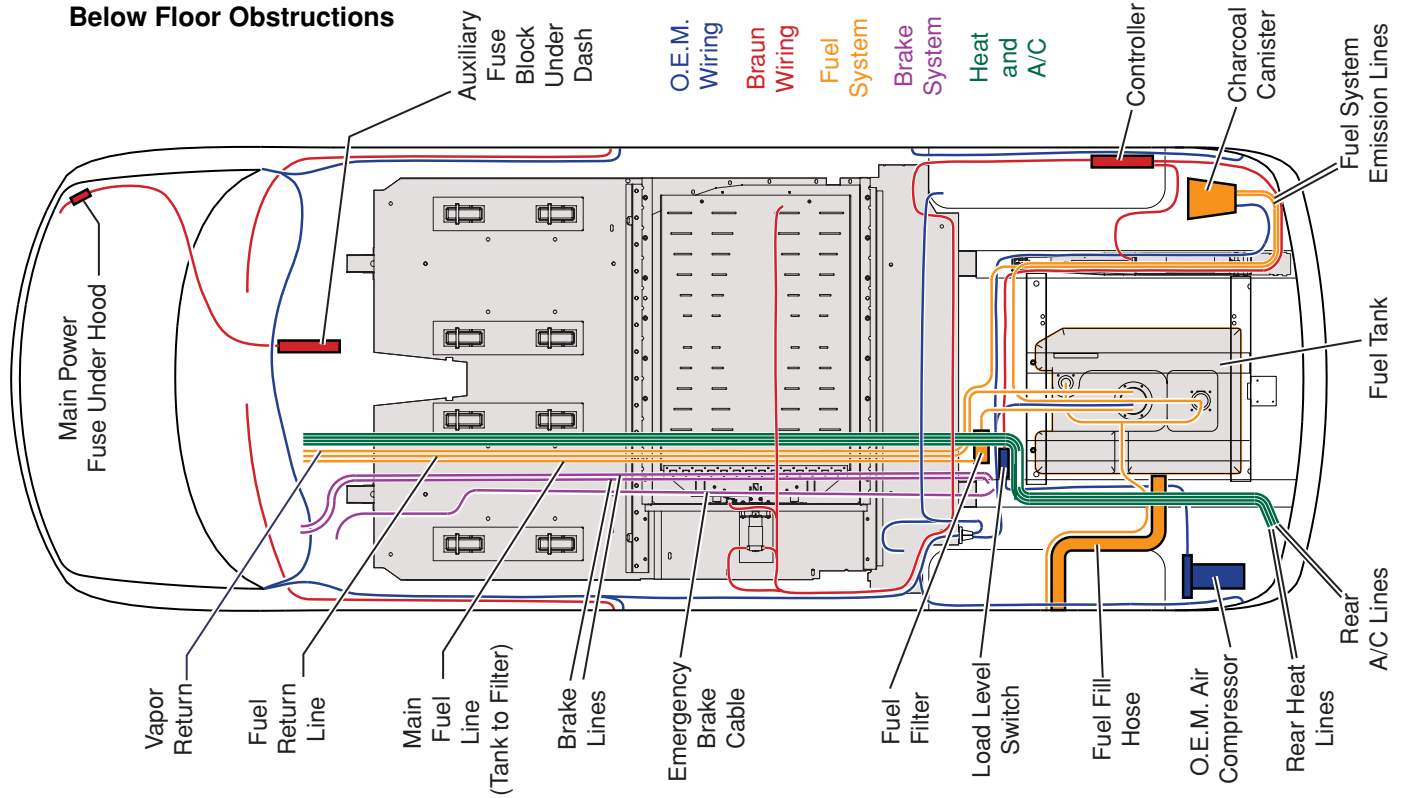
Check for obstructions such as wires, gas lines, exhaust, etc. before drilling or cutting through floor. Failure to do so may result in serious bodily injury and/or property damage.

WARNING



Risk of electrical fire! Install and electrically terminate auxiliary electrical device as specified by device manufacturer.

AUXILIARY POWER SUPPLY / BELOW FLOOR OBSTRUCTIONS



"Providing Access to the World"®



**Over 300 Braun
Dealers Worldwide**

BRAUN



CONSUMER

In-Floor Ramp

ENTERVAN

**Wheelchair-Accessible
Lowered Floor Conversion
featuring 2002-2004
GM Minivans**

Operator's Manual



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