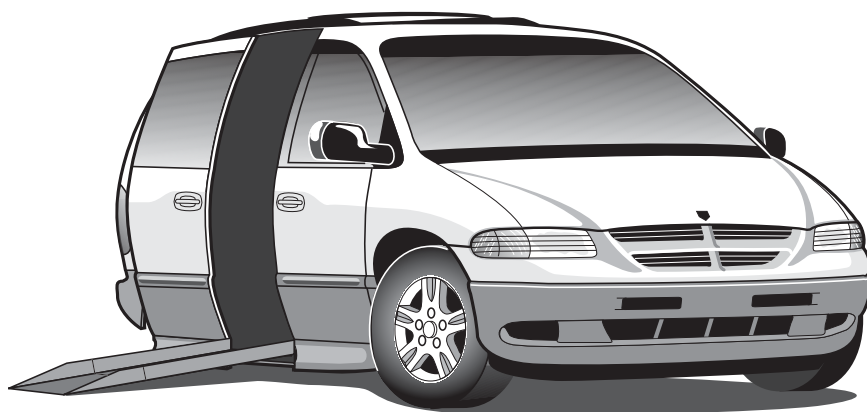




Owner's/Service Manual for
Series **03** and **later**
Fully-Automatic
1996 and newer Chrysler
Entervan® II



"Providing Access to the World"

International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT (219) 946-6153 FAX: (219) 946-4670

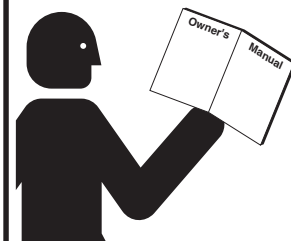


Note to Dealer:

Provide this manual
to the consumer

See inside cover for
warranty/registration
information

WARNING



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

Braun Series 03 and later
1996 and newer Chrysler Entervan® II

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 operating instructions, servicing instructions, and instructions for troubleshooting, if needed.

Your Entervan® II 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

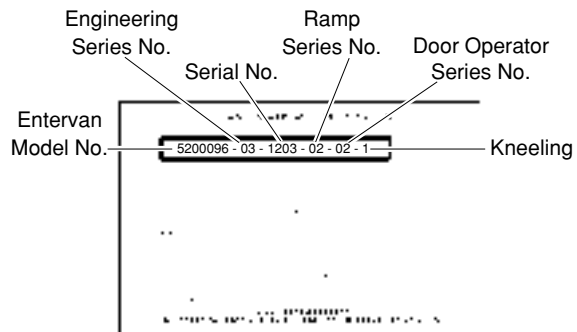


Ralph W. Braun
Chief Executive Officer

Warranty/Registration Instructions

Immediately upon receiving:

- Examine your Entervan® for any damage. Notify the carrier at once with any claims.
- Two warranty/registration cards (shown right) are supplied with each Entervan®. One is labeled "Dealer" and the other is labeled "Owner." The dealer must process the card labeled "Dealer." The consumer must fill out the card labeled "Owner" and mail it to The Braun Corporation. Warranty details are provided in the Warranty section within this manual.



Sample: Warranty/Registration Card

- The Braun Serial No./Series No. identification decal (shown below) is located on the Entervan® driver's door jamb. This I.D. tag contains the product identification information provided on the Warranty/Registration card. Record the information in the space provided below. This information **must** be provided when filing a warranty claim or ordering parts. **See the Return Authorization section for further details.**



Sample: Identification Decal

Entervan® Model No. _____

Engineering Series No. _____

Serial No. _____

Ramp Series No. _____

Door Operator Series No. _____

Date of Manufacture _____

- **RETAIN THIS INFORMATION FOR FUTURE USE. HAVE THIS INFORMATION WHEN FILING A WARRANTY CLAIM OR ORDERING PARTS!**

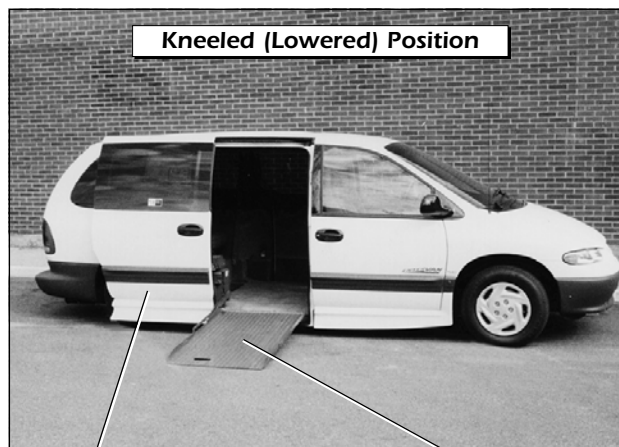
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Entervan II Features and Options



Normal (Non-Kneeled) Position



Kneeled (Lowered) Position

Power Slide Door

Power Ramp

Standard Features:

The Braun Series 03 1996 and newer Chrysler Entervan II conversion offers the following standard features in addition to the Chrysler Mini-Van chassis equipment.

☐ **Electromechanical Power Kneeling Rear Suspension with On/Off and Override Features:** "Kneeling" is the lowering and raising motion of the Entervan electro-mechanical rear suspension (shown above). The kneel feature reduces the slope of the ramp when deployed. A Kneel On/Off Switch, an Out-of-Park Override and a Mechanical Override are incorporated in the electromechanical power kneeling system. See pages 11 and 12 for further details.

☐ **Power Slide Door with Manual Release Feature:** The power door and lowered floor configuration provides 52-3/4" clear vertical passageway. See page 12 for details.

☐ **Removable Power Ramp with Manual Release Feature and Passive Access Feature:** See pages 13 and 14 for further details.

☐ **Passive (Non-Wheelchair) Access:** This feature allows passive (non-wheelchair) access to the passenger side slide door opening when desired. See page 19 for further details.

☐ **Lowered Floor from Rear Axle to Firewall:** This feature provides additional headroom (57-1/2" floor-to-ceiling at center of van), and further reduces the slope of the power ramp when deployed. See Position C in the illustration and photos on the opposite page.

☐ **Lowered Driver-Side Second Sliding Door:** The Braun Corporation Entervan II conversion is available for Chrysler Mini-Van chassis equipped with the driver-side second sliding door option **only**.

☐ **Quick-Release Driver Seat:** For the wheelchair occupant who chooses to drive the Entervan II, 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 dealer. 56" floor-to-ceiling headroom is provided at this seating position. See pages 30 and 31 for seat removal and installation instructions.

☐ **Quick-Release Front Passenger Seat with Floor Track for Wheelchair and Occupant Securement:** This seat (Position B) can be removed and the seat location can be utilized by a wheelchair occupant. 56" floor-to-ceiling headroom is provided at this seating position.

☐ **Floor Track for Wheelchair and Occupant Securement in Mid-Point Lowered Floor Area:** Floor track provided in the mid-point lowered floor area (Position C) can be utilized for restraint of wheelchair passenger(s). Wheelchair capacity at mid-point may have limitations based on the physical dimensions of specific wheelchairs. See pages 25-29 for details and instructions for wheelchair and occupant restraint.

☐ **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 **only**. Additional belt kits can be purchased. The belt kit is used in conjunction with the floor track. See pages 25-29 for details and instructions for wheelchair and occupant restraint.

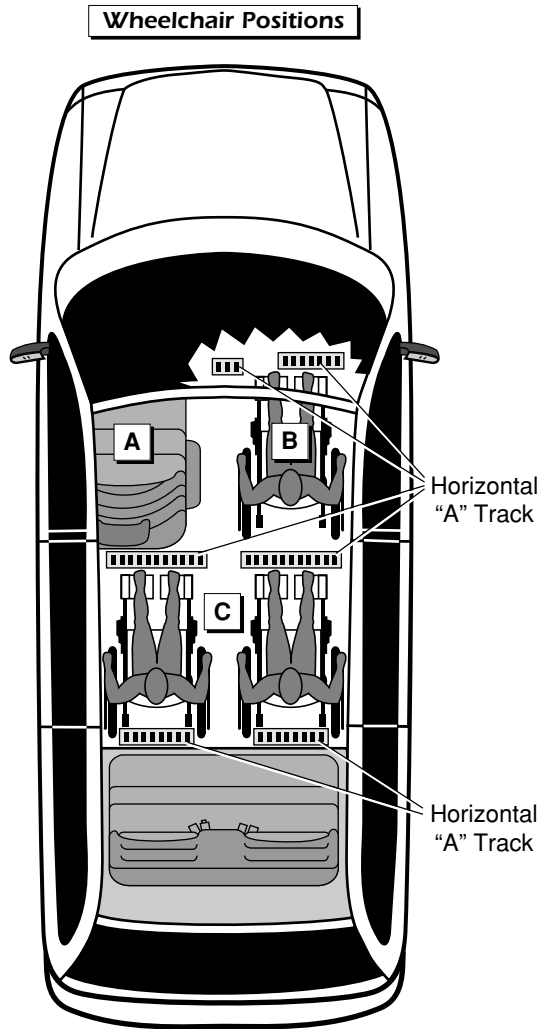
☐ **Easy-Out Roller™ 3-Passenger Bench Seat at Rear of Vehicle:** See page 29 for further details.

☐ **Auxiliary Power Supply for Dealer-Installed Power Seat or Electric Tie-Downs:** See page 44 for details.

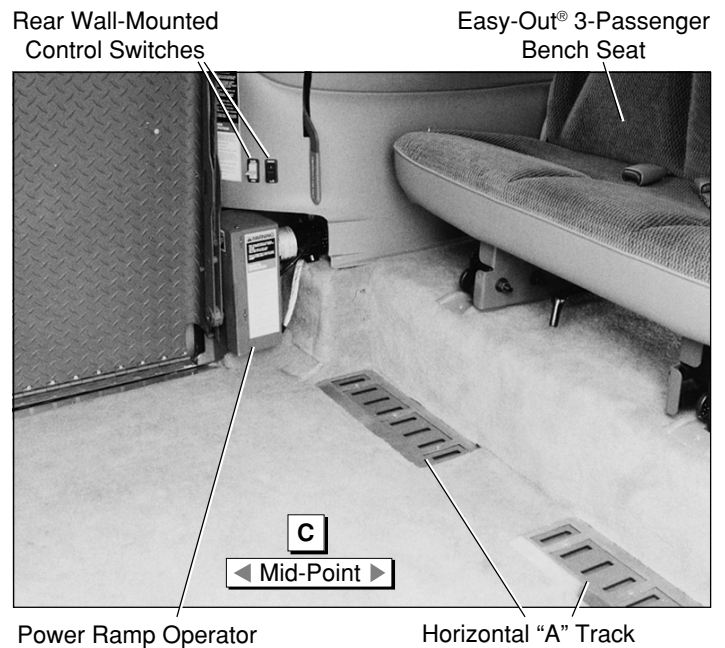
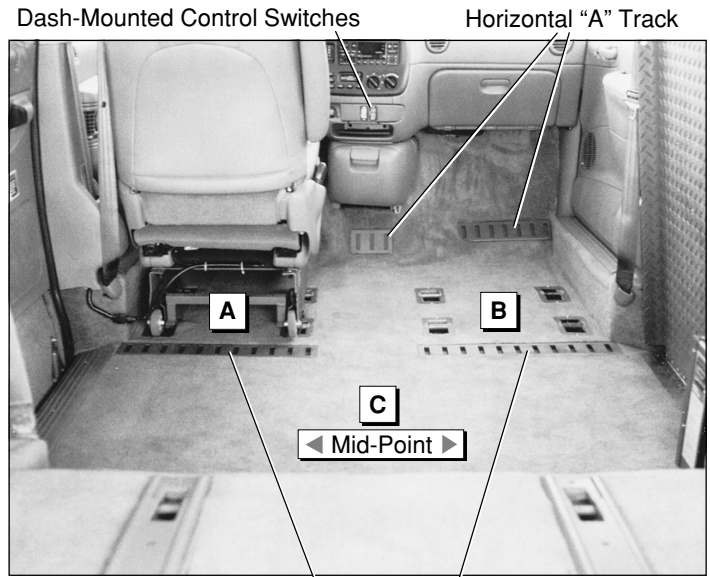
☐ **Interior Spare Tire Mount/Storage Cabinet:** See pages 32 and 33 for details.

☐ **Color-Coded Control Switches:** Color-coded and function-labeled control switches that correspond to the color coding and switch function labels which appear on the Power Operation Instructions decal are provided

Entervan II Features and Options



Wheelchair Seating Positions: Wheelchair passengers shown depict the available wheelchair seating positions. Wheelchair capacity at mid-point (Position C) may have limitations based on the physical dimensions of specific wheelchairs.



inside the Entervan (dash and rear wall locations). See pages 7-10 for details.

☐ **Remote Control:** Two mini remote control transmitters are supplied for automatic operation of kneeling, door and ramp functions. See page 9 for details.

☐ **Passenger Door Outside Key Entry System:** An outside key entry incorporated in the front passenger side door lock activates the automatic operation of kneeling, door and ramp functions as well as operating the passenger door lock. See page 10 for details.

Options:

- Extra Wheelchair and Occupant Securement System
- Full Size Remote Control Transmitter
- Extra Mini Remote Control Transmitter
- Remote Start

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.

B

⚠ WARNING

This symbol indicates important safety information regarding a potentially hazardous situation that could result in **serious bodily injury and/or property damage**.

C

⚠ CAUTION

This symbol indicates important information regarding how to avoid a hazardous situation that could result in **minor personal injury or property damage**.

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

These symbols will appear throughout this manual as well as on the labels posted on your Entervan. **Recognize the seriousness of this information.**

Safety Precautions

⚠ WARNING

If the operating instructions, manual operating instructions and/or safety precautions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in **serious bodily injury and/or property damage**.

⚠ WARNING

Read this manual, supplement(s) and the Chrysler-supplied vehicle owner's manual before operation. Read and become familiar with all safety precautions, pre-operation notes and details, operating instructions and manual operating instructions before operation. **Note:** Wheelchair passengers, wheelchair attendants, Entervan drivers and Entervan operators must read and become familiar with the contents of this manual and supplement(s) before operation.

⚠ WARNING

Load and unload on level surface only.

⚠ WARNING

Engage vehicle parking brake before operation.

⚠ WARNING

Provide adequate clearance outside the vehicle to accommodate the ramp.

⚠ WARNING Do not operate Entervan if you suspect damage, wear or any abnormal condition.

⚠ WARNING Keep clear of area in which the door and ramp operate.

⚠ WARNING Close driver-side slide door before loading and unloading wheelchair passengers.

⚠ WARNING Wheelchair passengers must position and secure (buckle, engage, fasten, etc.) the wheelchair-equipped occupant seat belt before loading onto the wheelchair ramp.

⚠ WARNING Be aware of the Entervan ramp slope (angle).

Safety Precautions

- ⚠ WARNING** Do not board an Entervan ramp if you or your attendant are intoxicated.
- ⚠ WARNING** The wheelchair must be positioned in the center of the ramp when loading and unloading.
- ⚠ WARNING** Load and unload clear of vehicular traffic.
- ⚠ WARNING** Keep clear of area in which the vehicle kneels (lowers).
- ⚠ WARNING** Do not activate control switches when anyone is near the area in which door operates, ramp operates or vehicle kneels.
- ⚠ WARNING** Do not disengage vehicle transmission from Park "P" when a wheelchair passenger is on the ramp.
- ⚠ WARNING** Do not press KNEEL switch to NO position when a wheelchair passenger is on the ramp.
- ⚠ WARNING** Do not overload or abuse the ramp. The design load capacity is 600 pounds.
- ⚠ WARNING** Do not grip detachable wheelchair parts when assisting to stabilize wheelchair.
- ⚠ WARNING** Do not drive Entervan with the rear of the vehicle in the kneeled (lowered) position.
- ⚠ WARNING** Keep this manual and the Chrysler-supplied vehicle manual in the Entervan at all times.
- ⚠ WARNING** Replace missing, worn or illegible decals.
- ⚠ WARNING** Do not remove any guards or covers.
- ⚠ WARNING** Do not use accessory devices* not authorized by The Braun Corporation.
- ⚠ WARNING** Do not use an Entervan for towing. Towing with an Entervan is **prohibited**.
- ⚠ WARNING** Do not install a raised top kit on an Entervan.
- ⚠ WARNING** Never modify (alter) a Braun Corporation Entervan.

Manual Operation

- ⚠ WARNING** Clear ramp path before performing manual unfold procedures. Ramp will free-fall.
- ⚠ WARNING** Be certain door is fully open when manually unfolding and folding the ramp during manual operating procedures.
- ⚠ WARNING** Keep clear of moving parts when manually operating door and/or ramp.

Remote Control

- ⚠ WARNING** Be aware of the location and condition of the remote control transmitter at all times. Accidental activation of switches may cause unintended operation.
- ⚠ WARNING** Do not operate remote control unit with anyone on the ramp or near the area in which door operates, ramp operates or vehicle kneels.
- ⚠ WARNING** Discontinue remote control use immediately if any unexplained and/or improper operation occurs. Contact your dealer or call The Braun Corporation at 1-800-THE LIFT.
- ⚠ WARNING** Do not interface after-market control systems* with a Braun Entervan.

* See page 6 for **The Braun Corporation After-Market Control Systems Policy**.

Safety Precautions

⚠ WARNING

If the operating instructions, manual operating instructions and/or safety precautions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

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.
- ⚠ WARNING** The Wheelchair and Occupant Belt/Track System supplied with this unit must be utilized as specified within this manual.
- ⚠ WARNING** Read and become familiar with all Forward-Facing Wheelchair and Occupant Belt/Track System Instructions as specified in this manual prior to installation or operation procedures. If the instructions are not fully understood, contact The Braun Corporation immediately.

- ⚠ WARNING** When using wheelchair restraints not supplied with the Entervan, read and become familiar with all installation and operation instructions supplied with your particular wheelchair restraint system prior to installation or operation procedures. If the instructions are not fully understood, contact the manufacturer immediately.

Non-Wheelchair Passenger Restraint

- ⚠ WARNING** Observe all local, state and federal laws for specific seat belt usage requirements.
- ⚠ WARNING** Refer to Chrysler-supplied owner's manual for instructions regarding passenger (children and adults) restraints.

Quick-Release Front Seats

- ⚠ WARNING** Quick-release front seat securement devices must be fully engaged before occupying seats or operating vehicle.

Chrysler Easy-Out Roller™ Seats

- ⚠ WARNING** Install, remove and operate Chrysler Easy-Out Roller™ seats as detailed in Chrysler owner's manual.

Tire Changing and Jacking

- ⚠ WARNING** Follow all jacking and tire changing instructions and safety precautions in the Chrysler-supplied owner's manual when changing a flat tire or raising the vehicle.

All Precautions

- ⚠ WARNING** Failure to follow these safety precautions may result in serious bodily injury and/or property damage.

Braun Corporation After-Market Control Systems Policy

The Braun Corporation manufactures dedicated control systems for its products (i.e., wheelchair lifts, door operators, ramp systems, kneeling systems). 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 after-market control systems with Braun products. **To do so may result in serious bodily injury and/or property damage.** For information about the proper control system for a specific Braun product, contact The Braun Corporation at 1-800-THE LIFT.

Pre-Operation Notes and Details

WARNING

Read and become familiar with all safety precautions, pre-operation notes and details, operating instructions and manual operating instructions prior to operation. Contact The Braun Corporation immediately if this information is not fully understood. Failure to do so may result in serious bodily injury and/or property damage.

The Entervan II provides fully automatic operation of the electromechanical “kneeling” system, the passenger side slide door and the ramp. Refer to Entervan II Features and Options (pages 2 and 3), and referenced sections in this manual for identification and explanation of Entervan features and functions.

Terminology: The term “KNEEL” appearing within this manual and on operating instructions decals is a reference to the lowering and raising motion of the Entervan electromechanical rear

suspension. The term “OPEN” indicates the opening motion of the power slide door, and “CLOSE” indicates the closing motion of the power slide door. The term “UNFOLD” indicates the lowering motion of the ramp to the deployed position. The term “FOLD” indicates the raising motion of the ramp to the vertical (stowed) position.



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

Control Switches

Color Coding: Entervan II interior-mounted control switches are color-coded and function-labeled to correspond to the color coding and switch-function labels that appear on the Power Operation Instructions decal (posted on the interior wall panel above the power door operator).

The color of the symbol corresponds to the color of the switch to be used. Color coding applies to the interior-mounted control switches **only**.

Triangular-shaped color-coded symbols appear on the Power Operation Instructions decal. The direction of the symbol corresponds with the direction the switch should be activated (pressed) to produce the intended

function.  = Press switch UP, and  = press switch DOWN.

Although the remote control transmitter OPEN and CLOSE switches are **not color-coded**, the functions activated by remote control transmitter OPEN and CLOSE switches are identical to the functions activated by the interior-mounted OPEN/CLOSE switches.

The outside key entry activates the same functions as the interior-mounted yellow OPEN/CLOSE switches and the remote control transmitter OPEN and CLOSE switches.

Control switch details are provided in this section.

WARNING

Do not activate control switches when anyone is near the area in which door operates, ramp operates or vehicle kneels. Failure to follow this rule may result in serious bodily injury and/or property damage.

Pre-Operation Notes and Details

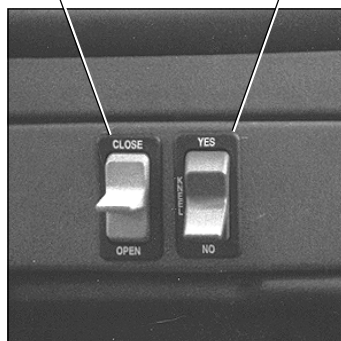
Control Switches (continued)

Dash-Mounted Control Switches

Yellow OPEN/CLOSE Switch

Press the yellow OPEN/CLOSE switch to the CLOSE (up) position to fold (raise) the ramp, close the automatic door and activate the "kneel" system*.

Press the yellow OPEN/CLOSE switch to the OPEN (down) position to open the automatic door, unfold (lower) the ramp and activate the "kneel" system*.



See page 11 for overall view of dash-mounted control switches.

Red KNEEL Switch:

Press the red KNEEL switch to the YES (up) position to turn the "kneel" system* on.

Press the red KNEEL switch to the NO (down) position to turn the "kneel" system* off.

Rear Wall-Mounted Control Switches



Control Switches
(Detail Photo Below)

* The KNEEL switch turns the "kneeling" system on and off only. Pressing the OPEN/CLOSE switch automatically activates the "kneeling" feature to lower the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position. Pressing the CLOSE switch activates the "kneeling" feature to raise the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.

MANUAL/AUTO Override

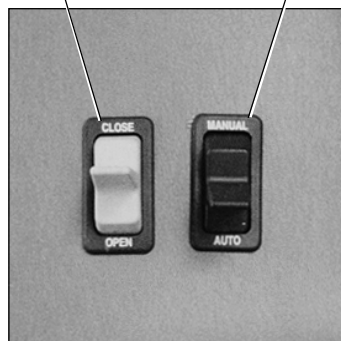
Switch: This switch **must** be pressed to the AUTO position **before** automatic (power) ramp functions can be activated. Pressing this switch to the MANUAL position allows the power ramp to be manually operated in event of power or equipment failure. This switch **must** be in the MANUAL position when performing Manual Ramp Operating Procedures.

OPEN/CLOSE Switch: This switch is identical to the dash-mounted OPEN/CLOSE switch in appearance and operation.

Yellow OPEN/CLOSE Switch

Press the yellow OPEN/CLOSE switch to the CLOSE (up) position to fold (raise) the ramp, close the automatic door and activate the "kneel" system*.

Press the yellow OPEN/CLOSE switch to the OPEN (down) position to open the automatic door, unfold (lower) the ramp and activate the "kneel" system*.



Black MANUAL/AUTO Switch

Press the black MANUAL/AUTO switch to the MANUAL (up) position before performing Manual Ramp Operating Procedures.

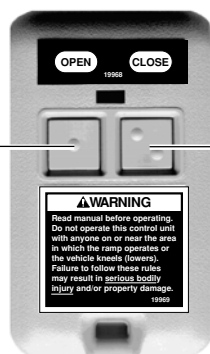
Press the black MANUAL/AUTO switch to the AUTO (down) position before performing automatic Power Operating Procedures.

Pre-Operation Notes and Details

Mini Remote Control Transmitter Switches

The remote control OPEN and CLOSE switches activate the same functions as the Entervan-mounted yellow OPEN/CLOSE switches. Two mini remote control transmitters (shown here) are supplied with all Entervans.

Press the OPEN switch to open the automatic door and unfold (lower) the ramp. **Note:** Pressing the OPEN switch also activates the “kneeling” feature to lower the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.



Do not interface after-market control systems** with a Braun Entervan.

Note: A full size (larger) remote control transmitter (shown below) is available as an **option**. Operation procedures for both transmitters are identical. The remote control system has an operating range of 35 feet.

Press the CLOSE switch to fold (raise) the ramp and close the automatic door. **Note:** Pressing the CLOSE switch also activates the “kneeling” feature to raise the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.

** Braun Corporation After-Market Control Systems Policy:

The Braun Corporation manufactures dedicated control systems for its products (i.e., wheelchair lifts, door operators, ramp systems, kneeling systems). 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 after-market control systems with Braun products. **To do so may**

result in serious bodily injury and/or property damage.

For information about the proper control system for a specific Braun product, contact The Braun Corporation at 1-800-THE LIFT.

Full Size Remote Control Transmitter (Option) Switches

The remote control OPEN and CLOSE switches activate the same functions as the Entervan-mounted yellow OPEN/CLOSE switches. The full size remote control transmitter (shown here) is available as an **option only**.

Press the OPEN switch to open the automatic door and unfold (lower) the ramp. **Note:** Pressing the OPEN switch also activates the “kneeling” feature to lower the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.



Do not interface after-market control systems** with a Braun Entervan.

Note: Two mini remote control transmitters (shown above) are supplied with all Entervans. Operation procedures for both transmitters are identical. The remote control system has an operating range of 35 feet.

Press the CLOSE switch to fold (raise) the ramp and close the automatic door. **Note:** Pressing the CLOSE switch also activates the “kneeling” feature to raise the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.

Pre-Operation Notes and Details

Control Switches (continued)

Passenger Door Outside Key Entry

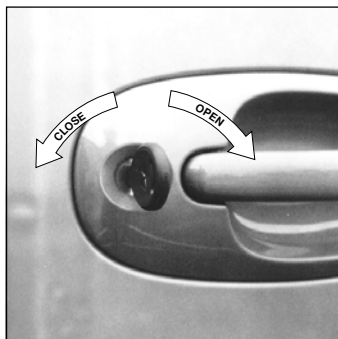
An outside key entry is incorporated in the passenger side front door lock. The outside key entry activates the same functions as the interior-mounted yellow OPEN/CLOSE switches and the remote control transmitter OPEN and CLOSE switches. The vehicle OEM door key activates the outside key entry system as well as operating the passenger door lock. See your Chrysler owner's manual for details regarding door locks.

Delay Feature: When activating the OPEN functions using the outside key entry, the key unlocks the door and then there is a **two second delay before** the Enter-van power functions are activated. This delay feature **only** occurs when activating the outside key entry and **only** occurs during the OPEN function.



CLOSE: Insert the key and turn it counterclockwise (toward rear of vehicle) to fold (raise) the ramp and close the automatic door.

Note: Turning the key counterclockwise also activates the “kneeling” feature to raise the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.



OPEN: Insert the key and turn it clockwise (toward front of vehicle) to open the automatic door and unfold (lower) the ramp. **Note:** Turning the key clockwise also activates the “kneeling” feature to lower the vehicle if the red dash-mounted KNEEL switch is in the YES (up) position.

Kneel Actuator MANUAL/AUTO Switch

The **Kneel Actuator MANUAL/AUTO switch** is mounted in the Kneel Actuator Manual Release assembly. The Kneel Actuator Manual Release assembly is located behind the driver's side slide door. This switch **must** be

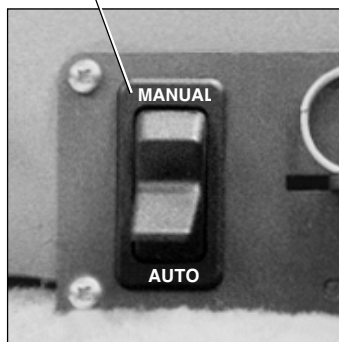
in the AUTO position before the electromechanical power kneeling system can be activated. The MANUAL/AUTO switch **must** be pressed to the MANUAL position in order to manually release the kneel actuator.

Do not press this switch to the MANUAL position unless you have experienced kneel actuator power or equipment failure. See pages 23 and 24 for further details.

Kneel Actuator MANUAL/AUTO Switch

Press the black MANUAL/AUTO switch to the MANUAL (up) position before performing Kneel Actuator Manual Release Procedures. ▲

Press the black MANUAL/AUTO switch to the AUTO (down) position before performing automatic Power Kneeling Operations. ▼



Kneel Actuator Manual Release Assembly



Pre-Operation Notes and Details

Whenever parking your Entervan and before utilizing any Entervan features, always engage the vehicle transmission in Park “P” and engage the vehicle parking brake.

Transmission: The vehicle transmission **must** be engaged in Park “P,” **before** operating the Entervan automatic features. Entervan power function control switches **cannot** be activated if the vehicle transmission is not in Park.

MANUAL/AUTO Override Switch: The MANUAL/AUTO

override switch **must** be pressed to the AUTO position **before** the automatic ramp can be activated. This switch is located on the passenger-side interior wall panel, above the power door operator as shown at right. See Control Switches on page 8 also.

Kneel Actuator MANUAL/AUTO Switch: The Kneel Actuator MANUAL/AUTO switch **must** be pressed to the AUTO position before the electro-mechanical “kneeling” system can

be activated. See photos and details on opposite page.



Kneeling Feature

“Kneeling” is the lowering and raising motion of the Entervan electromechanical rear suspension. The kneel feature lowers the rear of the vehicle. See the photos on page 2.

The Entervan operator has the option of using the kneel feature or not. Activating the kneel feature to lower the rear of the vehicle reduces the slope of the ramp when deployed.

⚠ WARNING

Keep clear of area in which the vehicle kneels (lowers). Failure to do so may result in serious bodily injury.

Do not activate the kneel system when anyone is near the underside of the vehicle. Kneel (lower) the Entervan on level surfaces only.

The red dash-mounted KNEEL switch turns the “kneeling” system on and off. This switch provides the option of kneeling the vehicle when operating the power door and power ramp. The optional “kneeling” feature can **only** be turned on and off by the dash-mounted red KNEEL switch. See Control Switches on page 8.

Press the red KNEEL switch to the YES position to turn the “kneel” system on. Press the red KNEEL switch to the NO position to turn the “kneel” system off. With the KNEEL switch in the YES position, the rear of the vehicle will automatically lower when either of the two interior-mounted yellow OPEN/CLOSE switches is pressed to the OPEN position for **two seconds or longer**.

Delay Feature: The OPEN switch **must be pressed for two seconds or longer** before the “kneel” system is activated. Once the “kneel” system is activated,



Red Kneel Switch

the rear of the Entervan will continue to lower regardless if one of the control switches is continued to be pressed.

Pressing the remote control OPEN switch or turning the passenger door outside key entry key clockwise (toward front of vehicle) activates the “kneel” function in the same manner.

Pre-Operation Notes and Details

Kneeling Feature (continued)

When the red KNEEL switch is in the YES position, the vehicle will automatically raise when either of the two Entervan-mounted yellow OPEN/CLOSE switches are pressed to the CLOSE position. Pressing the remote control CLOSE switch or turning the passenger door outside key entry key counterclockwise (toward rear of vehicle) activates the “kneel” function to raise the rear of the Entervan in the same manner.

Note: If the vehicle is in the kneeled position and the red KNEEL switch is pressed to the NO position, the rear of the vehicle **will raise automatically**. **Do not press the KNEEL switch to the NO position when a wheelchair passenger is on the ramp!**

Out-of-Park Kneeling Override: If the Entervan is in the kneeled position and the vehicle transmission is disengaged from Park “P,” the rear of the vehicle **will automatically raise**. This feature eliminates the possibility of unintentionally driving the Entervan with the rear of the vehicle in the lowered position. When the transmission is disengaged from Park, the kneel actuator is electrically activated. When activated, the actuator shaft extends to raise the rear of the vehicle to the normal position. **Do not disengage the transmission from Park when a**

wheelchair passenger is on the ramp!

Mechanical Kneeling Override: In the event that 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. Further details and Kneel Actuator Manual Release Instructions are provided on pages 23 and 24.

Do not continue to drive the Entervan with the rear of the vehicle in the lowered position. Attempting to drive the Entervan with the rear of the vehicle in the lowered position will result in an extremely rough and unstable ride, and

could possibly result in injury and/or vehicle damage. The vehicle would ride as if it did not have any rear suspension. **In the event of a kneel system failure, have the kneel system repaired immediately.**

WARNING

Driving an Entervan in the kneeled (low-ered) position may result in serious bodily injury and/or property damage.

Automatic Power Door

WARNING

Keep clear of area in which the door operates. Failure to do so may result in serious bodily injury.

Keep clear of area in which the automatic power door operates. Be certain no person or obstruction is within the path of the door when opening or closing the door.

Keep children clear of the door and ramp paths (operating areas) during door and ramp operation. Keep body parts and obstructions clear of area in which door operates. Keep clear of all power door moving parts. Do not place any body part or obstruction in the path of the automatic door, the door gear rack or other power door moving parts. Do not attempt to grip or hold the door or door gear rack.

The automatic door can be activated by either interior-mounted yellow OPEN/CLOSE switch, the remote control switches or the passenger door outside key entry. See pages 7-9 for further details regarding these Entervan controls.

You **must** continue to press the OPEN switch or turn the outside key entry key clockwise throughout the entire door opening function (**until the door stops - opens fully**). You **must** continue to press the CLOSE switch or turn the outside key entry key counterclockwise throughout the entire door closing function to close the door **fully**.

Manual Operation: If you experience power or equipment failure, refer to the Door and Ramp Manual Operating Instructions on pages 21 and 22.

Pre-Operation Notes and Details

Automatic Power Ramp

⚠ WARNING

Provide adequate clearance outside of vehicle to accommodate ramp. Failure to do so may result in serious bodily injury and/or property damage.

Be certain there is adequate clearance outside the Entervan before unfolding the automatic ramp. Approximately 56 inches clearance must be provided to accommodate the ramp.



⚠ WARNING

Keep clear of area in which ramp operates.

52205

Keep clear of area in which the automatic power ramp operates. Be certain no person or obstruction is within the path of the ramp when unfolding or folding the ramp.

Keep all passengers and bystanders clear of the area in which the ramp unfolds and folds (inside and outside the vehicle). **Keep children clear of the ramp path (operating area) during ramp operation.** When inside the vehicle, all non-wheelchair passengers should be seated and restrained using the Chrysler-equipped (OEM) seat belts as detailed

in your Chrysler-supplied owner's manual. Wheelchair passengers **must** be positioned and restrained as detailed in the Wheelchair and Occupant Restraint instructions on pages 25-29. Properly seated and restrained passengers will be clear of ramp movement.

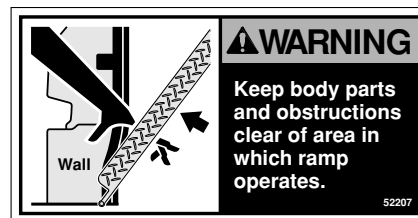
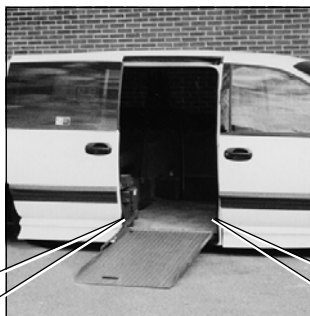
Keep body parts and obstructions clear of the area in which the ramp operates. Keep clear of all power ramp moving parts. Do not attempt to grip or hold the ramp or ramp folding mechanism (fold arm and bearing assembly).



⚠ WARNING

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

52206



⚠ WARNING

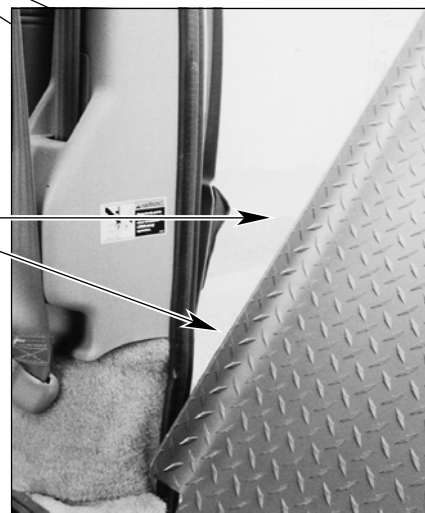
Keep body parts and obstructions clear of area in which ramp operates.

52207

Do not grip or hold ramp fold arm!



Keep clear of the area in which the ramp folds into the door opening.



Pre-Operation Notes and Details

Automatic Power Ramp (continued)

The automatic ramp can be activated by either interior-mounted yellow OPEN/CLOSE switch, the remote control switches or the outside key entry. See pages 7-10 for further details regarding these Entervan controls.

Delay Feature: After the door is fully open, a minimum two second delay will occur **before** the ramp starts to unfold. This delay feature is required in order to utilize the **Passive (Non-Wheelchair) Access** feature. The delay allows the operator adequate time to release the OPEN switch once the door is open - preventing the automatic ramp unfolding operation from starting. The ramp assembly can then be manually rotated out of the vehicle allowing passive (non-wheelchair) access to the door opening if so desired. See page 19 for **Passive (Non-Wheelchair) Access** details.

Ramp Unfolding Notes: When unfolding the ramp, the ramp motor stops running when the ramp reaches the **nearly**-horizontal position (**approximately** 6" - 8" above ground level). The ramp

continues to **slowly lower** the remaining distance by the force of gravity.

When the ramp has unfolded beyond the vertical (90°) position and you stop activating the DOWN function, the ramp may continue to unfold **very slowly**. This gravity-activated unfolding of the ramp may not be visibly detected until an approximate 75° angle is reached.

Ramp Folding Note: You **must** continue to press the CLOSE switch or turn the outside key entry key counterclockwise through the entire ramp folding function to fold the ramp **fully** (stowed position). If the ramp has not folded **fully** (beyond vertical - 90° position) and you stop activating the CLOSE function, the ramp may unfold (deploy) by the force of gravity as explained above.

Manual Operation: If you experience power or equipment failure, refer to the **Door and Ramp Manual Operating Instructions** on pages 21 and 22.

Driver Side Slide Door



Close the driver-side slide door before loading and unloading wheelchair passengers. Operate this slide door as detailed in your Chrysler-supplied owner's manual. To provide a safer environment for small children and wheelchair passengers, activate the Child Protection Door Lock as outlined in your Chrysler-supplied manual. When the child lock system is engaged, the door can only be opened from the outside. Always make sure the sliding door is fully latched any time the vehicle is in motion.



Close the driver-side slide door before loading and unloading wheelchair passengers!

Pre-Operation Notes and Details

Ramp Safety

Wheelchair passengers and attendants (when applicable), must use basic common sense and good judgement regarding ramp safety. The Braun Corporation recognizes that 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 their Entervan. Consequently, the procedures for safe operation outlined in this manual are general in nature.

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 (dealer) to **ensure your ability to do so safely.**

Never board an Entervan ramp if you or your attendant are intoxicated. The wheelchair must 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.

⚠ WARNING

Position and secure (buckle, engage, fasten, etc.) 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.

Wheelchair-Equipped Occupant Seat Belts

The Braun Corporation recommends wheelchair passengers 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 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.

Wheelchair attendants should be instructed on any special needs and/or procedures required for safe transport of wheelchair passengers.

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



Pre-Operation Notes and Details

Stabilizing Wheelchairs (continued)

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**.

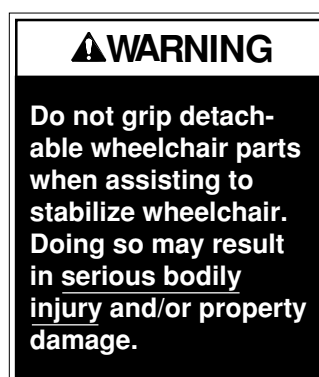
Wheelchair passengers who intend to enter and exit their Entervan without the assistance of an attendant must determine the safest and most practical method and orientation of entering and exiting the Entervan based on the physical characteristics of their personal wheelchair and his or her physical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

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

Wheelchair Attendants: When assisting a wheelchair occupant, remember to use good body mechanics. Keep your back straight and bend your knees. 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 hand holds 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/**

Track System when riding in the Entervan. See pages 25-29 for **Wheelchair and Occupant Restraint** details.

Operation Procedure Review

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

Using your own wheelchair and personal attendant (if applicable), operate the Entervan through all

functions and enter and exit the vehicle with your dealer on hand to ensure the Entervan is right for you as the end user, (applicable for your use based on your physical abilities and the physical characteristics of your personal wheelchair). Practice using the wheelchair and occupant belt/track system with your sales representative on hand. Become familiar with the proper operation of all Entervan features.

Pre-Operation Notes and Details

Preventive Maintenance

Preventive maintenance consisting of **careful** inspections of your Entervan systems should be a part of your routine. Simple inspections can detect potential kneel, door or ramp malfunctions. Regular preventive maintenance evaluations will reduce potential operation down time and increase the service life of the Entervan, as well as enhancing safety. During routine inspections, operate all Entervan systems and note the following:

- Do the control switches function properly?
- Does the kneel feature function properly?
- Does the automatic door function properly?
- Does the automatic ramp unfold and fold properly?
- Is the power source adequate or weak?

Inspect the wheelchair and occupant restraint belts, buckles and hardware. If there is any sign of damage, wear, abnormal condition or improper operation, **discontinue Entervan use immediately**. Contact your dealer or call The Braun Corporation at

1-800-THE LIFT. One of our national service representatives will direct you to an authorized service repairman who will inspect your Entervan.

Preventive maintenance visual inspections **do not** take the place of the procedures specified in the Maintenance/Lubrication Schedule. The procedures outlined in the detailed Maintenance/Lubrication Schedule provided in this manual **must be performed at the recommended scheduled intervals**.

Exposure to harsh weather elements or environmental conditions may reduce the service life of Entervan systems. Road salt used to melt snow and ice in northern climates as well as salt water climates tend to corrode components more rapidly. Extreme dusty or sandy conditions can cause contamination and reduce the effectiveness of lubrication. If your Entervan is exposed to these types of harsh conditions, have your maintenance and lubrication procedures performed often.

Door Locks and Anti-Theft (Alarm) System

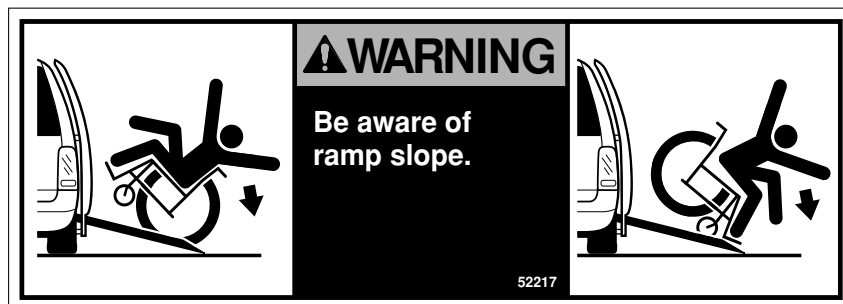
Opening the power slide door using either interior-mounted yellow OPEN/CLOSE switch or using the remote control OPEN switch **does not** disarm the Chrysler factory-equipped (OEM) Anti-Theft System (if equipped). If you open the power slide door using one of these Entervan controls before unlocking a vehicle door, **the alarm system will be triggered**.

Always disarm the alarm system before opening

the power slide door. You can disarm the alarm system by unlocking the driver door, front passenger door or liftgate with the door key. You can also disarm the system by pressing the OEM remote keyless entry transmitter UNLOCK button.

See your Chrysler-supplied (OEM) owner's manual for further details regarding the Remote Keyless Entry System (if equipped) and the Anti-Theft System (if equipped).

Entervan II Power Operating Instructions



The instructions provided below outline the step-by-step procedures required to operate the automatic kneel, door and ramp systems. These instructions also appear on Power Operation instructions decal #52211 (posted on the interior wall panel above the power ramp motor assembly).

Review the **Pre-Operation Notes and Details** section for detailed information regarding all

Entervan control switches, functions and operating procedures.

Manual Instructions:

Refer to the Manual Operating Instructions on pages 21-24 if you experience power or equipment failure.

⚠ WARNING

Read and become familiar with all safety precautions, pre-operation notes and details, operating instructions and manual operating instructions before operation. Failure to do so may result in **serious bodily injury and/or property damage.**

Kneeling Delay: The red dash-mounted KNEEL switch turns the “kneeling” system on and off. The rear of the vehicle will automatically “kneel” (lower) when one of the OPEN controls is activated for **two seconds or longer**. The OPEN control **must be activated for two seconds or longer** before the “kneel” system lower function is activated. See pages 11 and 12 for further details.

Ramp Delay: After the door is fully open, a **minimum two second delay** will occur **before** the ramp starts to unfold. See **Passive (Non-Wheelchair) Access** on the following page for further details.

Key Entry Delay: When activating OPEN functions using the outside key entry, the key unlocks the door and then there is a **two second delay before** the Entervan power functions are activated.

Note: Engage the vehicle transmission in “Park,” engage the vehicle parking brake and press the MANUAL/AUTO override switch to the AUTO position **before** operation.

FOR POWER KNEELING:

Press the red KNEEL switch to the YES (up) position. **Note:** See **Kneeling Delay** above.

TO OPEN DOOR AND UNFOLD RAMP:

Press the OPEN switch or turn the Passenger Door Outside Key Entry key clockwise until the door opens **fully** and the ramp unfolds **fully**. Release switch or key. **Note:** See **Key Entry Delay** above.

Note: After the door is fully open, a minimum two second delay will occur before the ramp starts to unfold. **Note:** See **Ramp Delay** above.

TO FOLD RAMP AND CLOSE DOOR:

Press the CLOSE switch or turn the Outside Key Entry key counterclockwise until the ramp folds fully and the door closes **fully**.

Note: You **must continue** to press the CLOSE switch or turn the Outside Key Entry key counterclockwise through the entire ramp folding and door closing functions.

TO TURN POWER KNEELING OFF:

Press the red KNEEL switch to the NO (down) position.

Passive (Non-Wheelchair) Access Instructions

When in the stowed (folded) position, the ramp assembly can be manually rotated out of the slide door opening. This feature allows passive (non-wheelchair) access to the passenger side slide door opening when desired. The ramp assembly can also be manually removed (details on following page).

The ramp assembly pivots (rotates) on two axles (top and bottom) when the ramp latch is disengaged. The front of the ramp is secured to the vehicle floor with a cable activated spring-loaded latch.

The ramp latch is located at floor level at the front of the ramp (see Photo B). The latch is activated by a release cable. The release

cable is routed upward through the front slide door post interior panel. The cable is equipped with a knob for use as a latch release handle (see Photo A). The knob is located adjacent to the front top corner of the ramp (when ramp is in stowed position).

Open the door fully before manually rotating ramp. Release the OPEN switch as soon the door is fully open.

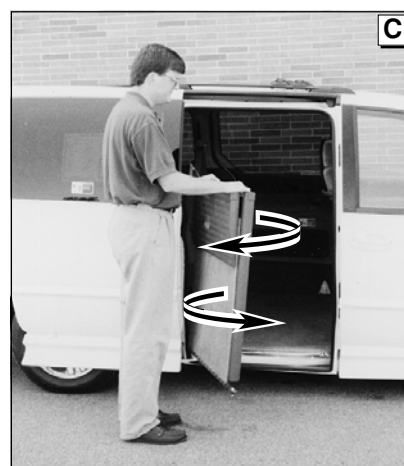
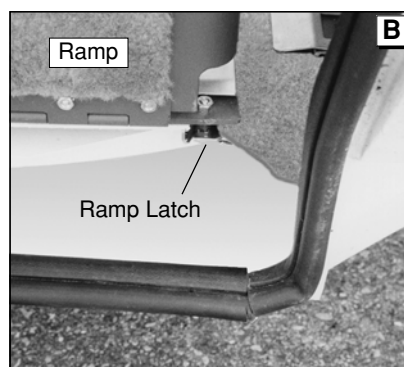
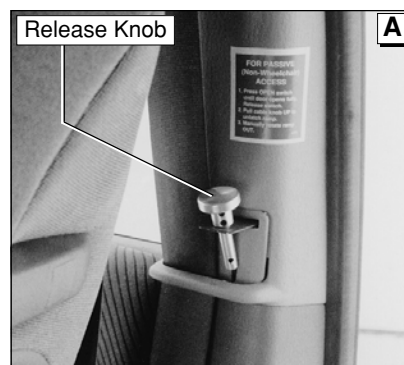
Delay Feature: After the door is fully open, a minimum two second delay will occur **before** the ramp starts to unfold. The delay allows the operator adequate time to release the OPEN switch (or outside key entry), once the door is open - preventing the automatic ramp from unfolding.

⚠CAUTION

- Open door fully before rotating ramp.
 - Do not fold or unfold ramp when ramp latch is disengaged or ramp is in passive position (rotated out of vehicle).
- Failure to follow these rules may result in personal injury and/or property damage.**

Do not attempt to fold or unfold the ramp when the latch is disengaged or the ramp is in the passive position (rotated out of vehicle).

The instructions provided below outline the step-by-step procedures required to manually rotate the ramp. These instructions also appear on Passive (Non-Wheelchair) Access Instructions decal #18515 (posted on the front slide door post interior wall panel adjacent to the release knob).



For Passive (Non-Wheelchair) Access:

1. Press the OPEN switch or turn the Outside Key Entry key clockwise until the door opens **fully**. Release switch or key (see **Delay Feature** above).
2. Pull cable knob UP fully to unlatch ramp. See Photo A.
3. Manually rotate ramp OUT. See Photo C. Secure and support the ramp during passenger access. **Caution: Do not force ramp open. Do not attempt to activate the power ramp when in the passive position (rotated out of vehicle).**

To Store Ramp and Close Door:

1. Manually rotate ramp IN fully to latch ramp.
2. Press the CLOSE switch or turn the Outside Key Entry key counterclockwise until the door closes **fully**.

Ramp Removal Instructions

When in the stowed (folded) position, the ramp and motor assembly can be manually removed from the vehicle. **Open the door fully before manually removing the ramp. Release the OPEN switch** (or outside key entry), **as soon as the door is fully open.**

The front of the ramp is secured to the vehicle floor with the cable activated Passive Access latch. The latch must be disengaged in order to remove the ramp. See previous page for Passive Access details and photos.

The rear of the ramp and motor assembly is secured to the rear door post with a hairpin cotter. See Photo F. The hairpin cotter must be removed in order to remove the ramp.

⚠CAUTION

Disconnect ramp motor wiring harness before removing ramp. Failure to do so will result in damage.

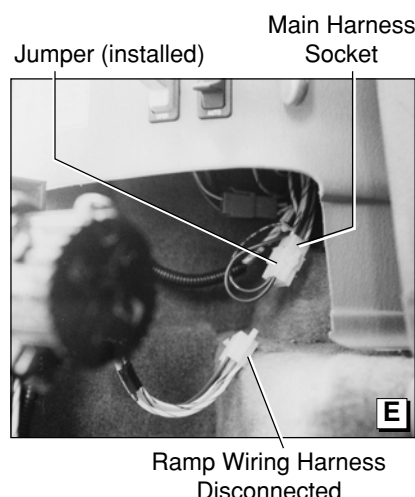
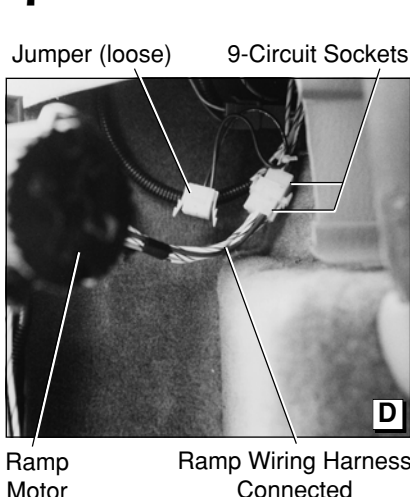
Disconnect the ramp motor harness before removing the ramp. Failure to do so will result in damage. The power ramp motor electrical wiring harness is located within the interior wall panel by the ramp motor as shown in Photos D and E. Depress the locking tabs to disconnect the 9-circuit sockets.

Note: A jumper wire assembly is attached to the main wiring harness. Install the jumper wire 9-circuit socket in the main harness 9-circuit socket that the ramp motor harness was connected to. See Photos D and E. Connecting the jumper wire provides power to the door operator when the ramp is removed.

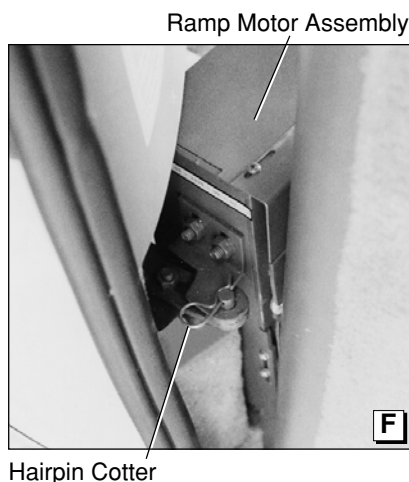
The instructions provided below outline the step-by-step procedures required to manually remove the ramp.

Ramp Removal Instructions:

1. Press the OPEN switch or turn the Outside Key Entry key clockwise until the door opens **fully**. Release switch or key.
2. Disconnect the ramp electrical wiring harness. See Photo D. **Note:** It may be necessary to **partially** rotate the ramp to access the wiring harness and jumper wire.
3. Connect the jumper wire to the main electrical harness. See Photo E.



Note: Ramp rotated for clear view of wiring harness and jumper wire in Photos D and E.



Ramp Removal Instructions

Ramp Removal Instructions (continued):

3. Remove the hairpin cotter from the top ramp pivot axle. See Photo F on previous page.

Note: Keep the hairpin cotter when removing the ramp. The hairpin cotter **must** be repositioned when reinstalling the ramp assembly.

4. Pull release knob UP fully to unlatch ramp. See Photo A on page 19.
5. Grip both sides of the ramp assembly and lift up. Manually remove ramp. See Photo G on previous page. Use good body mechanics when

removing the ramp. Keep your back straight and bend your knees when lifting the ramp.

Note: Keep the flat washer positioned on the floor rotation axle when removing the ramp. The washer **must** be repositioned when reinstalling the ramp assembly. See Photo G.

Reverse procedures to install ramp.

Note: Be certain the flat washer and hairpin cotter are repositioned when reinstalling the ramp assembly.

Door and Ramp Manual Operating Instructions

⚠ WARNING

- Clear ramp path before performing manual unfold procedures. Ramp will free-fall.
- Be certain door is fully open.
- Keep clear of moving parts. Failure to follow these rules may result in serious bodily injury and/or property damage.

If you experience power or equipment failure, refer to the step-by-step instructions on the following page to manually operate the slide door and ramp. Manual operation instructions also appear on Manual Operation instructions decal #52212 (posted on the power ramp motor housing).

Note: It is recommended to have an assistant aid in performing manual operating procedures. Many wheelchair passengers **will not be able** to perform manual operating procedures. An assistant **may** be required.

Use good body mechanics when



performing manual ramp operating procedures. Keep your back straight and bend your knees when folding (lifting) the ramp.

Operate door and/or ramp manually ONLY if either cannot be operated electrically.

Notes: The vehicle transmission **must** be engaged in Park "P" and the parking brake **must** be engaged **before performing all manual operation procedures.**

The MANUAL/AUTO switch **must** be in the MANUAL position **before performing manual ramp operation procedures.**

A red manual door release ▶ handle is located rear of the power ramp as shown. In the event you experience power or equipment failure, the slide door can be opened manually. Pull red manual door release handle UP fully to release (disengage) the door operator. Push the release handle DOWN fully to re-engage the door operator.



MANUAL/AUTO Switch

Release Handle

Door and Ramp Manual Operating Instructions

⚠ WARNING

- Clear ramp path before performing manual unfold procedures. Ramp will free-fall.
 - Be certain door is fully open.
 - Keep clear of moving parts.
- Failure to follow these rules may result in **serious bodily injury and/or property damage.**

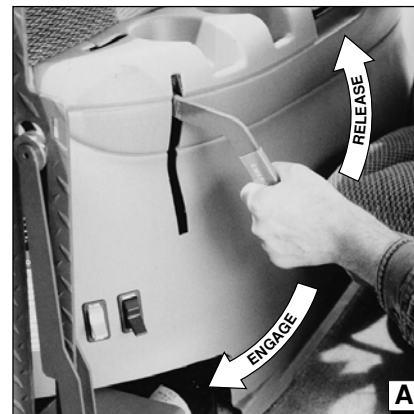
Read page 21 before proceeding!

Note: Engage vehicle transmission in Park, engage vehicle parking brake and press MANUAL/AUTO switch to the MANUAL position before performing manual ramp operation procedures.

TO OPEN DOOR

(To Disengage Door Operator):

1. Pull red manual door release handle UP fully. See Photo A.
2. Manually open door **fully**.
3. Push red manual door release handle DOWN **fully** to secure door. See Photo A. **Note:** It may be necessary to push the door to the rear while simultaneously securing the door with the handle.



TO UNFOLD RAMP:

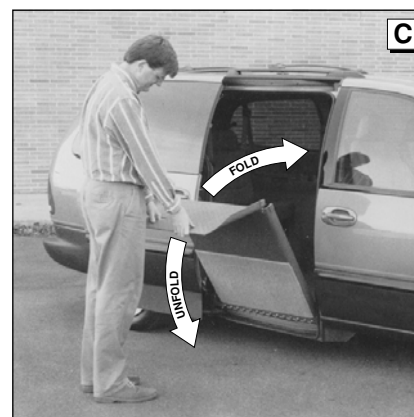
1. Clear the ramp path! **Note:** The ramp path must be clear. The ramp will free-fall when pushed out. An assistant should **carefully** unfold and lower the ramp to the ground from outside the vehicle if possible (Photo C).
2. Push top of ramp out (if an assistant is not available **only**). See Photo B.



Push ramp out if an assistant is not available **ONLY!**

TO FOLD RAMP:

Carefully lift and fold the ramp fully (to stowed position). See Photo C. **Note:** Remember to use good body mechanics. Assistants should keep their back straight and bend knees when lifting. Lift from the outboard end of the ramp. **Keep body parts and obstructions clear of the area in which the ramp operates.**



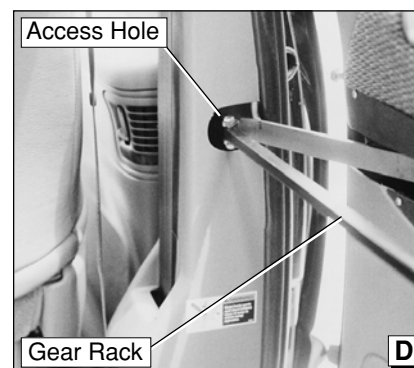
TO CLOSE DOOR

(To Re-engage Door Operator):

1. Pull red manual door release handle UP **fully**. See Photo A.
2. Carefully manually close door **fully**. **Note:** Be certain the power door gear rack enters (aligns with) the access hole located in the door opening front door post when closing the door (Photo D).
3. Push red manual door release handle DOWN **fully** to secure door. See Photo A. **Note:** It may be necessary for an assistant to close the door tight from outside the vehicle while engaging the release handle.

Note: The MANUAL/AUTO switch **must** be pressed to the AUTO (down) position **before** performing electric procedures.

The power ramp cannot be activated unless the MANUAL/AUTO switch is in the AUTO (down) position.



Kneel Actuator Manual Release Instructions

Mechanical Kneeling Override: A manual release feature is built into the electric actuator-powered electromechanical kneel system. In the event that the Entervan is in the kneeled position and you experience power or equipment failure, the Kneel Actuator Manual Release feature allows the rear of the vehicle to raise to the normal position.

Manual Release Lever: A red-handled kneel actuator manual release lever protrudes out of the driver side interior wall panel rear of the sliding door. A detent pin is inserted in the release handle. Refer to the instructions provided on the following page and appearing on Kneel Actuator Manual Release Instructions decal #52215 to manually release (override) the kneel actuator.

⚠ WARNING

Driving an Entervan in the kneeled (lowered) position may result in serious bodily injury and/or property damage.

In the event that the Entervan is in the kneeled position and you experience power or equipment failure, **do not continue to drive the Entervan with the rear of the vehicle in the lowered position.**

Attempting to drive the Entervan with the rear of the vehicle in the lowered position will result in an extremely rough and unstable ride, and **could possibly result in injury and/or vehicle damage.** The vehicle would ride as if it did not have any rear suspension. **In the event of a kneel system failure, have the kneel system repaired immediately.** Contact your dealer or call 1-800-THE LIFT. One of our national service representatives will direct you to an authorized service repairman who will inspect your Entervan.

The kneeling system is powered by an electric actuator that compresses the rear suspension when the actuator is retracted. The electric brake built into the actuator is mechanically released when the red-handled kneel actuator manual release lever is pulled. A cable is attached to the release handle which mechanically releases the actuator brake. When the actuator brake is released, the suspension leaf springs override the actuator, resulting in the rear of the vehicle raising.

The kneel actuator MANUAL/AUTO switch must be pressed to the MANUAL (up) position in order to manually release the actuator. If the switch is not in the MANUAL (up) position, there will be too much physical resistance to accomplish the manual release.

⚠ CAUTION

Press kneel actuator MANUAL/AUTO switch to MANUAL (up) position before pulling the kneel actuator manual release lever. Failure to do so may result in property damage.

Do not attempt to manually release the kneel actuator if you have not experienced power or equipment failure. Damage to the manual release system could occur.

Note: Press the MANUAL/AUTO switch to AUTO (down) position **before performing electrical procedures.** The electric actuator-powered electro-mechanical Kneel system cannot be activated if the Kneel Actuator MANUAL/AUTO switch is not in the AUTO (down) position.

Use Kneel Actuator Manual Release ONLY if the vehicle will not raise electrically.

Kneel Actuator Black MANUAL/AUTO Switch

Press the black MANUAL/AUTO switch to the MANUAL (up) position before performing Kneel Actuator Manual Release Procedures. ▲

Press the black MANUAL/AUTO switch to the AUTO (down) position before performing Automatic Power Kneeling Operations. ▼

Kneel Actuator Manual Release
Instructions Decal #52215



Kneel Actuator Manual Release Instructions

In the event that the Entervan is in the kneeled position and you experience power or equipment failure, refer to the instructions provided below and on Kneel Actuator Manual Release Instructions decal #52215 to manually release (override) the kneel actuator (raise the rear of the vehicle to the normal position).

⚠CAUTION

Press kneel actuator **MANUAL/AUTO** switch to **MANUAL** (up) position before pulling the kneel actuator manual release lever. Failure to do so may result in property damage.

Do not attempt to manually release the kneel actuator if you have not experienced power or equipment failure. Damage to the manual release system could occur. See previous page for further details.

⚠WARNING

Driving an Entervan in the kneeled (lowered) position may result in serious bodily injury and/or property damage.

Kneel Actuator Manual Release Instructions

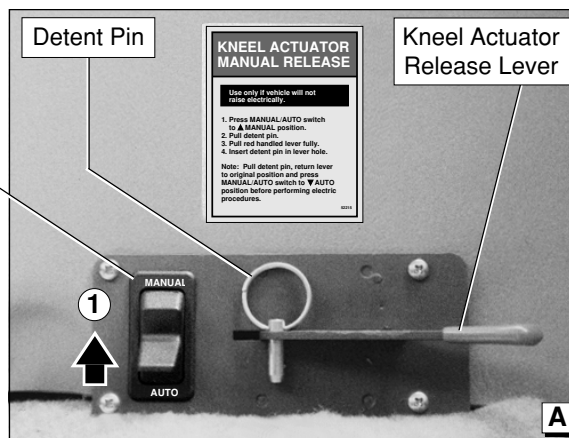
Use the Kneel Manual Release ONLY if the vehicle will not raise electrically.

Read page 23 before performing this procedure!

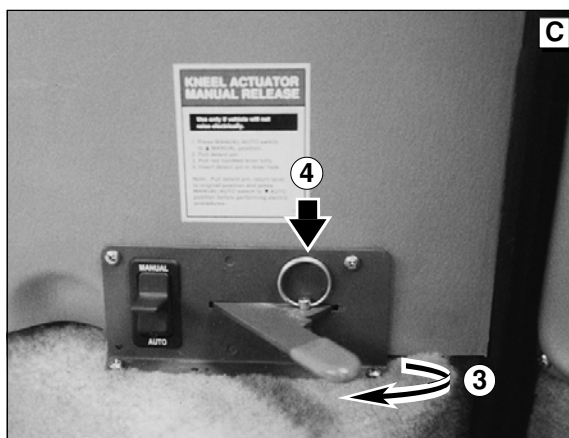
1. Press Kneel Actuator MANUAL/AUTO switch to **MANUAL** (up) position. See Photo A.
2. Pull to remove the ringed-detent pin inserted in the release lever. See Photo B.
3. Pull the red-handled lever **fully** rearward. See Photo C.
4. Insert the detent pin in the hole located in the lever. See Photo C.

Note: Pull detent pin, return lever to original position, insert detent pin and press the Kneel MANUAL/AUTO switch to **AUTO** (down) position **before performing electrical procedures.**

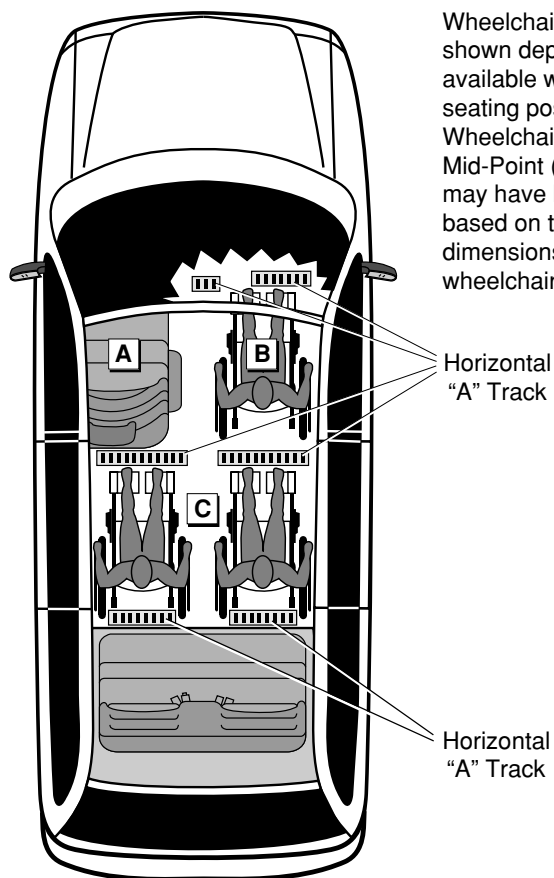
Kneel Actuator
MANUAL/AUTO
Switch



Kneel Actuator Release Lever in **Normal** Position.



Wheelchair and Occupant Restraint



Wheelchair passengers shown depict the available wheelchair seating positions. Wheelchair capacity at Mid-Point (Position C) may have limitations based on the physical dimensions of specific wheelchairs.

Horizontal
"A" Track

Horizontal
"A" Track

Note: See page 3 for photos of horizontal "A" track in the Front Lowered Floor Area (Position B) and the Mid-Point Lowered Floor Area (Position C).

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

Quick-Release 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 dealer. See pages 30 and 31 for seat removal and installation instructions.

Quick-Release Front Passenger Seat with Floor Track for Wheelchair and Occupant Securement: This seat (Position B) can be removed and the seat location can be utilized by a wheelchair occupant. The wheelchair occupant **must** be secured using the Forward-Facing Wheelchair and Occupant Belt/Track System provided (detailed below).

Floor Track for Wheelchair and Occupant Securement in Mid-Point Lowered Floor Area: The Mid-Point lowered floor area (Position C) can be utilized by wheelchair occupant(s). The wheelchair occupant **must** be secured using the Forward-Facing Wheelchair and Occupant Belt/Track System provided (detailed below).

One Forward-Facing Wheelchair and Occupant Belt/Track System (detailed below) is supplied with the Entervan II. This system is provided for the restraint of one wheelchair and occupant **only**.

☐ Forward-Facing Wheelchair and Occupant Belt/Track System

One Forward-Facing Wheelchair and Occupant Belt/Track System is supplied with the Entervan II. This system is provided for the restraint of one wheelchair and occupant **only**. **Note:** The Entervan can accommodate more than one wheelchair passenger (as shown above). Additional Forward-Facing Tie-Down Belt Kits **must** be purchased for restraint of each additional wheelchair passenger. **Note:** Wheelchair passengers shown depict the available seating positions. Wheelchair capacity at Mid-Point (Position C) may have limitations based on the physical dimensions of specific wheelchairs.

The Forward-Facing Wheelchair and Occupant Belt/Track System consists of:

1. "A" track mounted in the vehicle (three locations shown above) to be used in conjunction with the Forward-Facing Wheelchair and Occupant belts supplied.

2. Forward-Facing Wheelchair and Occupant Belt Kit #51140A — consisting of:

- Two adjustable over-center buckle belts for securement of the rear of the wheelchair.
- Two adjustable cam buckle belts for securement of the front of the wheelchair.
- One adjustable lap belt equipped with one "E" clip which installs in the vehicle-mounted "A" track and one female buckle receptacle. This lap belt is used in conjunction with the vehicle factory-equipped (OEM) upper torso shoulder harness.

Refer to the following guidelines, illustrations and the Belt Attachment Instructions on pages 26 through 29 for proper use of the Forward-Facing Wheelchair and Occupant Belt/Track System.

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.

⚠ WARNING

Read and become familiar with all Forward-Facing Wheelchair and Occupant Belt/Track System instructions as specified in this manual prior to installation or operation procedures. If the instructions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in property damage, serious bodily injury and/or death.

Note: This information is not all inclusive and will not cover every wheelchair installation. Each wheelchair must be carefully and individually fitted, reviewed and tested to provide maximum comfort and protection for the end user.

⚠ WARNING

When using wheelchair restraints not supplied with the Entervan, read and become familiar with all installation and operation instructions supplied with your particular wheelchair restraint system prior to installation or operation procedures. If the instructions are not fully understood, contact the manufacturer immediately. Failure to do so may result in property damage, serious bodily injury and/or death.

Forward-Facing Wheelchair and Occupant Belt/Track System Instructions

Refer to the following guidelines, illustrations and instructions for proper use of the Forward-Facing Wheelchair and Occupant Belt/Track System.

☐ **Wheelchair Passenger Securement**

One adjustable lap belt equipped with one "E" clip (keeper) which installs in the vehicle-mounted "A" track and one female buckle receptacle is provided to be used in conjunction with the existing vehicle OEM factory-equipped upper torso shoulder harness, for securement of the wheelchair occupant. Refer to the illustrations on page 27.

☐ **Lap Belt Positioning and Attachments**

Refer to the illustrations on page 27.

A. 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 is to be made at adjuster buckle behind the chair.

B. The lap belt **must** be used in conjunction with the vehicle factory-equipped upper torso shoulder harness. The latch plate side of belt **must** be opposite shoulder harness to properly extend shoulder harness across occupant. The lap belt end fitting (keeper) **must** be attached to vehicle-mounted "A" track as outlined in Wheelchair and Occupant Belt/Track Attachment

Instructions on page 28, (Steps 2 and 3).

C. Proper position of lap belt track attachments is with release keeper toward the rear away from wheelchair.

☐ **Wheelchair Securement**

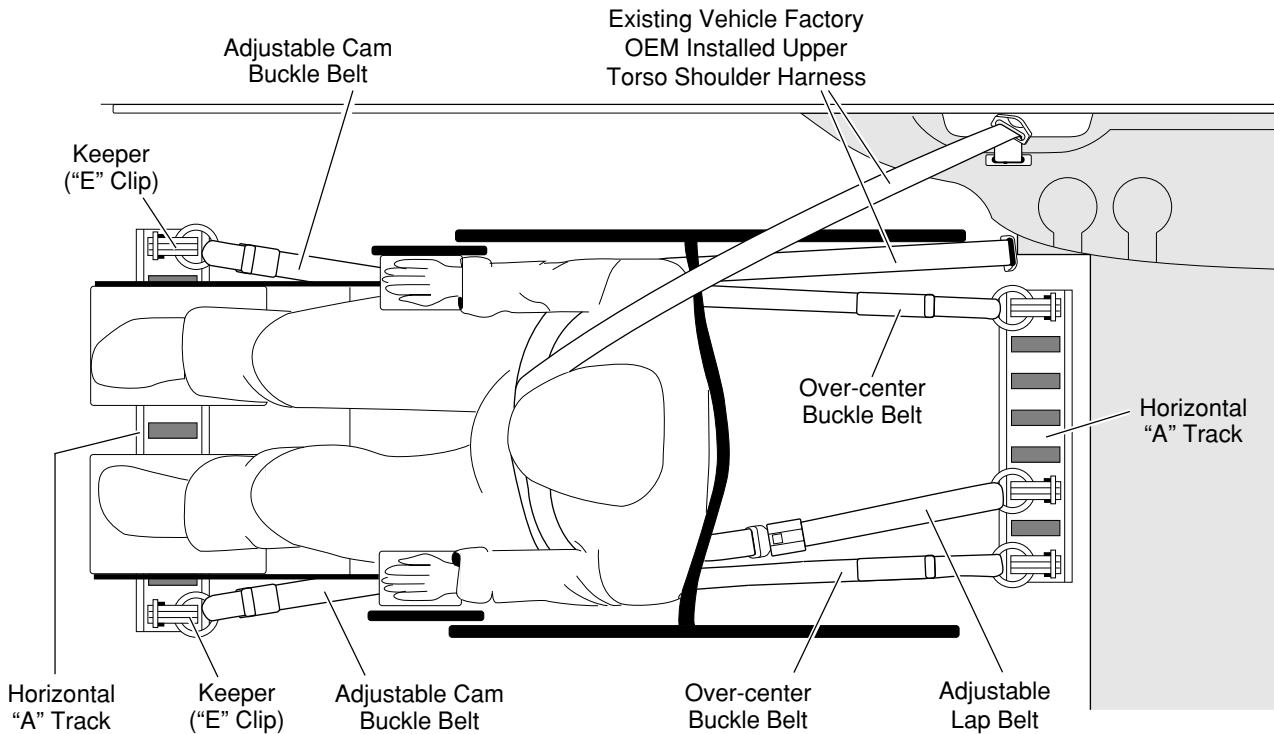
Two adjustable over-center buckle belts are provided for securement of the rear of the wheelchair. Two adjustable cam buckle belts are provided for securement of the front of the wheelchair. Refer to the illustrations on page 27 and the Belt Attachment Instructions on pages 28 and 29 .

☐ **Belt Maintenance**

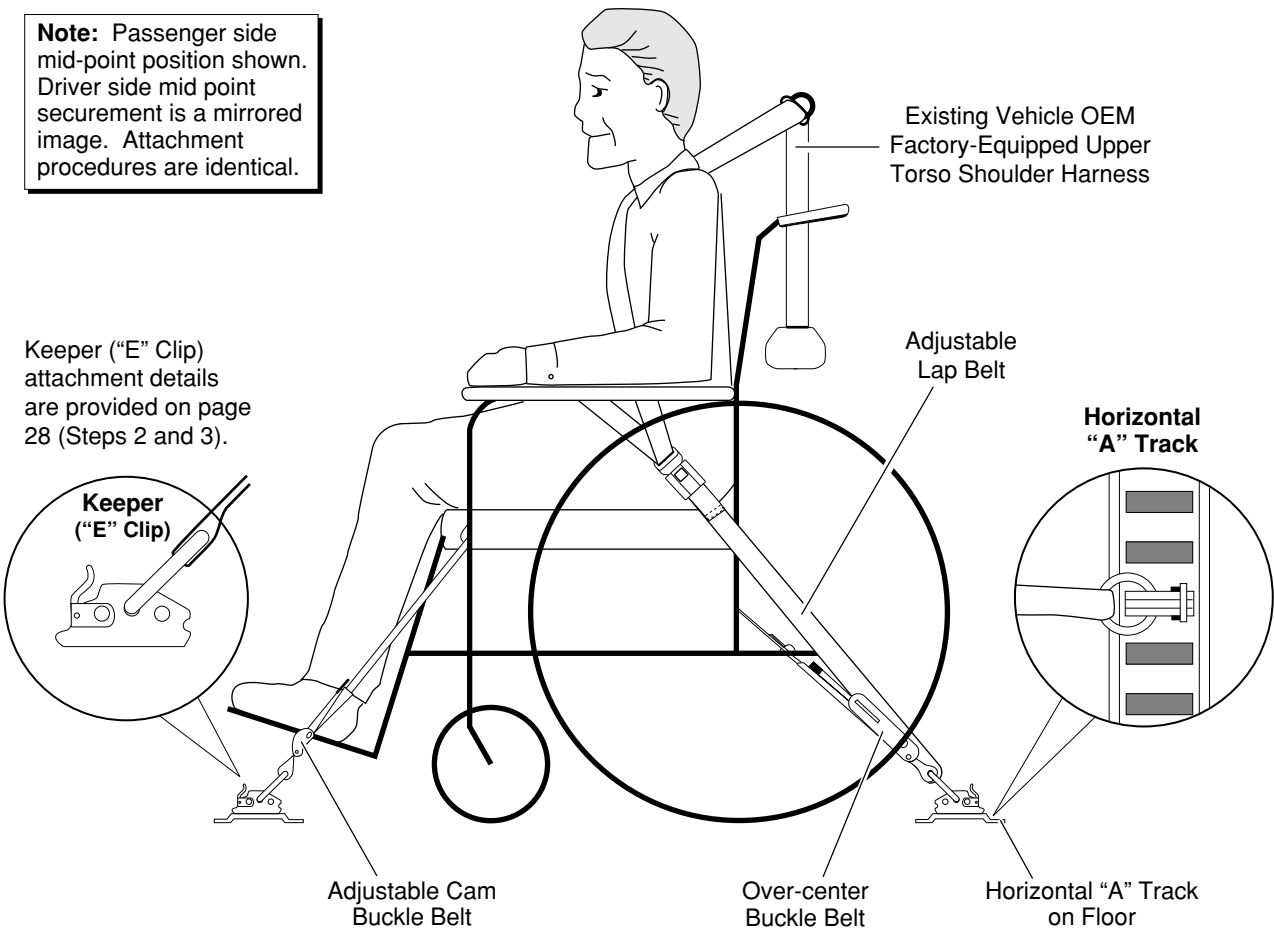
Inspect seat belt assemblies frequently during time in service to evaluate system for belt wear. Any defects such as belt cut, fraying or malfunctioning call for replacement of the entire system including belt, buckle and hardware.

Any seat belt system exposed to environmental conditions or climates such as dirt, mud, oil, sand, cement, and grease will severely reduce the life of the system. Extreme care must be taken in the inspection of a system exposed to these conditions. The replacement of the system must be a top priority to ensure efficient functioning of the system and enhance the safety to the end user.

Wheelchair and Occupant Restraint



Note: Passenger side mid-point position shown. Driver side mid point securement is a mirrored image. Attachment procedures are identical.

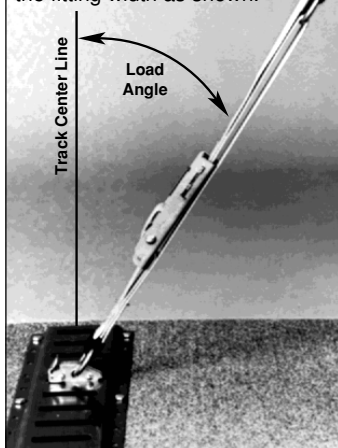


Wheelchair and Occupant Restraint

Forward-Facing Wheelchair and Occupant Belt/Track System Instructions continued

Strap Angle Positioning:

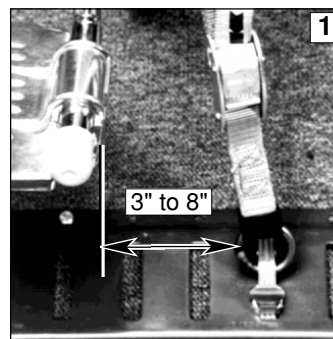
The load angle should not be less than 30° or more than 60° from vertical in a plane along the fitting width as shown.



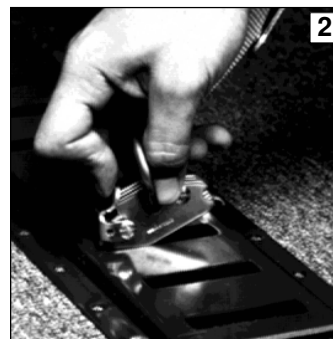
Front Cam Buckle Strap Attachments

Read all warnings posted on page on page 26!

1. Position and install the strap's track fitting three inches to eight inches outside the front wheel with the keeper away from wheelchair. ►



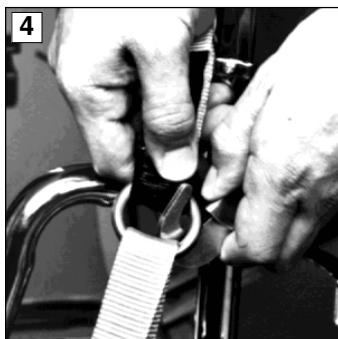
2. To install the track fitting, depress the keeper and insert the fitting (keeper end first) into the track as shown. ►



3. Drop back end of fitting into track, and release keeper to lock as shown. Pull on fitting to ensure that it is locked in track. To remove, simply reverse the procedure. ◀



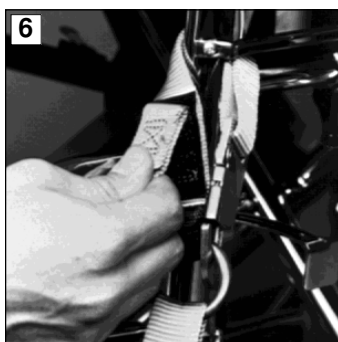
4. Loop the other end of the strap around the front of the wheelchair frame at a structurally secure location and attach the snap hook into the round ring as shown. Be careful to keep the strap away from sharp edges or corners. ◀



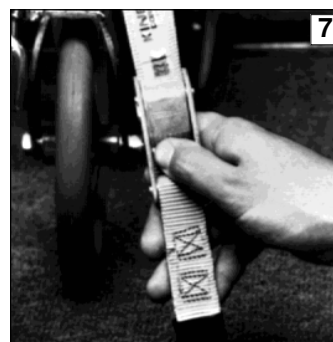
5. Pull the tensioning strap on the cam buckle until tight. Repeat the four steps for the other front strap, making certain the wheelchair is positioned perpendicular to the floor track. ►



6. Velcro* is provided to attach loose strap ends. ◀



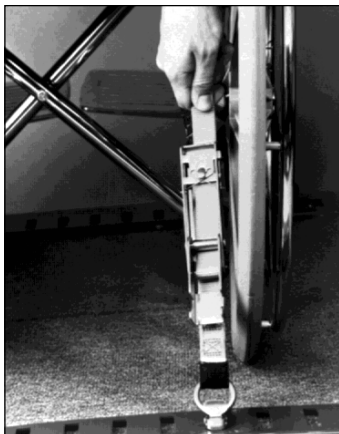
7. To release the tension on the strap, press the buckle cam as shown. ►



*Velcro is a registered trademark of Velcro USA, Inc.

Wheelchair and Occupant Restraint

Read all warnings posted on page 26!



Rear Over-Center Strap Attachments

- ◀ 1. Position and install the strap's track fitting below and just to the inside of the rear wheel as shown. Pull on fitting to ensure that it is locked in track. **Note:** See steps 2 and 3 on the opposite page for further track fitting (keeper) details.
2. Wrap the other end of the strap around the back of the wheelchair frame at a structurally secure location and attach the snap hook into the round ring. Be careful to keep the strap away from sharp edges or corners. ▶
- ◀ 3. Pull the tensioning strap until tight. While maintaining tension, lift handle, close and lock handle. Pull on buckle handle to ensure that it is locked.
4. To release over-center buckle, simply pull down tensioning strap towards floor as shown. ▶



Chrysler Easy-Out Roller™ Rear Bench Seat

The 3-Passenger Rear Bench Seat (standard Entervan feature) is equipped with Chrysler Easy-Out Rollers™. Refer to your Chrysler owner's manual for removal and installation instructions for this seat.

⚠ WARNING

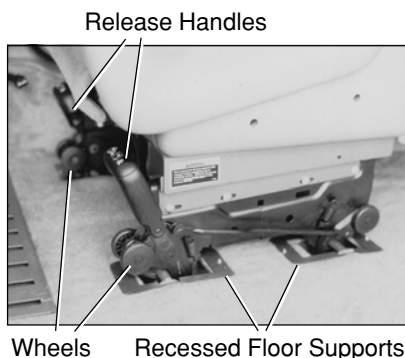
Install, remove and operate Chrysler Easy-Out™ seats as detailed in Chrysler owner's manual. Failure to do so may result in serious bodily injury and/or property damage.

Quick-Release Front Seats

⚠ 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.

- Front seat removal and installation procedures are identical for driver and passenger seat (driver seat photos shown).

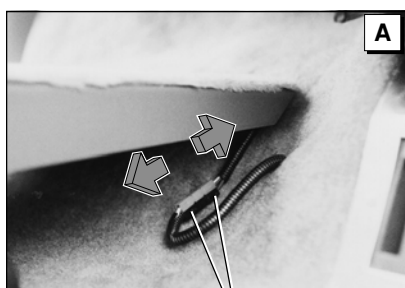


disengages the attachments and deploys the wheels. Squeezing the handles and rotating the handles upward engages the attachments.

A lock indicator button pops up when the seat is unlocked. The indicator button returns into the handle when the attachment mechanism is in the fully-engaged position (seat base attachments are fully-engaged with floor strikers) and in the fully-disengaged position (seat base attachments are fully-disengaged from floor strikers and wheels are deployed).

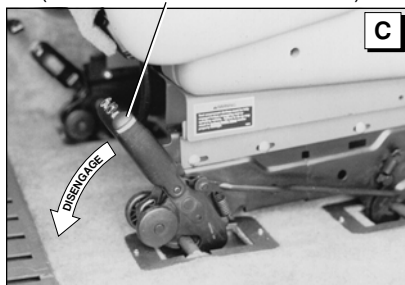


Front Seat Removal



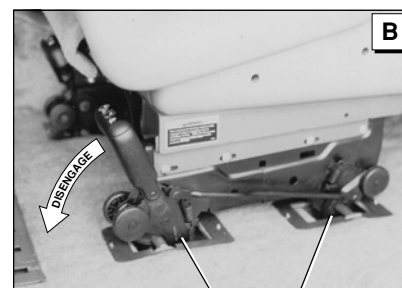
Disconnect sockets.

Lock Indicator Button UP
(Mid-Point of Handle Rotation).



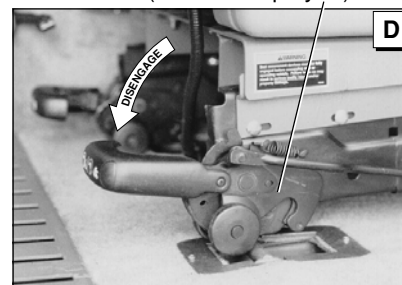
1. Disconnect the electrical harness sockets (carefully pull sockets apart).
2. Squeeze the release handles located at the rear of the seat bases and rotate downward. Rotate the handles down **fully** until the handles reach the locked (horizontal) position and the indicator buttons return into the handles (photos B-D).

Note: A lock indicator button pops up when the seat is unlocked (mid-point of handle rotation). The indicator buttons return into the handles when the handles are rotated fully down (seat base attachments are fully-disengaged from floor strikers and wheels are deployed).



Fully-Engaged Seat Attachments

Fully-Disengaged Seat Attachments (Wheels Deployed)



Quick-Release Front Seats

Front Seat Removal continued

⚠ CAUTION

Do not contact the ramp when reclining or moving a passenger seat rearward. Doing so may result in property damage.

3. Tip seat slightly backwards and roll seat base out of vehicle. ▶

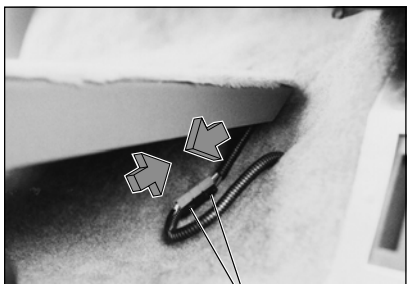


Front Seat Installation



1. Roll seat base into position (aligning the seat base attachments with the recessed floor strikers).
2. Squeeze the release handles located at the rear of the seat bases and rotate upward to latch the seat base attachments with the recessed floor strikers (receptacles). Rotate the handles up and fully forward until the handles reach the locked position and the indicator buttons return into the handles. See photos F, G and H.

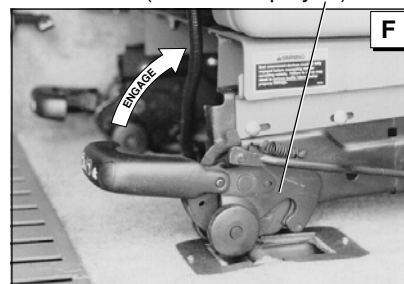
Note: Be certain all seat base attachments are fully latched. **Read warning on opposite page!**



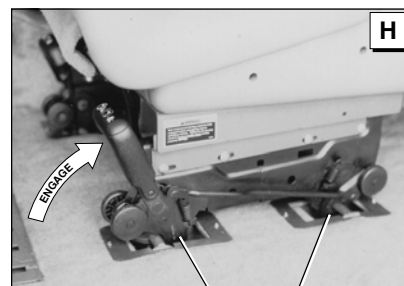
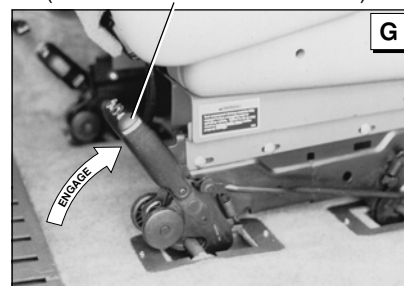
Connect sockets.

3. Connect (plug) the electrical harness sockets. ◀

Fully-Disengaged Seat Attachments (Wheels Deployed)



Lock Indicator Button UP (Mid-Point of Handle Rotation).



Fully-Engaged Seat Attachments

Spare Tire Mount and Storage Cabinet

Storage Cabinet Handle



The storage cabinet provides storage for the wheelchair and occupant restraint belts. The cabinet can also be used for storage of roadside emergency equipment.

Lift and rotate the handle counter-clockwise to open the cabinet. Rotate the handle clockwise and push in to latch the handle.

Wheelchair and Occupant Belts



Tire Changing

Spare Tire and Jack Location: Due to the modifications* made to the Chrysler OEM (factory) chassis during the Entervan conversion process, the Entervan spare tire and jack are relocated. The spare tire is mounted to the spare tire mount and storage cabinet located inside the rear of the Entervan, **not** in the location outlined in the Chrysler-supplied owner's manual. The jack and jack handle are stored in the spare tire mount and storage cabinet.

Jacking and tire changing procedures have not been affected by the conversion. Detailed tire changing instructions are provided in the Chrysler-supplied owner's manual. **Refer to the Chrysler-supplied manual for tire changing instructions and safety precautions, as well as instructions regarding other roadside emergencies.**

Altered Vehicle decal #21422 (stapled below) is supplied to notify anyone raising or changing a tire on an Entervan that the spare tire and jack have been relocated. Affix decal #21422 to the appropriate page in the Chrysler-supplied owner's manual



Tire Cover

Spare Tire Mount and Storage Cabinet

where the Tire Changing Instructions begin. In the event that someone attempting to raise the vehicle does not refer to this manual, Altered Vehicle decal #21422 will direct the person to the spare tire and jack storage location.

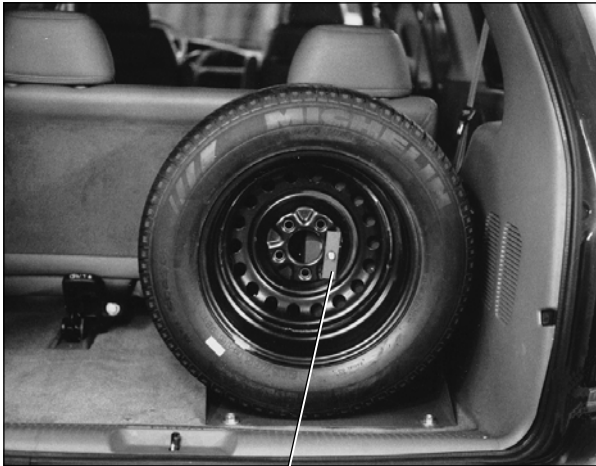
◀ Decal #21422

* This vehicle was altered by The Braun Corporation and as altered it conforms to all Federal Motor Vehicle Safety Standards affected by the alteration in effect at the date of manufacture.

Tire Changing

Spare Tire Access

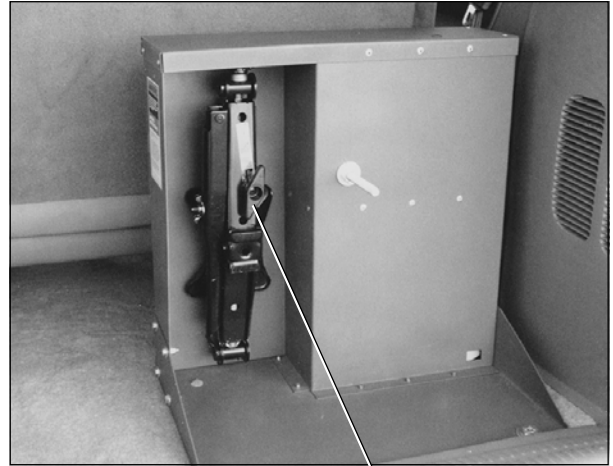
1. Remove the tire cover.
2. Loosen and remove the retaining nut (turn counterclockwise). Remove the spare tire.



Retaining Nut

Jack Location and Access

1. Remove spare tire as detailed at left.
2. Loosen and remove the jack storage threaded retainer stud (turn counterclockwise). Remove the jack and jack handle.



Jack Storage Threaded Retainer Stud

Tire Changing Instructions

⚠ WARNING

Follow all jacking and tire changing instructions and safety precautions in the Chrysler-supplied owner's manual when changing a flat tire or raising the vehicle. Failure to do so may result in **serious bodily injury and/or property damage.**

1. **Press** the dash-mounted red **KNEEL switch to the NO (down)** position. If the rear of the vehicle is in the kneeled position, the rear of the vehicle will raise automatically.

Note: If you have experienced power or equipment failure and the vehicle is in the kneeled position, refer to the Kneel Actuator

2. **Refer to the Chrysler factory-supplied manual for tire changing instructions.**
3. **Store and Secure Jack and Tire:** Replace the jack and jack handle in the spare tire mount and storage cabinet and resecure. Secure the flat tire to the spare tire mount and storage cabinet.

Compact Spare Tire: The **compact spare tire** and wheel assembly (if so equipped), **is for emergency use only (not for continuous use)**. The compact tire should only be used for the minimum length of time (mileage) required to get to a tire service center. Have the proper (original - full size) tire repaired or replaced immediately. Repair or replace the spare tire if worn or damaged.

Manual Release Instructions on pages 23 and 24 of this manual to raise the vehicle. Kneel Actuator Manual Release Instructions decal #52215 is posted on the driver side interior wall panel rear of the sliding door above the red-handled manual release lever assembly. This decal provides instructions for overriding the kneel system.

Maintenance and Lubrication Schedule

WARNING

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

Normal vehicle maintenance must be performed as outlined in the Chrysler-supplied owner's manual. This maintenance is not the responsibility of The Braun Corporation. Refer to the Warranty section of this manual for details regarding The Braun Corporation Entervan Warranty.

Have an authorized service repairman perform the following Entervan maintenance and lubrication procedures at the scheduled intervals according to the number of cycles or elapsed time, whichever comes first. Discontinue **Entervan use immediately** if maintenance and lubrication procedures are not or cannot be properly performed, or if there is any sign of improper operation, damage, wear or any abnormal condition.

Contact your dealer or call The Braun Corporation at 1-800-THE LIFT. One of our national service representatives will direct you to an authorized service repairman who will inspect your Entervan.

Proper maintenance is necessary to ensure safe, troublefree operation. Apply lubricants as outlined in the chart below. **Note:** Severe conditions (weather, environment, heavy usage, etc.) may require more frequent maintenance. When replacing lubed components, be sure to lubricate during installation procedures.

** Lubricants specified within the schedule are available from The Braun Corporation. Part numbers of these lubricants are provided on page 36.*

4 Weeks or 100 Cycles*	Inboard (floor) ramp hinge	<i>Clean and lubricate with * Light Oil</i>
	Outboard ramp extension hinge	<i>Clean and lubricate with * Light Oil</i>
	Ramp fold pick-up bearing	<i>Lubricate with * Light Oil</i>
	Ramp extension cable	<i>Inspect for proper alignment, securement or defects such as cuts, fractures, etc. Resecure, replace or otherwise correct as needed</i>
	Wheelchair and occupant restraint belts (*visually inspect before every use)	<i>Inspect for any defects such as cuts, fraying or any malfunction of belt, buckle or securement hardware. Replace immediately if defective.</i>

1 Year or 1250 Cycles	Perform all procedures listed in previous section also	
	Inspect removable front seat bases for proper engagement of latching mechanisms	<i>Replace or correct as needed</i>
	Ramp fold arm bearing slot	<i>Lubricate with * Light Grease</i>
	Ramp rotation (Passive Access) top and bottom pivot points	<i>Lubricate with * Light Oil</i>
	Passive Access ramp latch	<i>Inspect for proper operation, wear or damage. Lubricate with * Light Oil</i>
Passive Access ramp latch cable. See <i>Cable Adjustment</i> in General Inspection section if release knob does not seat properly in the knob retainer bracket (knob contacts bracket preventing positive latching).		<i>Inspect for proper operation, wear or damage. Resecure, replace or otherwise correct as needed.</i>

continued

Maintenance and Lubrication Schedule

continued	General Inspection	
<div>1 Year or 1250 Cycles</div>	Inspect ramp fold arm for proper alignment with ramp pick-up bearing	<i>Correct or adjust as needed</i>
	Inspect ramp fold arm bearing slot for excessive wear or damage	<i>Replace if needed</i>
	Inspect ramp for proper operation and positive securement	<i>Tighten, lubricate, adjust microswitches, replace defective parts or otherwise correct as needed</i>
	Lower power slide door track	<i>Inspect for obstructions and clean</i>
	Passive Access system - inspect:	
	<ul style="list-style-type: none"> • Latch for proper operation (<i>apply * Light Oil</i>) • Latch mounting hardware for positive securement (loose or missing mounting hardware) • Release cable for positive securement, alignment, wear, or other damage • Release knob retainer bracket for positive securement, deformation, or other damage • Does release knob seat properly in the knob retainer bracket? See <i>Cable Adjustment</i> if knob contacts bracket preventing positive latching. • Passive Access latch pin (bolt assembly) for positive securement, wear, misalignment, or other damage • Missing or damaged ramp retaining hairpin cotter and/or floor rotation flat washer • Top and/or bottom ramp pivot points (axles and/or bearing surfaces) for deformation, wear or other damage (<i>apply * Light Oil</i>) 	<i>Realign, tighten, lubricate, replace defective parts or otherwise correct as needed.</i> <i>Cable Adjustment: Loosen cable securement Allen screws at knob and insert cable further and resecure. Remove knob and shorten cable (1/8" intervals) if needed only.</i>
	Remove ramp motor cover and inspect:	
	<ul style="list-style-type: none"> • Motor mounting bolts for securement (loose or missing) • Ramp fold arm securement (key) • Microswitches securement and adjustment • Microswitch wires and terminals for securement or damage 	<i>Resecure, adjust microswitches, replace defective parts or otherwise correct as needed.</i> Note: See Ramp Motor Assembly exploded view on page 48.
	Inspect ramp, ramp fold arm and hinge assemblies for broken welds, stress fractures, etc.	<i>Replace defective parts or otherwise correct as needed</i>
	Inspect Kneel actuator assembly for:	
	<ul style="list-style-type: none"> • Actuator mounting bolts securement (loose or missing) • Actuator shaft/chain bearing slots for excessive wear or damage • Actuator shaft/chain bearing slots for lubrication (<i>* Light Grease</i>) 	<i>Realign, resecure, adjust, lubricate, replace defective parts or otherwise correct as needed.</i> Note: See Kneel Actuator Assembly exploded view on page 50 also.
continued	(continued)	

Maintenance and Lubrication Schedule

continued

General Inspection * continued

Inspect Kneel actuator assembly for:

(continued)

- Actuator shaft/chain bearing lock collars for securement
- Inspect chain for misalignment, wear or damage (*apply * Light Grease*)
- Inspect chain cotter pins for securement
- Inspect chain UHMW idler for securement, wear, damage or misalignment
- Inspect electrical harnesses for positive connections, proper routing, wear or other damage
- Inspect proximity switch mounting screws
- Inspect polyethylene hose for positive connection, routing, kinks, holes, wear or other damage
- Release cable mounting bracket mounting bolts securement (loose or missing)
- Release cable securement (turnbuckle connection at motor, threaded mounting stud at mounting bracket and all jam nuts)
- Release cable alignment, routing, kinks, wear, or other damage

Realign, resecure, adjust, lubricate, replace defective parts or otherwise correct as needed.
Note: See Kneel Actuator Assembly exploded view on page 50 also.

Inspect power cable

Resecure, repair or replace

Inspect ground cable

Resecure, repair or replace

Decals

Replace if worn, missing or illegible. See Decals on pages 52-57.

**1 Year
or
1250
Cycles**

Refer to the Maintenance/Lubrication Schedule for recommended applications per number of cycles or elapsed time.

Lubricant	Type	Specified (recommended) Lubricant	Available Amount	Braun Part No.
* Light Oil	Light Penetrating Oil (30 weight or equivalent)	LPS2, General Purpose Penetrating Oil	11 oz. Aerosol Can	15807
* Light Grease	Light Grease (Multipurpose)	Lubriplate	14 oz. Can	15805

Troubleshooting Diagnosis Chart

⚠ WARNING

Troubleshooting and repair procedures must be performed as specified by authorized service personnel only. Failure to do so may result in serious bodily injury and/or property damage.

If a problem occurs with your Entervan, **discontinue operation immediately**. Contact your dealer or call The Braun Corporation at 1-800-THE LIFT. One of our national service representatives will direct you to an authorized service repairman who will inspect your Entervan.

The cause of the problem can be determined by locating the function and related symptom in the Troubleshooting Diagnosis Chart. The specific cause and remedy can then be determined by process of elimination. An Electrical Schematic and a Wiring Diagram are provided for troubleshooting diagnosis. A Repair Parts section (Section 4) with exploded views and corresponding parts lists is provided. Correct the problem if possible. If the problem continues, contact The Braun Corporation.

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
1.00 NO OPERATION	1.10 No Power To Entervan Systems (Circuit Problem)	1.11 Poor ground connection 1.12 Battery terminals dirty 1.13 Battery defective 1.14 Battery discharged 1.15 12 volt source 1.16 Circuit breaker faulty	<i>Clean and tighten</i> <i>Clean and tighten</i> <i>Replace</i> <i>Charge battery</i> <i>Check for loose terminals or broken wire or cable</i> <i>Repair or replace</i>
	1.20 Power to Entervan Systems But No Operation	1.21 Transmission not in Park 1.22 MANUAL/AUTO switch(s) not in AUTO position 1.23 Park Interlock microswitch harness disconnected or defective 1.24 Park Interlock microswitch out of adjustment or defective 1.25 Loose connection 1.26 Broken wire 1.27 Wire terminal 1.28 Switch defective 1.29 Relay(s) defective	<i>Engage transmission in Park</i> <i>Press switch to AUTO position</i> <i>Connect, repair or replace</i> <i>Adjust or replace</i> <i>Clean and tighten</i> <i>Repair or replace</i> <i>Crimp tightly to wire</i> <i>Replace</i> <i>Replace</i>
2.00 KNEEL SYSTEM (LOWER)	2.10 No LOWER Operation	2.11 See 1.00 2.12 Park Interlock harness disconnected or defective 2.13 KNEEL switch not in YES position 2.14 Kneel Actuator MANUAL/AUTO switch not in AUTO position 2.15 Kneel actuator brake manually released or other Kneel Actuator Manual Release problem. 2.16 Open control not activated continuously for two seconds or more (delay feature) 2.17 Kneel time delay defective 2.18 Faulty fuse 2.19 Actuator harness disconnected, damaged or otherwise defective 2.20 Actuator defective 2.21 Roller chain disconnected, damaged or otherwise defective	 <i>Connect, repair or replace</i> <i>Press Kneel switch to YES position</i> <i>Press switch to AUTO position</i> <i>Correct or repair as needed</i> <i>Activate OPEN control for two seconds or longer (through delay)</i> <i>Replace</i> <i>Replace fuse</i> <i>Connect, repair or replace</i> <i>Replace</i> <i>Connect, repair or replace</i>
<small>continued</small>	<small>continued</small>		

Troubleshooting

Troubleshooting

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
<i>continued</i>	<i>continued</i>	4.11 See 1.00 4.12 Faulty fuse 4.13 Door harness disconnected or defective 4.14 Door Opened microswitch out of adjustment or defective 4.15 Door time delay defective 4.16 Open control not activated continuously for two seconds or more after door is fully open (delay feature) 4.17 Ramp motor harness disconnected or defective 4.18 Ramp Unfolded microswitch out of adjustment or defective 4.19 Ramp motor defective	Replace fuse Connect, repair or replace Adjust or replace Replace Continue to activate OPEN control for two seconds or longer after door is open (through delay) Connect, repair or replace Adjust or replace Replace motor
4.00 RAMP UNFOLD	4.10 NO UNFOLD Operation		
	4.20 Ramp Contacts Door	4.21 Door not fully open 4.22 Passive Access latch not fully engaged (ramp not latched)	Adjust or replace Door Opened Microswitch Engage latch fully or repair Passive Access latch system
	4.30 Faulty Unfold Operation	4.31 Ramp Unfolded microswitch harness disconnected or defective 4.32 Ramp Unfolded microswitch out of adjustment or defective 4.33 Misalignment or damage to: • Ramp fold bearing • Ramp fold arm • Ramp fold arm bearing slot • Ramp hinge 4.34 Loose, damaged or missing fold arm securement key 4.35 Mechanical binding 4.36 Lack of lubrication	Connect, repair or replace Adjust or replace Realign, tighten, replace defective parts or otherwise correct as needed Tighten, replace or otherwise correct as needed Check and correct Lubricate — See Maintenance and Lubrication Schedule
	4.40 Faulty Ramp Extension Unfold	4.41 Ramp extension cable broken, detached, misaligned or otherwise defective	Replace, attach or otherwise correct
5.00 RAMP FOLD	5.10 NO FOLD Operation	5.11 See 1.00 5.12 Faulty fuse 5.13 Ramp harness disconnected or defective 5.14 Ramp Folded microswitch out of adjustment or defective 5.15 See 4.13, 4.14, 4.18 and 4.19	Replace fuse Connect, repair or replace Adjust or replace
	5.20 Faulty Fold Operation	5.21 CLOSE control not activated throughout entire ramp folding function (until ramp stops) 5.22 Ramp Folded microswitch harness disconnected or defective	Activate CLOSE control until ramp stops (folds fully) Connect, repair or replace
<i>continued</i>	<i>continued</i>		

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
<small>continued</small> 5.00 RAMP FOLD	<small>continued</small> 5.20 Faulty Fold Operation	5.23 Ramp Folded microswitch out of adjustment or defective 5.24 See 4.33, 4.34, 4.35 and 4.36	<i>Adjust or replace</i>
6.00 POWER DOOR (CLOSE)	6.10 NO CLOSE Operation	6.11 See 1.00 and 3.10 6.12 Ramp harness disconnected or defective 6.13 Ramp Folded microswitch out of adjustment or defective	<i>Connect, repair or replace</i> <i>Adjust or replace</i>
	6.20 Motor Runs - Door Does Not Move	6.21 See 3.20	
	6.30 Faulty Operation	6.31 See 3.30	
	6.40 Door Will Not Close Fully	6.41 Obstruction in door opening 6.42 CLOSE control not activated throughout entire door closing function (until door stops) 6.43 Door Closed microswitch out of adjustment or defective	<i>Remove obstruction</i> <i>Activate CLOSE control until door stops (closes fully)</i> <i>Adjust microswitch so door closes fully or replace</i>
	6.50 Door Contacts Ramp When Closing	6.51 Outboard ramp extension hinge not properly lubricated, obstructed or otherwise damaged 6.52 Ramp Folded microswitch harness defective 6.53 Ramp Folded microswitch out of adjustment or defective	<i>Clean and lubricate with * Light Oil, remove obstruction or otherwise correct</i> <i>Connect, repair or replace</i> <i>Adjust or replace</i>
7.00 KNEEL SYSTEM (RAISE)	7.10 NO RAISE Operation	7.11 See 1.00, 2.12, 2.13, 2.18, 2.19, 2.20 and Section 2.30	
	7.20 Faulty Operation	7.21 See Section 2.30	
8.00 REMOTE CONTROL	8.10 No Operation	8.11 See 1.00	
	8.20 Power to Entervan Systems But No Power to Receiver	8.21 Wire terminals 8.22 Broken wire 8.23 Poor ground connection 8.24 Faulty fuse 8.25 Wiring harness unplugged	<i>Crimp tightly</i> <i>Repair</i> <i>Clean and tighten</i> <i>Replace fuse</i> <i>Connect securely</i>
	8.30 No Signal (Code) Being Transmitted	8.31 9 Volt battery defective 8.32 Transmitter switch defective 8.33 Transmitter replaced without proper coding 8.34 Additional transmitter added to system without proper coding	<i>Replace if under 8.8 volts</i> <i>Replace transmitter</i> <i>Match transmitter code to receiver.</i> Procedure: Match transmitter DIP switches #1-#9 to receiver DIP switch code. Transmitter DIP switch #10 must be opposite receiver DIP switch #10. <i>Note: Reverse #10 switches to reverse transmitter push button functions.</i>
<small>continued</small>	<small>continued</small>		

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
8.00 REMOTE CONTROL	<i>continued</i> 8.40 Poor Reception (Pulsating)	8.41 Vehicle battery 8.42 9 Volt battery low 8.43 Antenna deformed or damaged 8.44 Antenna contacting metal 8.45 Antenna loose in receiver receptacle 8.46 Out of 35 foot maximum range	<i>Check voltage. Replace if defective. Replace if under 8.8 volts Correct or replace Correct Tighten Move transmitter within range</i>
	8.50 Signal Received But No Operation	8.51 See 8.20 8.52 Defective receiver	<i>Replace receiver</i>
9.00 KNEEL ACTUATOR MANUAL RELEASE	9.10 No Operation	9.11 Release cable missing, disconnected (turnbuckle connection at motor, threaded mounting stud at mounting bracket, release lever connection), or otherwise defective 9.12 Power still applied to actuator (Kneel Actuator MANUAL/AUTO switch not in MANUAL position)	<i>Replace, connect or repair Press switch to MANUAL position</i>
	9.20 Faulty Operation	9.21 Detent pin not inserted in release handle (fully-rearward position) 9.22 Release cable out of adjustment, out of alignment, routing obstruction, kinked, worn or otherwise damaged 9.23 Manual release lever bent, deformed or misaligned 9.24 Wear or damage to actuator shaft/chain bearing slots 9.25 Lack of lubrication in actuator shaft/chain bearing slots 9.26 Loose, misaligned or damaged actuator shaft/chain bearing lock collars 9.27 Loose or missing release cable mounting bracket mounting bolts	<i>Insert detent pin in release handle (fully-rearward position) Align, reroute, remove kinks, repair or replace Correct or replace Correct or replace Lubricate — * Apply Light Grease Tighten, align or replace Tighten or replace</i>
10.00 KEY ENTRY	10.10 No OPEN Operation	10.11 See 1.00 10.12 Key Entry key not held in OPEN position long enough (delay) 10.13 Key Entry Open microswitch harness disconnected or defective 10.14 Key Entry Open microswitch out of adjustment or defective 10.15 Faulty fuse 10.16 Time Delay harness disconnected or defective 10.17 Time Delay defective	<i>Hold key in OPEN position for approximately two seconds to start operation Connect, repair or replace Adjust or replace Replace fuse Connect, repair or replace Replace Time Delay</i>
	10.20 Faulty OPEN Operation	10.21 Misalignment, wear or damage to slide lever, bushing spacers or mounting bracket 10.22 See 10.14, 10.16 and 10.17	<i>Realign, replace defective parts or otherwise correct as needed</i>

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
10.00 KEY ENTRY	<small>continued</small>	10.31 See 1.00	
	10.30 No CLOSE Operation	10.32 Key Entry Close microswitch harness disconnected or defective 10.33 Key Entry Close microswitch out of adjustment or defective	<i>Connect, repair or replace</i> <i>Adjust or replace</i>
	10.40 Faulty CLOSE Operation	10.41 See 10.21 and 10.33	
11.00 Passive Access System	11.10 No Release Operation	11.11 Release cable broken, disconnected or otherwise defective 11.12 Faulty Passive Access latch (will not disengage)	<i>Connect or replace cable</i> <i>Replace latch</i>
	11.20 Faulty Release Operation	11.21 Loose, worn or otherwise damaged Passive Access latch 11.22 Missing, loose, worn, bent, misaligned or otherwise damaged Passive Access latch pin (bolt assembly) 11.23 Mechanical binding 11.24 Lack of lubrication to latch	<i>Tighten, replace or otherwise correct as needed</i> <i>Tighten, replace or otherwise correct as needed</i> <i>Correct as needed</i> <i>Lubricate with * Light Oil</i>
	11.30 Faulty Rotation Operation	11.31 Missing PVC washer at bottom pivot point (axle) 11.32 Misalignment, deformation, wear or other damage to top and/or bottom pivot points (axles and/or bearing surfaces) 11.33 Misalignment, deformation, looseness, wear or other damage to inboard (floor) ramp hinge assembly, floor and lower slide door track assembly or mounting hardware 11.34 Mechanical binding 11.35 Lack of lubrication to top and bottom pivot points	<i>Replace washer</i> <i>Correct as needed</i> <i>Correct as needed</i> <i>Correct as needed</i> <i>Lubricate with * Light Oil</i>
	11.40 No Latching Operation	11.41 Faulty Passive Access latch (will not engage) 11.42 See 11.20	<i>Replace latch</i>
	11.50 Faulty Latching	11.51 Release knob does not seat properly in knob retainer bracket preventing latch from returning to spring-loaded latch position 11.52 See 11.20, 11.33 and 11.41	<i>Cable Adjustment: Loosen cable securement Allen screws at knob and insert cable further and resecure. Remove knob and shorten cable (1/8" intervals) if needed only.</i>

Notes

Auxiliary Power Supply for Dealer-Installed Power Seat or Tie-Down

⚠ WARNING



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

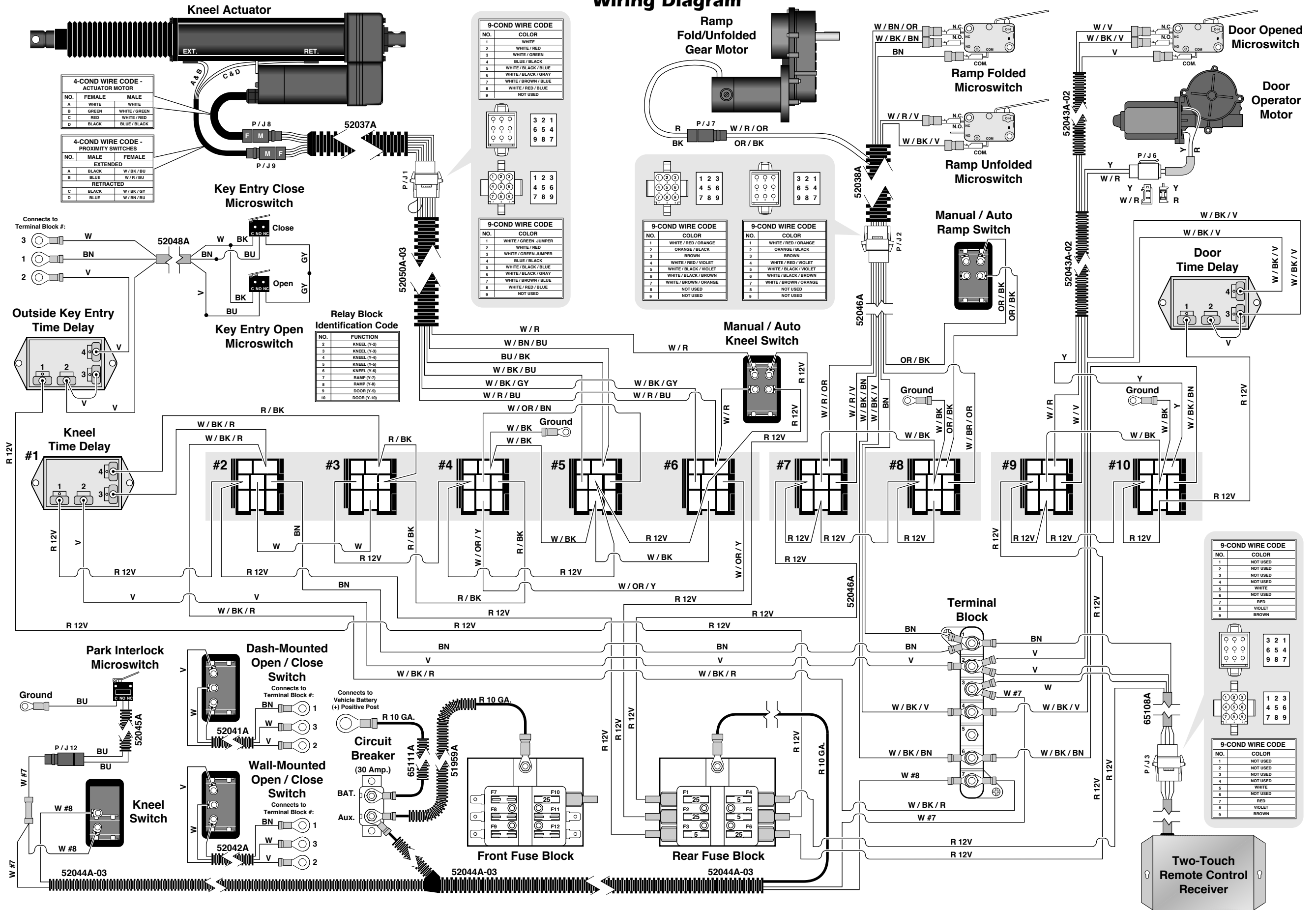
A fuse block that can accommodate up to six additional ATO® type fuses is provided behind the dash below the steering column. This power source is available for installation of a dealer-installed power seat, an electric tie-down or other auxiliary electrical device. **The installer is responsible for supplying the correct gauge wire and fuse** for the particular device to be attached to the fuse block (**as specified** by the manufacturer of the device).

The **maximum load must not exceed 25 amperes**. Wiring must be routed and terminated properly by the installer. Wires

with female fully-insulated terminals can simply be connected to one of six available terminals on the fuse block. **Note: If installing an auxiliary electrical device that requires more than a 25 ampere power source, an alternative power source must be provided.** Refer to the Electrical Schematic and Wiring Diagram contained in this manual.

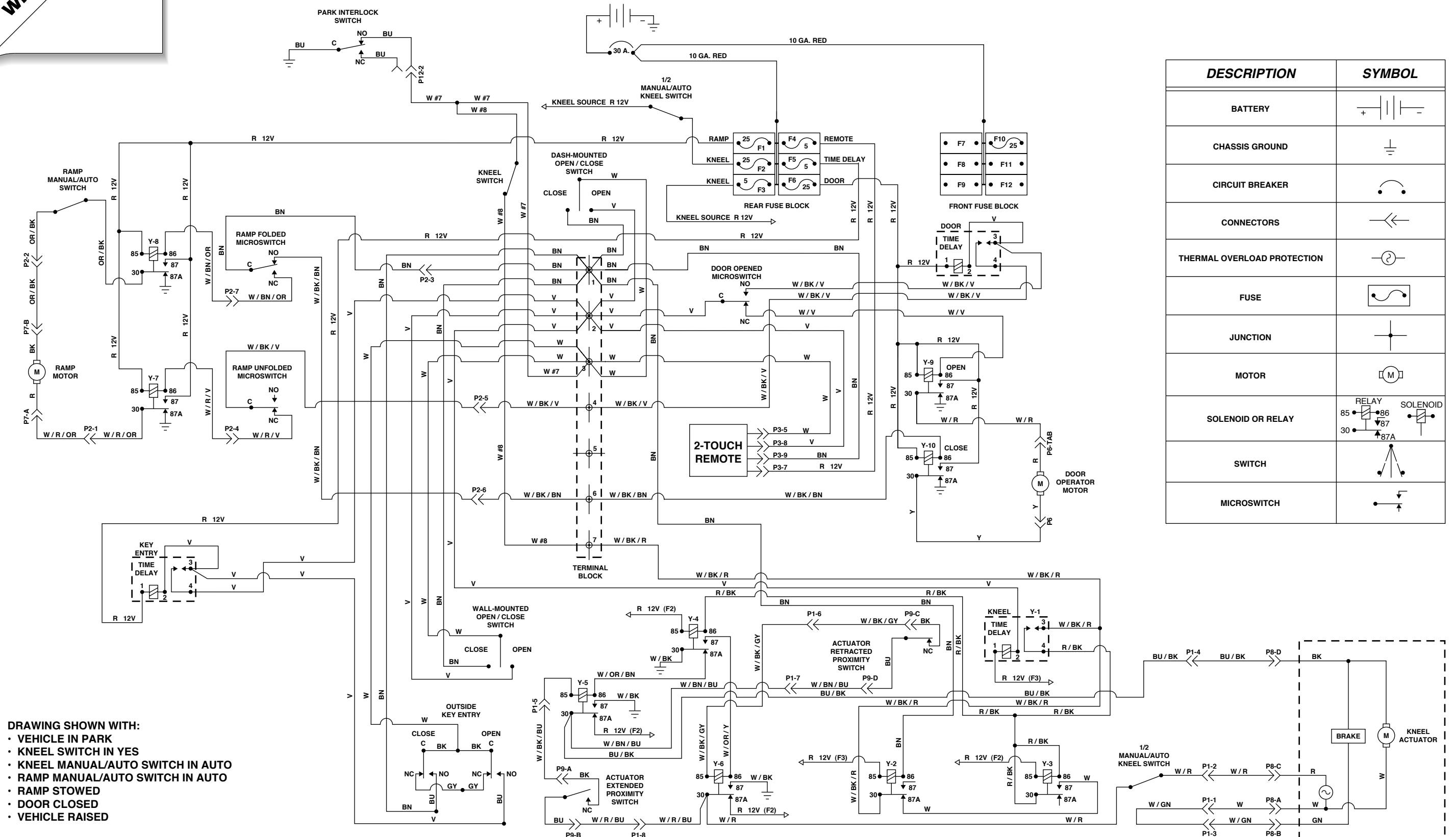
Note: A switch and power-supply cable are supplied with each Entervan® for use when installing an auxiliary electrical device (**if applicable**).

Wiring Diagram



Unfold for
Wiring Diagram

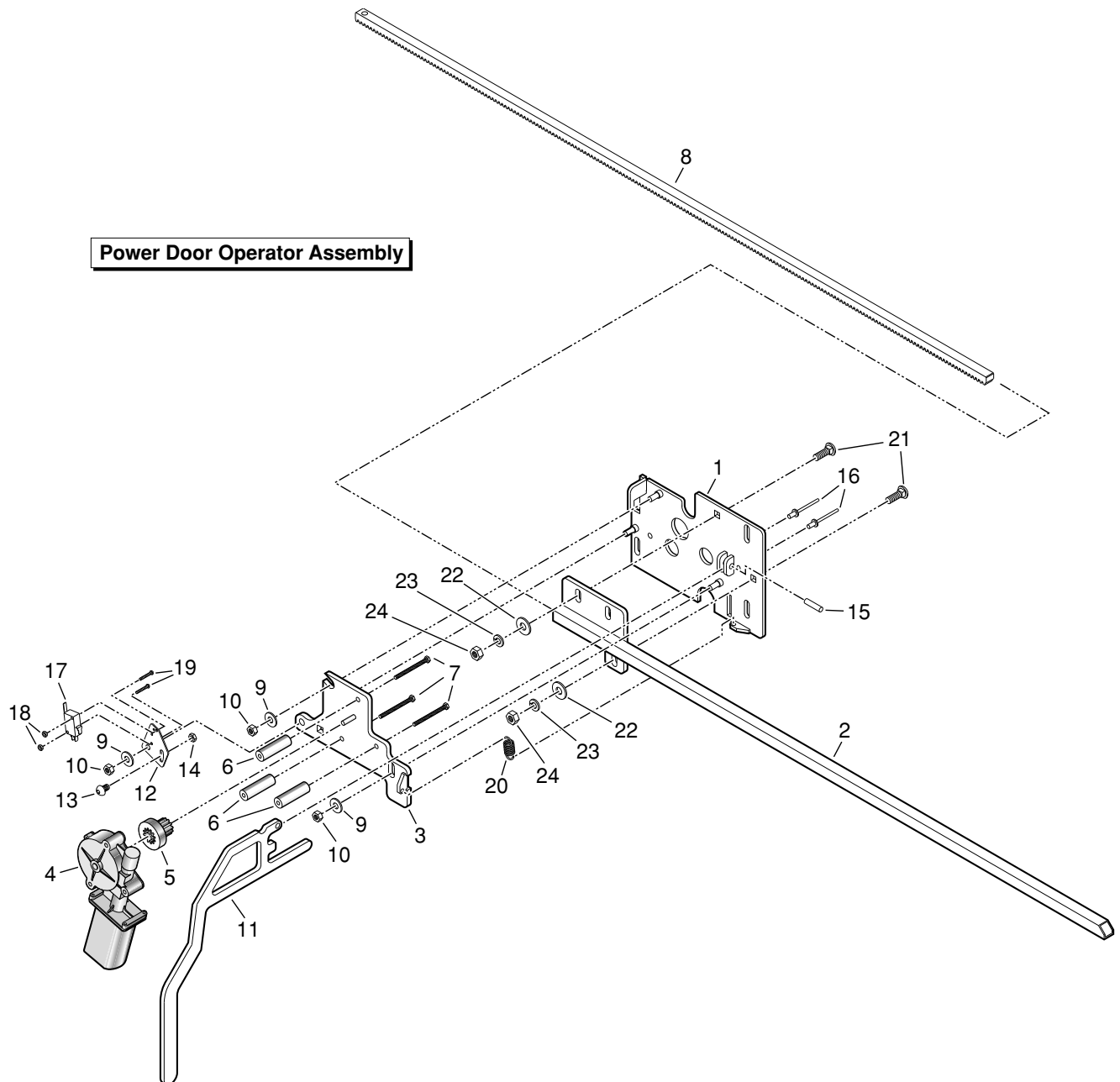
Electrical Schematic



Repair Parts

Item	Qty.	Description	Part No.
1	1	Weldment, Door Operator Bracket	51176A96
2	1	Weldment, Gear Rack Tube	51252A96
3	1	Weldment, Motor Mounting Pivot Plate	51178A
4	1	Motor	19069
5	1	Gear Adapter	19071
6	3	Spacer, Motor	19130
7	3	Screw, #12-24 x 2", HH Type 23	19095
8	1	Gear Rack, Door Operator	52510
9	3	Washer, 1/4", Flat	10062
10	3	Nut, 1/4"-20, Hex Lock	10775
11	1	Manual Release Handle	52509
12	1	Plate, Microswitch Mounting	52511

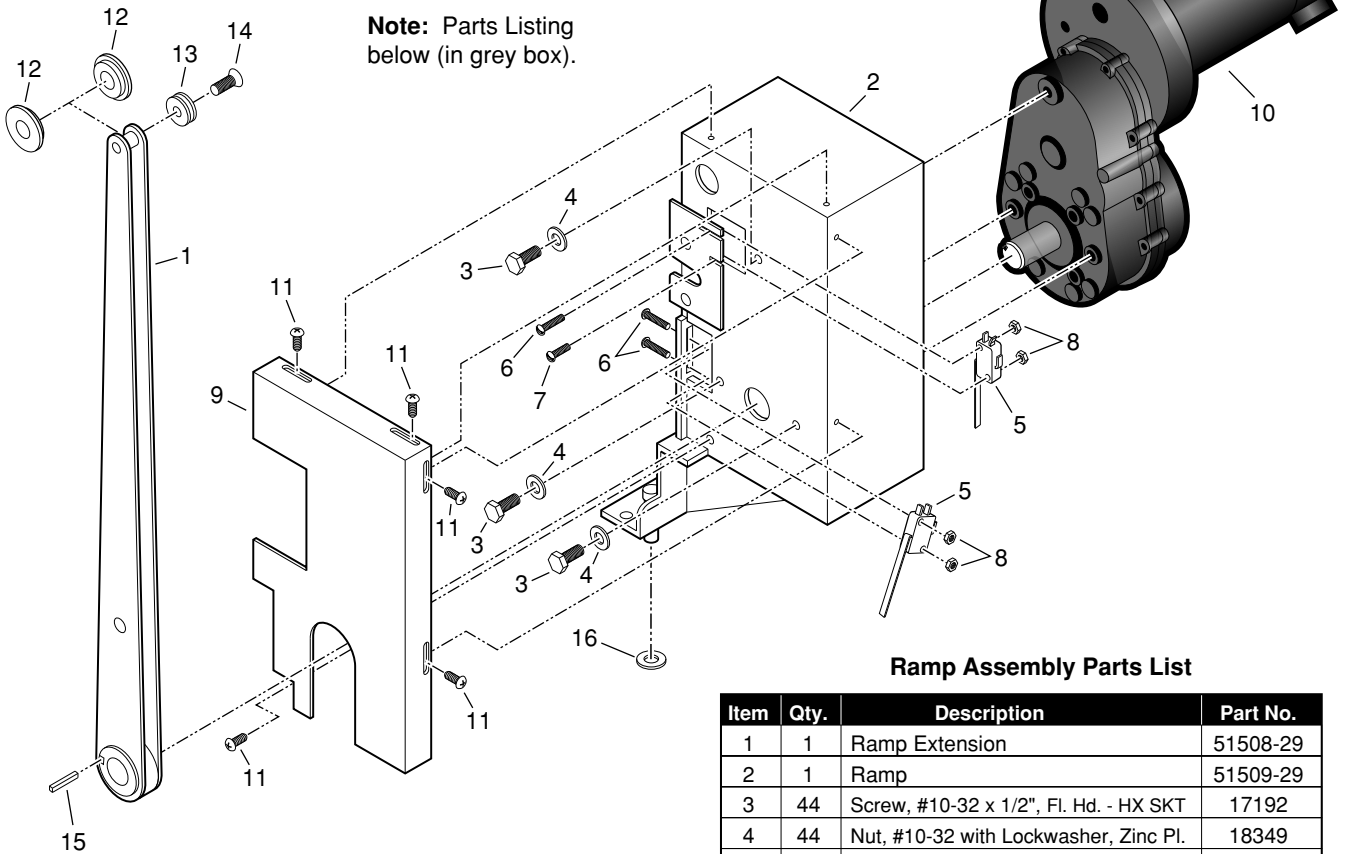
Item	Qty.	Description	Part No.
13	1	Screw, #10-32 x 1/2", Button Head -SK	17193
14	1	Nut, #10-32, with Lockwasher	18349
15	1	Pin, 1/4" Diameter x 1"	16314
16	2	Pop Rivet, SD64BS	11513
17	1	Microswitch	51816
18	2	Nut, #4-40, with Lockwasher	19537
19	2	Screw, #4-40 x 5/8", Round Head	14810
20	1	Spring, 1/4" x 1", Extension with Hooks	10774
21	2	Bolt, 5/16"-18 x 1", Carriage	15572
22	2	Washer, 5/16", Flat	10063
23	2	Washer, 5/16", Lock	10068
24	2	Nut, 5/16"-18, Hex	10058



Repair Parts

Power Ramp Motor Assembly

Note: Parts Listing below (in grey box).



Ramp Assembly Parts List

Item	Qty.	Description	Part No.
1	1	Ramp Extension	51508-29
2	1	Ramp	51509-29
3	44	Screw, #10-32 x 1/2", Fl. Hd. - HX SKT	17192
4	44	Nut, #10-32 with Lockwasher, Zinc Pl.	18349
5	1	Hinge, 2" x 1/4" x 28", Stainless	18619R028
6	1	Weldment, Ramp Hinge - 29"	51542A-29
7	3	Stop, Mini Ramp, 30" (7 Gauge)	19129
8	1	Stop, Mini Ramp, 30"	18602
9	1	Link Extension Weldment	19021A
10	6	Screw, 1/4"-20 x 1/2", Fl. Soc. Cap Hd.	18860
11	2	Bolt, 1/4"-20 x 3/4", Allen, Flat Head	18708
12	1	Screw, 1/4"-20 x 3/4", Allen, Button Hd.	20143
13	1	Washer, 1/4", Lock	10067
14	1	Washer, 1/4", Flat	10062
15	1	Pin, Ramp Support	51815
16	1	Latch Bolt, Ramp Support	51541-96
17	1	Screw, #8-18 x 3/4", Wafer Head	14149
18	1	Cable Clip, 7/16", Plastic	15777
19	2	Rubber Bumper	10950
20	1	Bolt, 1/4"-20 x 1-1/4", Carriage	14756
21*	1	Hose, 1/4" x 5/8", Fuel	51211R (5/8")
22	2	Nut, 1/4"-20, Hex	10057
23	1	Cable Assembly	52513A
24	1	Latch, with Cable	51652A
25*	1	Hose, 1/4" x 2', Polyethylene	11144R (24")
26	1	Bracket, Cable Release, 29" Ramp	51547
27	6	Screw, #8-18 x 1/2", Self-Tap, Phillips	18533
28	1	Pin, Passive Release	18650
29	2	Screw, #8-32 x 1/8", Set	11557
30	1	Plate, Threshold, 29", Stainless Steel	51814
31	1	Nut, 1/4"-20, Nylock	14614

Power Ramp Motor Assembly Parts List

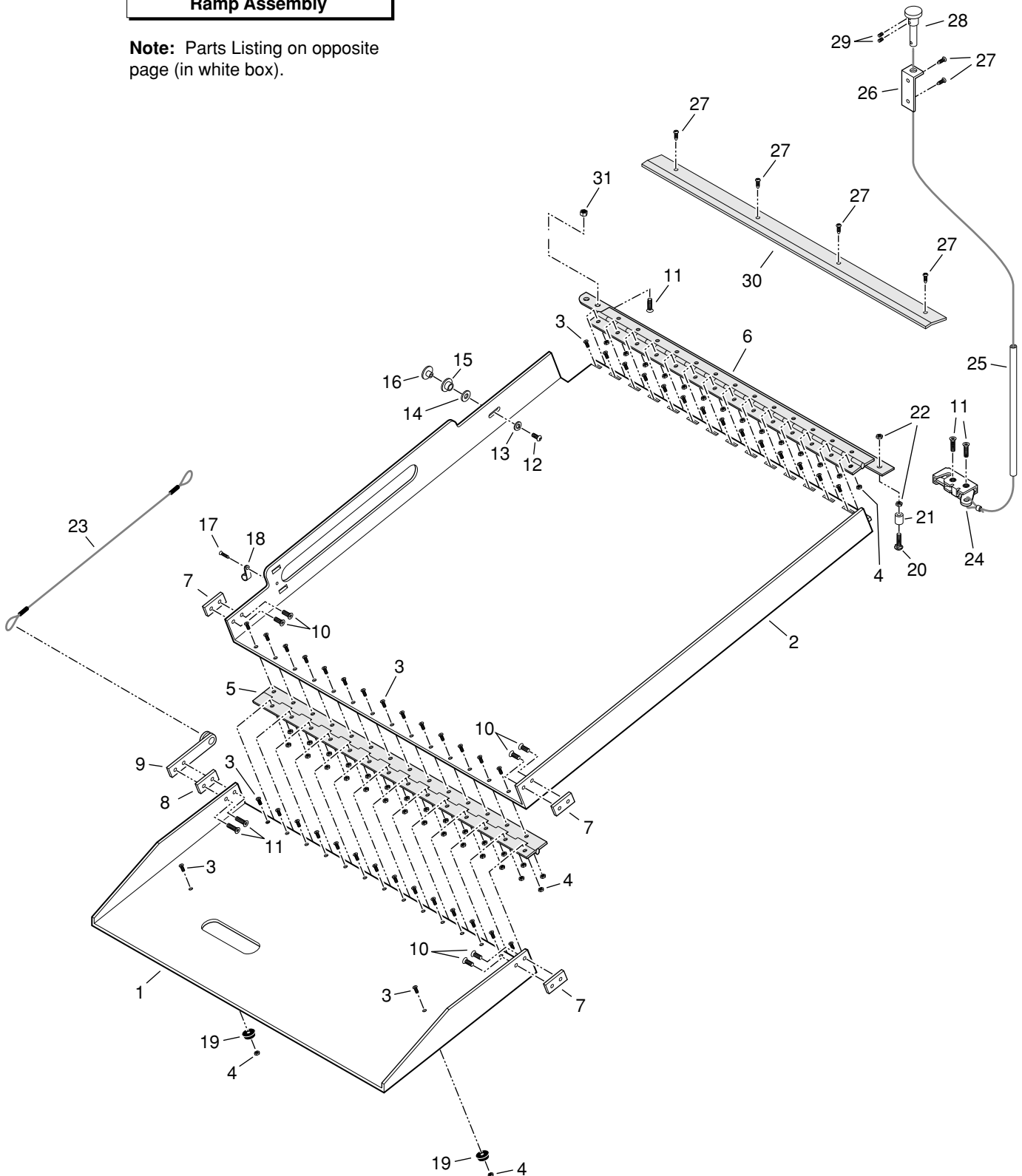
Item	Qty.	Description	Part No.
1	1	Drive Arm Weldment	51514A-30
2	1	Housing Weldment	51515A-30
3	3	Bolt, 1/4"-20 x 3/4", Hex	10970
4	3	Washer, 1/4", Flat	10062
5	2	Microswitch, SPDT Cherry	14218
6	3	Screw, #4-40 x 1" Round Head	11484
7	1	Screw, #4-40 x 3/4" Round Head	11483
8	4	Nut, #4-40 with Lockwasher, Zinc Pl.	19537
9	1	Cover, Gear Motor/Housing	51518
10	1	Motor, Ramp Assembly	51654A
11	5	Screw, #8-18 x 1/2", PH/PHL SD SS	18533
12	2	Bearing, Platform Fold	18851
13	1	Pulley, Ramp Cable, Arm Drive	51539
14	1	Bolt, 1/4"-20 x 3/4", Allen, Flat Head	18708
15	1	Key, 3/16" x 3/16" x 1-1/4"	11002
16	1	Washer, 3/8" x 1" x 1/16", PVC	19039

* Raw material items ordered and priced per length (order specified length)

Repair Parts

Ramp Assembly

Note: Parts Listing on opposite page (in white box).



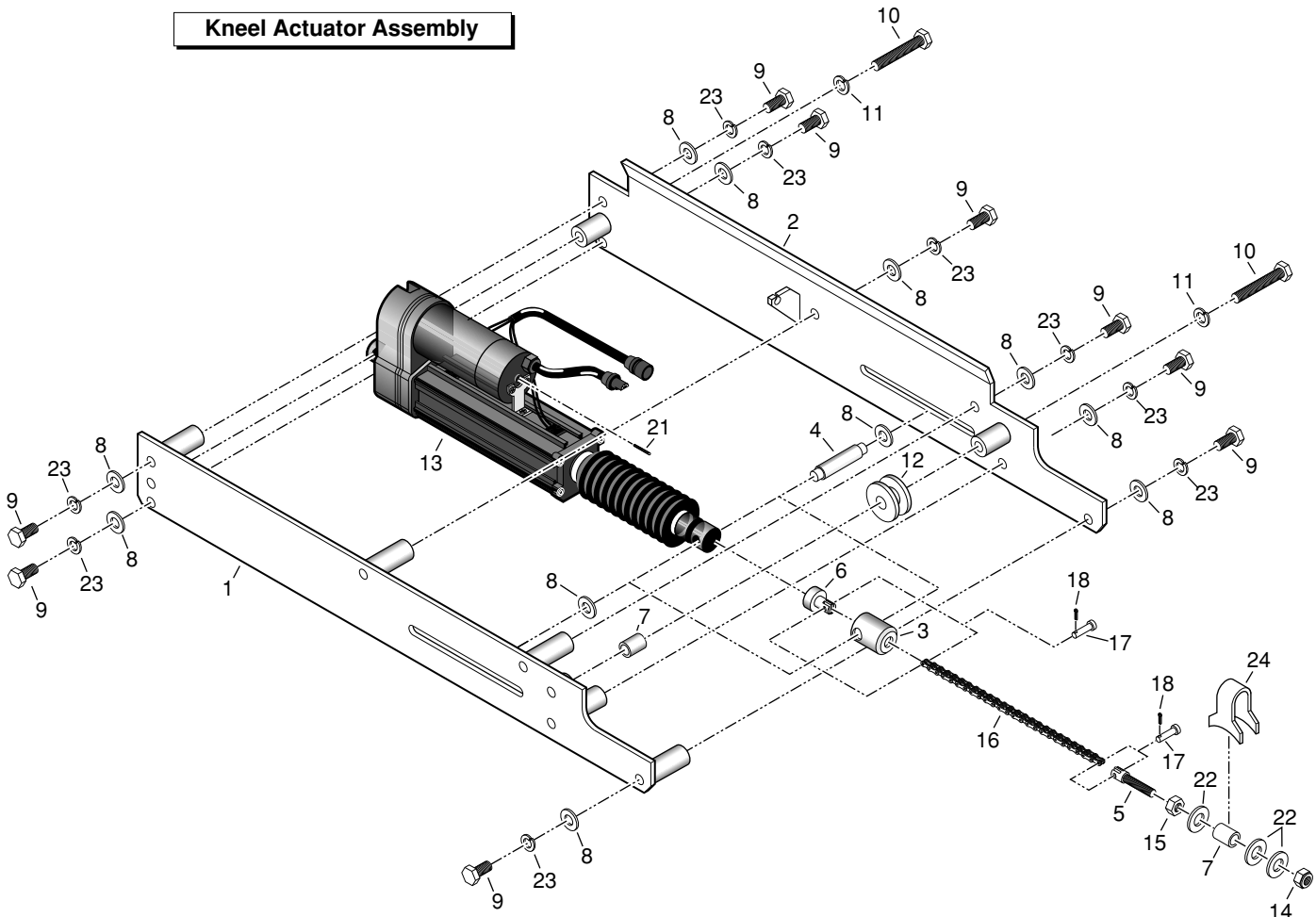
Repair Parts

Item	Qty.	Description	Part No.
1	1	Weldment, Actuator Mtg. Plate, Front	52030A
2	1	Weldment, Actuator Mtg. Plate, Rear	52031A
3	1	Weldment, Chain Adapter	52064A
4	1	Pin, Actuator Guide	65521
5	1	Chain Bolt, 4 x 4 x 7/16"-14 x 2.25	22868
6	1	Stud, Chain Attachment, 4 x 4 - .5P	52062
7	1	Tubing, 3/4" O.D. x .51" I.D. x 1.06"	13135R001
8	11	Washer, 3/8" Flat	10064
9	9	Bolt, 3/8"-16 x 1", Hex	10025
10	2	Bolt, 1/2"-13 x 3", Hex	10041
11	2	Washer, 1/2" Lock	10070
12	1	Pulley w/Bushing, Chain, Kneel, 4 x 4	51963A

Item	Qty.	Description	Part No.
13	1	Actuator, Kneel	51410
14	1	Nut, 7/16"-14, Hex Nylock	12895
15	1	Nut, 7/16"-14, Hex Jam	14414
16*	1	Chain, Leaf, 4 x 4 - .5 Pitch	21708R (11.5')
17	2	Pin, Cottered, 4 x 4 Leaf Chain	21759
18	2	Pin, Cotter, 1/16" x 3/4"	13713
19	1	Hose, 3/8" x 4", Polyethylene - not shown	15694R004
20*	1	Hose, 1/4" x 36", Polyethylene - not shown	11144R (36")
21	1	Rod, Threaded, #10-24 x 1"	19517R001
22	3	Washer, 1/2", Flat	10065
23	9	Washer, 3/8", Lock	10069
24	1	Mount, Chain Bolt	51714

* Raw material items ordered and priced per length (order specified length)

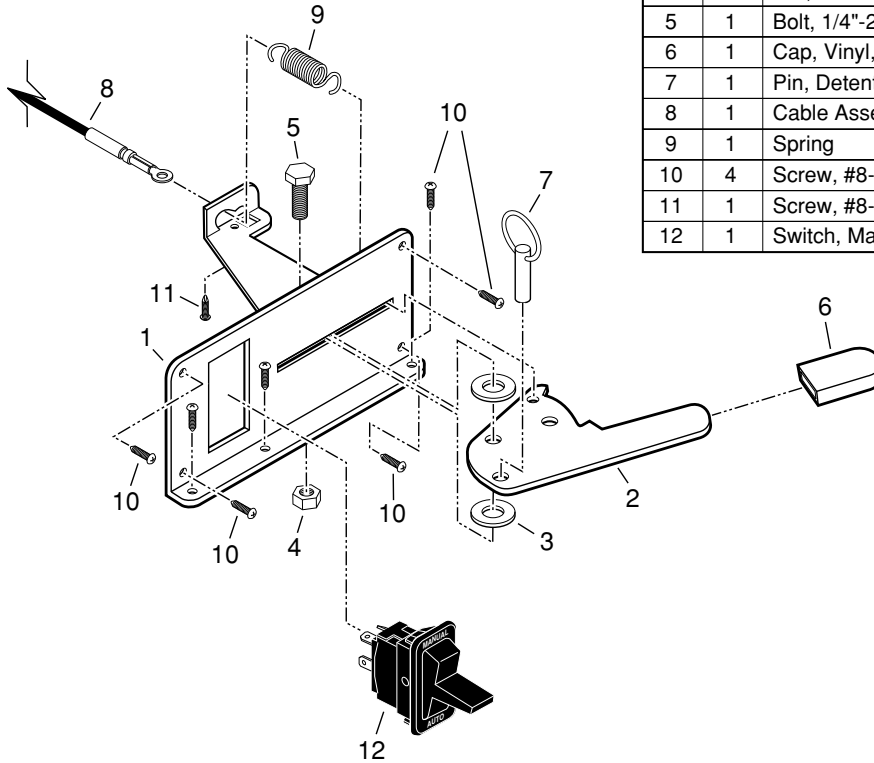
Kneel Actuator Assembly



**Note: Kneel Actuator
Manual Release Lever
Assembly exploded
view on opposite page.**

Repair Parts

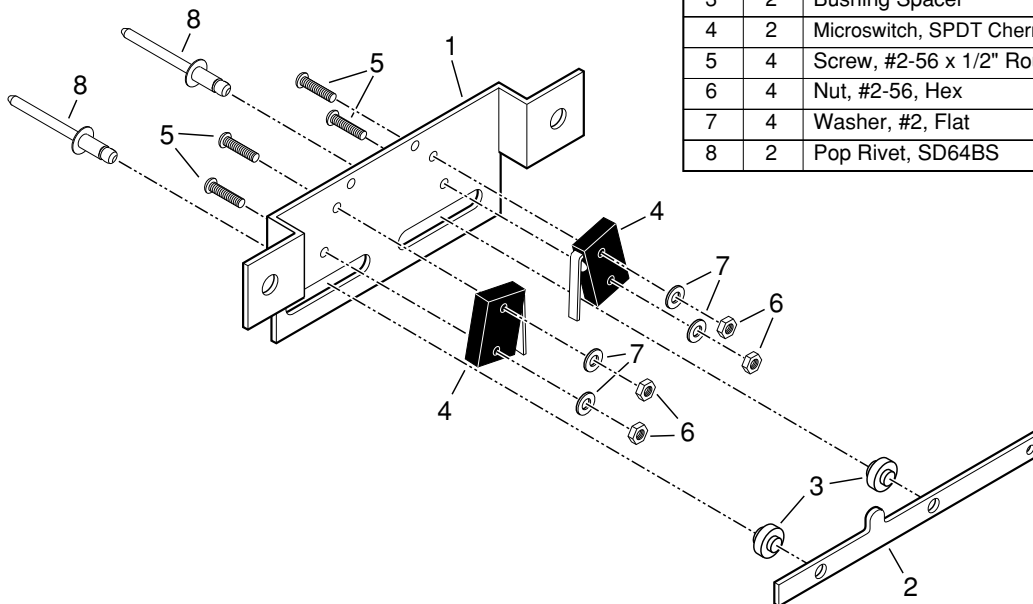
Kneel Actuator Manual Release Lever Assembly



Item	Qty.	Description	Part No.
1	1	Faceplate Weldment, Act. Man. Rel.	52013A
2	1	Handle, Manual Release	51366
3	2	Washer, Nylon	12690
4	1	Nut, 1/4"-20, Nylock	14614
5	1	Bolt, 1/4"-20 x 3/4", Hex	10970
6	1	Cap, Vinyl, Red	18238
7	1	Pin, Detent	21918
8	1	Cable Assembly	52003
9	1	Spring	21928
10	4	Screw, #8-18 x 3/4", PH/PHL SD SS	18144
11	1	Screw, #8-18 x 1/2", PH/PHL SD SS	18533
12	1	Switch, Manual- Auto	65215

Note: Kneel Actuator Assembly exploded view on opposite page.

Passenger Door Outside Key Entry Assembly



Item	Qty.	Description	Part No.
1	1	Plate, Microswitch Mount, Key Entry	52501
2	1	Slide Lever, Key Entry	52502
3	2	Bushing Spacer	52503
4	2	Microswitch, SPDT Cherry, WTRPRF	17952
5	4	Screw, #2-56 x 1/2" Round Head	17961
6	4	Nut, #2-56, Hex	17962
7	4	Washer, #2, Flat	21801
8	2	Pop Rivet, SD64BS	11513

Decals

⚠ WARNING

Replace missing, worn or illegible decals. Failure to do so may result in serious bodily injury and/or property damage.

The decals posted on your Entervan are shown by mounting location. Part numbers are provided for all decals. Inspect your Entervan regularly for any missing, worn or illegible decals. Call 1-800-THE LIFT for replacements.



Courtesy Requested
Decal #12375

Actual Size: 3" Wide x 4" Tall

Two Courtesy Requested decals are supplied with all Entervans to be posted on the vehicle as desired.

Remember — the Entervan is only as safe as the operator.

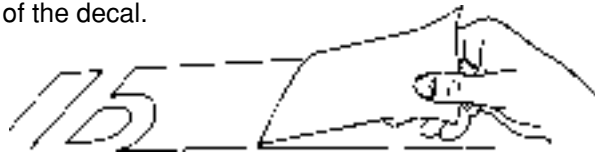
Decal Application Procedure

Clean "Mist-Grey" powder-coated surfaces (or painted surfaces) with isopropyl alcohol **before** decal application. Use a clean cloth or paper towels. **DO NOT** use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.

Note: Pay close attention to the **mask removal** procedure when posting die-cut decals.

Mask Removal

To remove the masking, start an edge and peel back slowly, at a sharp angle directly over the top of the decal.



Entervan Logo **Decal #51248**

Actual Size: 14" x 2-1/2"

Locations:

- Posted on driver's side door (top photo).
- Post on passenger's side door (bottom photo).

Die-Cut Logo Decal Application:

1. Thoroughly clean the area where decal is to be applied with grease and wax remover. Dry completely.
2. **Carefully** remove backing paper from decal, making sure all pieces remain attached to carrier (masking paper).
3. Position decal as shown in photos (align horizontally with door panel).
4. Using a plastic squeegee, firmly press the decal into place. Be certain all areas have been squeegeed thoroughly.
5. To remove the masking, start an edge and peel back slowly at a sharp angle, directly over the top of the decal as shown above.



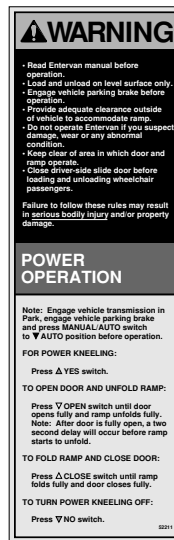
Decals



Warnings and Power Operation Instructions Decal #52211

Actual Size:
2-3/4" Wide x 8-9/16" Tall

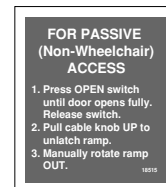
Posted on rear passenger-side interior
wall panel directly above ramp motor
assembly.



Passive Access Instructions Decal #18515

Actual Size: 2" Wide x 2-1/4" Tall

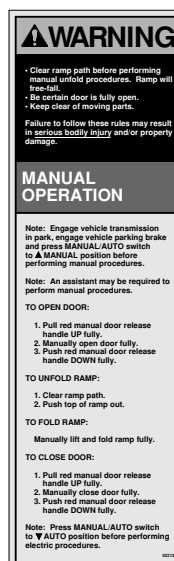
Posted on front slide door post interior wall
panel adjacent to the latch release knob.



Warnings and Manual Operation Instructions Decal #52212

Actual Size:
2-3/4" Wide x 9" Tall

Posted on interior vertical face of ramp
motor housing.



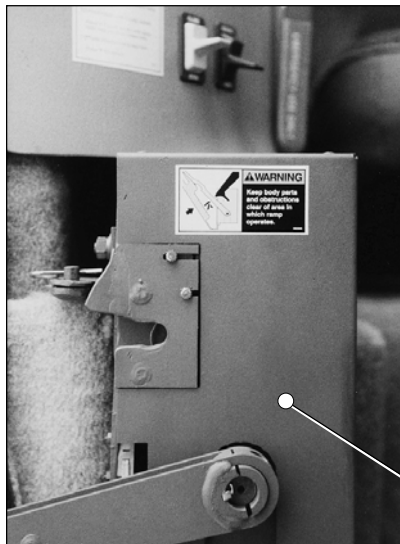
Decals



Kneel Actuator Manual Release
Decal #52215
 Actual Size: 2-1/2" Wide x 3-1/8" Tall



Posted above kneel actuator manual release lever assembly mounting bracket.



Ramp Motor Housing Cover

Warning, Ramp Hazard (Rear)
Decal #52206
 Actual Size: 3-1/4" Wide x 1-11/16" Tall



Posted on ramp motor assembly cover.



Power Slide Door Front Door Post

Warning, Ramp Hazard (Front)
Decal #52207
 Actual Size: 3-1/4" Wide x 1-11/16" Tall



Posted on power slide door front door post interior wall panel.

Decals



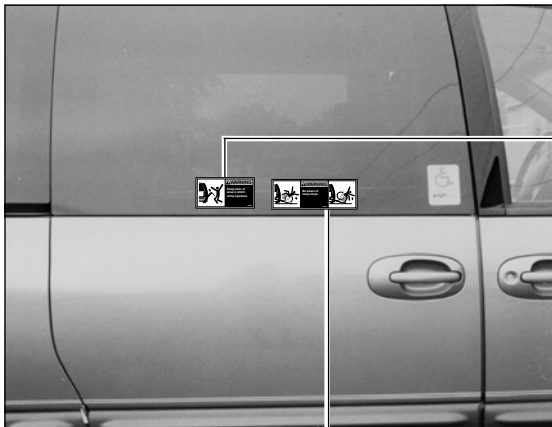
Driver's Side Slide Door Interior Panel

Warning, Close Slide Door
Decal #52208
 Actual Size: 4-5/8" Wide x 2-3/8" Tall



Posted on driver's side
 slide door interior panel.

Passenger's Side Slide Door

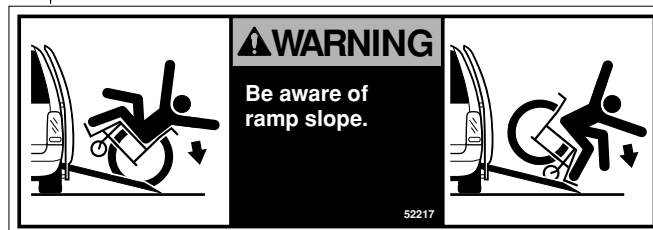


Warning, Ramp Clearance (Exterior)
Decal #52205
 Actual Size: 4-5/8" Wide x 2-3/8" Tall



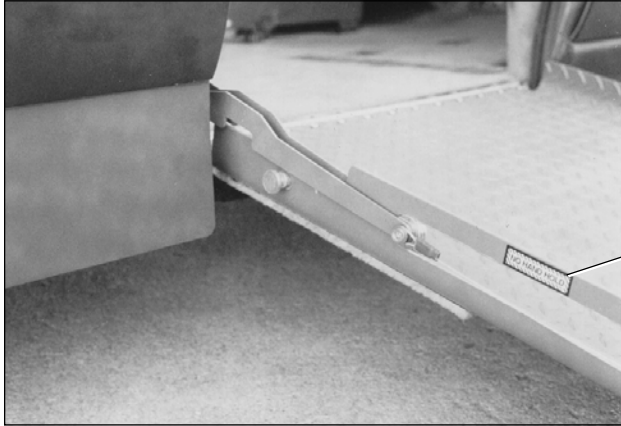
Posted on passenger's side power
 slide door window (outside).

Warning, Ramp Slope (Exterior)
Decal #52217
 Actual Size: 6-3/4" Wide x 2-3/8" Tall



Posted on passenger's side power
 slide door window (outside).

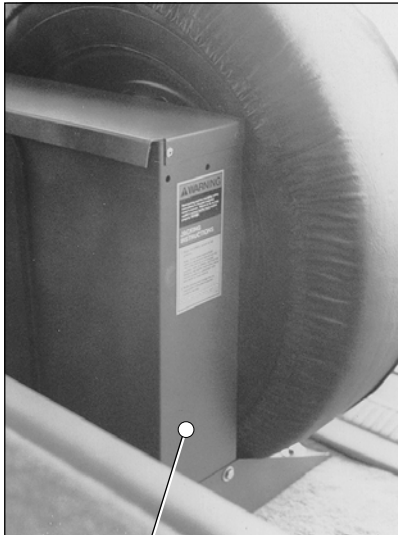
Decals



Caution, No Hand Hold
Decal #13832
 Actual Size: 2-11/16" Wide x 3/4" Tall

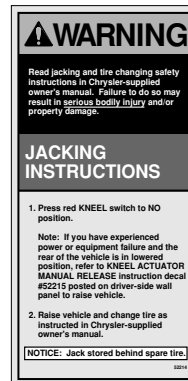


Posted on outboard face of
 ramp rear side plate (portion
 above bearing travel slot).



Tire Rack

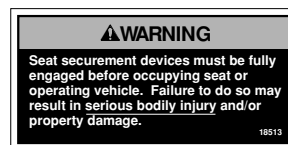
Jacking Instructions
Decal #52214
 Actual Size: 2-13/16" Wide x 5-1/2" Tall



Posted on driver's side end of tire rack.



Warning, Removable Front Seat
Decal #18513
 Actual Size: 3" Wide x 1-1/2" Tall



Posted on interior (inboard) face of seat base.
Typical for both front seats. Driver's side seat
 shown - passenger's side seat is mirrored image.

Decals



Notice, Jack Location
Decal #65234
 Actual Size: 1-1/4" Wide x 3/4" Tall

NOTICE
 Jack stored in
 spare tire rack.
 65234

Posted on removable electric panel
 access cover below panel latch handle.

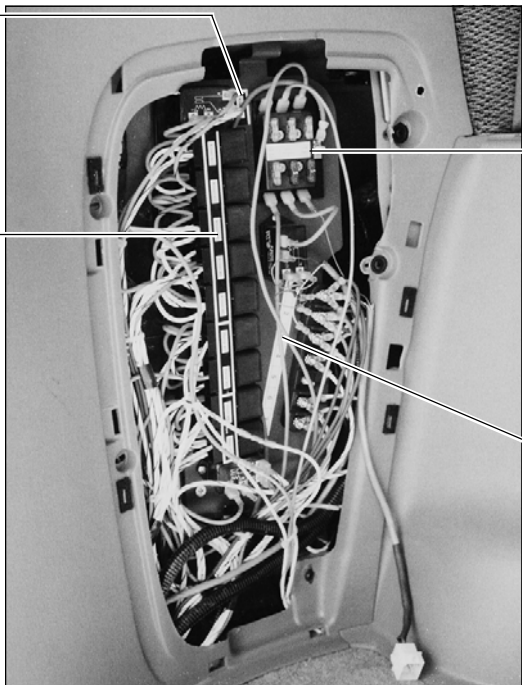
Posted next
 to time delay.



Note: Decal
 is cut in two
 sections for
 placement.

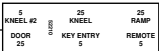


Posted on
 relay blocks.



Harness & Fuse Panel #52911A96-03

Fuse Labels
Decal #52216
 Actual Size:
 1-5/8" Wide x 1/2" Tall



Posted on rear
 fuse block.

Relay Labels
Decal #65240
 Actual Size:
 5/8" Wide x 11-3/4" Tall

Terminal Labels
Decal #18532
 Actual Size:
 1/2" Wide x 5-5/8" Tall



Posted on electric panel
 adjacent to terminal block.

Specifications

The following specifications are basic to the 1996 and newer Chrysler Entervan II.

☐ **Weight:**

- Overall Weight of Stock Van (depends on type of van): Approximately 4050 pounds
- Conversion Add-On Weight (depends on type and options): Approximately 350 pounds

☐ **Power source is 12 VDC battery with negative ground.**

☐ **Electromechanical Kneeling System incorporating:**

- Factory (OEM) Chrysler leaf springs
- Heavy-duty weatherproof linear actuator with sealed proximity switch activating the actuator electric brake
- Industrial four-leaf roller chain
- On/Off Switch
- Electrical override

☐ **Power Door Motor:**

- Type: Permanent Magnet
- 12 VDC
- Maximum Speed - 105 RPM
- Maximum Torque: 120 inch pounds at 10 RPM
- Approximately 1/50 Horsepower
- Manual release (override)

☐ **Power Ramp Motor:**

- Type: Permanent Magnet
- 12 VDC
- 3 RPM
- Torque: 1100 inch pounds
- 1/17 Horsepower
- Manual release (override)

The performance data contained within the **Operations Cycle Times Chart** provides general performance criteria. This information is compiled from tests conducted on **standard** Fully Automatic Series **03** 1996 and newer Chrysler Entervans meeting the following **constant** operational specifications.

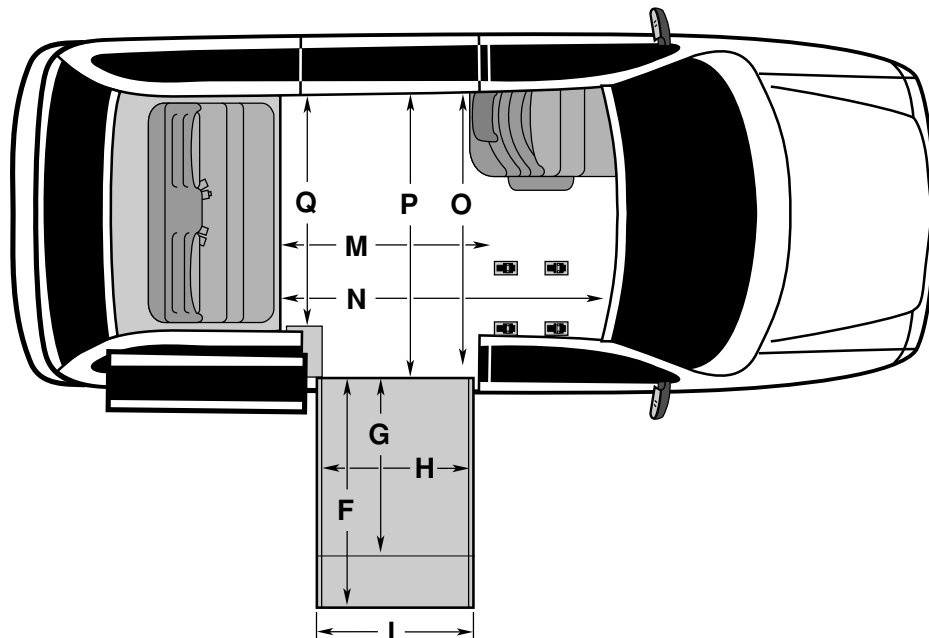
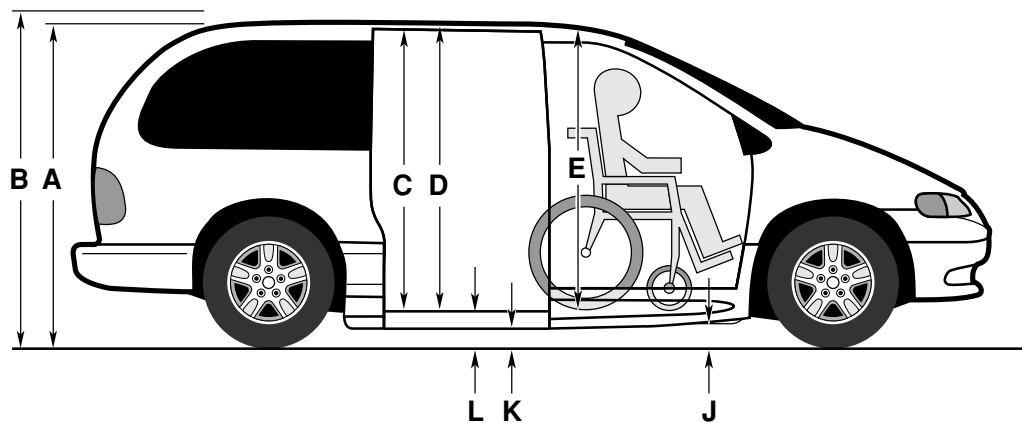
Operational Specifications:

- Environmental temperature of 72° F. Extremely low temperatures can moderately affect cycle time.
- Fully charged 12 volt DC power source. Low voltage will moderately affect test results.
- Door and ramp cycles timed with vehicle in kneeled (lowered) position.

Operations Cycle Times		
Operation		Duration (Min. to Max.)
Kneel (Down)	Actuator Run Time	9.14 sec. to 12.35 sec.
	Lower Time only	5.57 sec. to 7.12 sec.
Door Open		9.06 sec. to 9.73 sec.
Ramp Unfold	Motor Run Time only	2.50 sec. to 3.60 sec.
	Fully Deployed	6.86 sec. to 13.79 sec.
Ramp Fold		4.23 sec. to 4.96 sec.
Door Close		8.78 sec. to 9.54 sec.
Kneel (Up)	Actuator Run Time	8.82 sec. to 11.00 sec.
	Raise Time only	4.62 sec. to 6.03 sec.

Dimensions

Dimension Description	Chart Reference	Dimension
Overall Height of Van	A	68-3/8"
Overall Height of Van with Luggage Rack	B	71"
Door Opening Usable Height (Slide Doors)	C	52-3/4"
Interior Height at Center of Van	D	57-1/2"
Interior Height at Driver and Passenger Position	E	56"
Ramp Length	F	52-1/2"
Ramp Length (First Section Only)	G	38"
Ramp Width (Usable Clear Opening)	H	28-3/4"
Ramp Width	I	30-1/2"
Ground Clearance at Frame	J	5"
Ground Clearance at Slide Doors	K	4-5/8" Raised & 3-1/2" Lowered
Height at Floor	L	9" Raised & 7-3/4" Lowered
Interior Floor Length (Flat Ramp Area)	M	47"
Overall Interior Floor Length	N	80"
Interior Width Behind Driver's Seat	O	55"
Interior Width at Middle of Ramp	P	65-1/2"
Interior Width (to Ramp Motor)	Q	57-1/2"



Warranty

☐ In accordance with the Chrysler 7 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 7 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 Chrysler warranty information booklet for all Chrysler OEM (factory) limited warranty details.

Years/Miles in Service	Specific Area Covered
36 Months or 36,000 Miles (whichever comes first)	Entervan frame and floor structural components Entervan ramp, door and associated structural components Entervan electrical components including but not limited to switches, relays, connectors and solenoids Entervan electromechanical kneel systems including but not limited to electric actuator, chain, pulleys and associated hardware Entervan appearance items including but not limited to interior floor covering and slide door lowered extension assemblies.
7 Year or 100,000 Miles (whichever comes first) Corrosion Warranty see *Exceptions at right	Corrosion Warranty: 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. * 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.

☐ Both the 7 year/100,000 mile corrosion and the 3 year/36,000 mile warranties described above 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

Warranty

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.

☐ 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.

Return Authorization Procedure

All parts under warranty must have a yellow return authorization tag attached before returning the part for credit. A return authorization tag must be attached to every item and returned, freight prepaid, to The Braun Corporation. Yellow tags will be sent along with the new replacement part. The authorization of yellow tags allows us to expediently give

you proper credit for warranty. The return authorization tag must be filled out with the appropriate Entervan model number, series numbers and serial number. The Entervan identification decal containing the identification information is located on the driver's door jamb. When filling out the yellow tag, please describe the problem briefly.

RETURN AUTHORIZATION TAG Items below MUST be completed before credit will be issued

Returnee Name _____
 Account # _____
 Replacement Invoice # _____
 Entervan # _____
 Example: 5200096 - 03 - 1203 - 02 - 02 - 1 This number will be located at driver side door jamb area
 Mfg. Date _____
 Brief description of problem _____

**Sample:
Return Authorization Tag**

Date Received _____
 Authorized By _____

The Braun Corporation
 1014 S. Monticello Street
 P.O. Box 310
 Winamac, IN 46996

Attn: _____
 (219) 946-6153

ENTERVAN

**Sample:
Identification Decal**

Vehicle Identification Number _____
 Entervan Model Number _____
 Engineering Series Number _____
 Serial Number _____
 Engineering Ramp Series Number _____
 Door Operator Series Number _____
 Entervan Date of Manufacture _____

THE BRAUN CORPORATION
 1014 S. MONTICELLO P.O. BOX 310 WINAMAC, IN 46996 219-946-6153

VIN # 1B4GP54R4TB154992
 ENG. SERIES 03 SERIAL 1203
 MFG 07/20/96 ENG. RAMP SERIES 02
 PAINT CODE INT - DIU35799
 KNEELING 1 EXT - DBU5069

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and Distributors Worldwide**

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International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT (219) 946-6153 FAX: (219) 946-4670

Braun Chrysler Entervan® Limited Warranty

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 Braun 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 address listed below.

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Note: See Warranty section within manual for detailed warranty coverage chart.



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MADE IN
AMERICA

All illustrations, descriptions and specifications in this manual are based on the latest product information available at the time of publication. The Braun Corporation reserves the right to make changes at any time without notice.

September 1996

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**August 1998
Revision**

ENTERVAN
THE BRAUN CORPORATION