



OWNER'S MANUAL

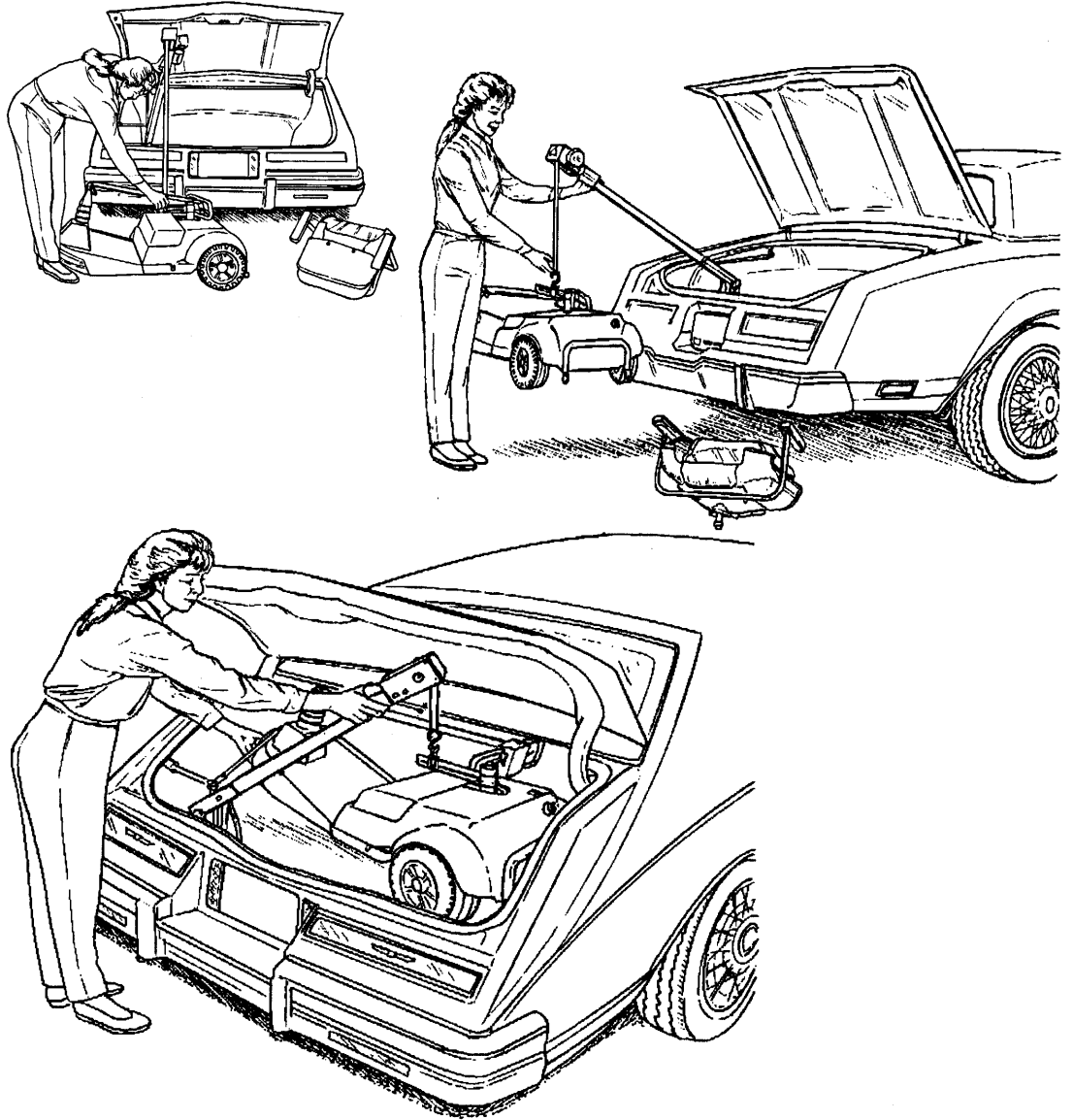


AMIGO MOBILITY INTERNATIONAL, INC.

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LIFT-ALL[®]

Compact Lifting System

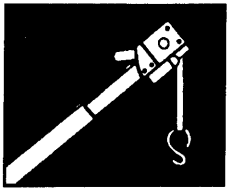


Serial Number _____

Date of Purchase _____

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A Word to Lift•All® Owners

Thank you for purchasing the adjustable Lift•All®.

This manual will provide you with an understanding of the features, operation, and maintenance of your Lift•All®. Instructions for the safe and reliable use are also contained in this manual. Please read it completely before operating the lift.

The Lift•All® is a compact lifting unit. Specially designed, it will assist you in the loading of your Amigo or other three-wheeled platform mobility aids into the rear storage area of your vehicle.

The Lift•All® system is easily controlled and powered by your vehicle's battery. When not in use, it folds down securely and is stored out of the way.

Later, if you purchase another car, your Lift•All® can be easily reinstalled, generally without damage or depreciation to the original vehicle.

THE LIFT•ALL® IS NOT TO BE USED FOR LIFTING ANY OBJECT WEIGHING MORE THAN 200 POUNDS (90.7 kg).



Warranty Registration

It's important to make sure your Lift•All® is covered under the Amigo Limited Warranty by mailing in your Warranty Registration Card. The card is located on the front cover of this manual.



Safety Suggestions

- 1) Become familiar with your Lift•All® and your Operating Manual instructions before operating.
- 2) Do not attempt to lift any three-wheeled mobility aid or other object weighing more than 200 pounds (90.7 kg). Overloading could cause damage to the car trunk and/or your Lift•All®.
- 3) Always load and unload on a level surface.

4) After loading your mobility aid into the trunk, make sure no objects come in contact with the electrical switch on top of the boom. Inadvertent operation of the Lift•All® motor in the stored condition could damage the unit.

5) Keep hands and fingers clear of the lower boom assembly. Use the black handle on the latch hook assembly to engage or disengage the hook assembly.

6) Be sure the forged hook is securely latched to the boom inner end before attempting to lift anything.

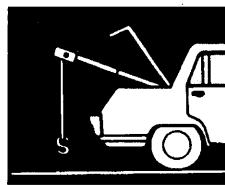
7) Keep fingers and hands away from the lift S-hook, lift strap webbing, pulley, and other moving parts while operating your Lift•All®.

8) Turn off the electric power switch on your three-wheeled mobility aid before loading it into the trunk.

9) Lock the parking brake on your three-wheeled mobility aid when it is in the trunk.

CAUTION

When loading and unloading, keep your legs and feet clear of the underside of the mobility aid. In the unlikely event of the mobility aid falling to the ground, injury could result if you are under the lifted mobility aid.



Customized Adjustment Features

The Lift•All® can be adjusted to load many types of three-wheeled platform mobility aids into a variety of vehicles. These adjustment features must be considered when planning for the placement of the Lift•All® prior to installation (Figure 1).

• EXTENDABLE LIFT BOOM

This provides for adjusting the boom length from 32 inches (81.28 cm) to 42 inches (106.68 cm). Simply loosen the set screw (#16) and slide the boom extension (#48) inside the lower boom (#19) until the correct length is obtained, which is when the hole on top of the inner boom is exposed and the set screw (#16) is tightened securely.

CAUTION

Do not extend the boom beyond the hole of the boom extension.

• HEIGHT ADJUSTMENT

This enables you to raise the pivot tube (#25) from a minimum height of 12.87 inches (32.68 cm) to a maximum height of 20.5 inches (52.07 cm). Adjust by placing the anchor clamp (#31) as needed.

• BOOM ANGLE ADJUSTMENT

This provides for adjusting the boom angle from horizontal to 49 degrees by turning the latch hook (#5). When the angle is set, tighten the nut on the latch hook.

Custom Adjustments

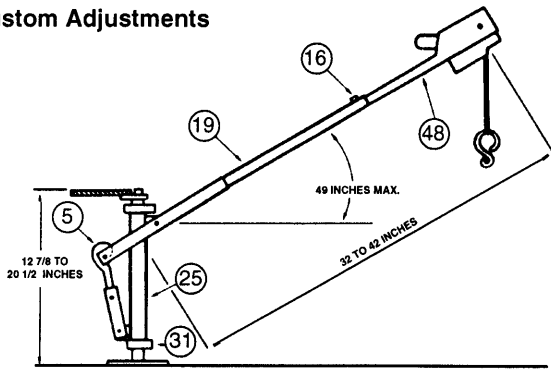
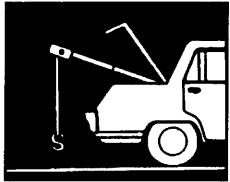


Figure 1



Installation Instructions for Vehicles with Trunks

For vans or station wagons see page 7.

We recommend you have your Lift•All® installed by your local mobility center or a reputable automotive or body shop.

The objective of the installation is to provide a strong level attachment for the base plate and positioning which allows adequate clearance for lifting operations and storage.

PLEASE READ ALL INSTRUCTIONS BEFORE OPERATING LIFT•ALL®.

• LOCATING THE MOUNTING POSITION

Locate a flat metal area at the left rear corner of the trunk. You will need adequate space on the underside of the trunk floor to accommodate the four screws to secure the base plate of the lift (Figure 2).

Position the post assembly (#1, Figure 2) as close to the rear of the vehicle as possible (minimum 4 inches/10.16 cm). Allow enough room for the boom assembly to swing out of the rear of the open trunk to a position 90 degrees relative to the rear bumper. The base plate of the post assembly may be turned for better fit and level mounting. Trunks with narrow lateral openings may need extra space between rear of trunk and mounting bracket.

The post assembly should also be close to the side of the trunk wall (minimum 6 inches/15.24 cm). Allow adequate clearance for the latch hook (#5, Figure 1) as the boom is rotated. This will provide more room for maneuvering the three-wheeled mobility aid into the trunk.

With the post assembly in the preferred position, the distance from the center of the post to the opposite trunk opening must be at least 36 inches/91.44 cm, to accommodate the boom when it is folded for storage.

With the lift in the preferred location, measure the distance from the mounting plate to the lower lip of the trunk opening. There should be at least 17 inches/43.18 cm of the vertical distance to insure adequate clearance between the closed trunk lid and the lift when folded in the stored position.

NOTE: Check the location of the support ribs on the underside of the trunk lid to make sure that the stored lift will have adequate clearance. Be sure the area beneath the floor is clear of pipes, tubing, and electrical wiring. Note the location of the gasoline tank and STAY CLEAR!

When all clearances are satisfactory, mark the position of all four mounting holes in the post mounting plate on the floor of the trunk.

Trunk Mounting Position

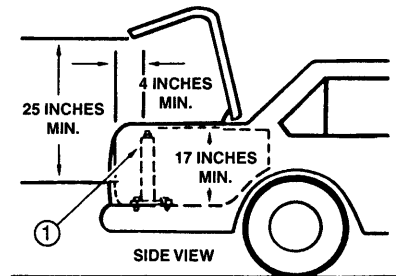
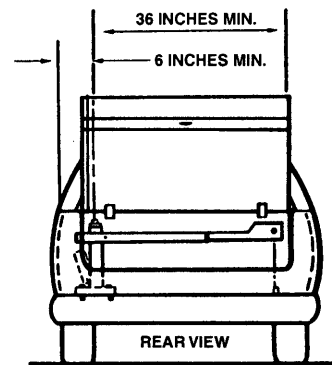


Figure 2



Mounting the Lift•All® in Passenger Vehicles

Drill four 3/16-inch (4.8 mm) diameter holes through the trunk floor as previously marked (Figure 3).

⚠ WARNING

Before drilling any holes through the trunk floor, note the location of the gasoline tank and STAY CLEAR!

Screw the post plate to the floor using the self-tapping screws supplied. Check the post to make sure it is vertical and does not lean to one side. Shim under the base plate if necessary, with washers, and tighten all screws securely.

• INSTALLING UPPER SUPPORT BRACKETS AND RODS

The post assembly must be braced at the top to prevent flexing when picking up a three-wheeled mobility aid with the boom. Two support rods (#14) must be connected to the front and side of trunk lip, as shown on Figure 4, or to other suitable support areas. L-brackets (#10) are used to make these necessary connections (See bracket installation).

• HEIGHT ADJUSTMENT

Adjust the height of the outer tube pivot assembly (Figure #1) to provide proper boom rotation and clearance. Loosen the anchor clamp (#31) and slide the outer tube pivot assembly to the required height (approximately the same height as the left side lip of the trunk opening).

Lightly tighten the screw in the anchor clamp (#31) so that it fits tightly against the post.

• BRACKET INSTALLATION

Using a straightedge, mark the position of the hole to be drilled in the side trunk lip for installation of an L-bracket. Repeat for installation of the front trunk L-bracket.

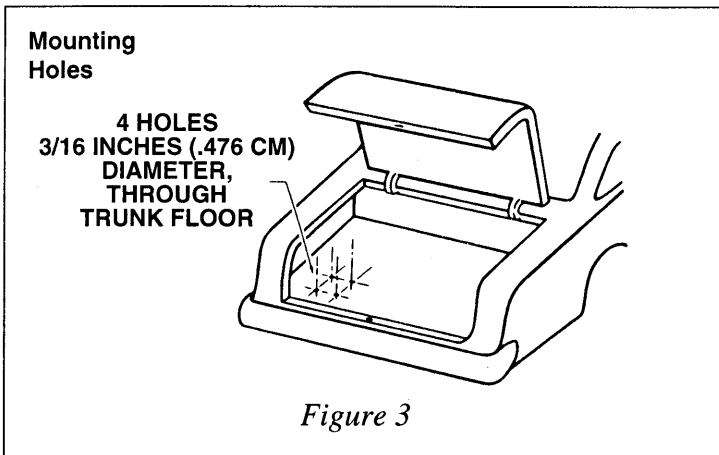


Figure 3

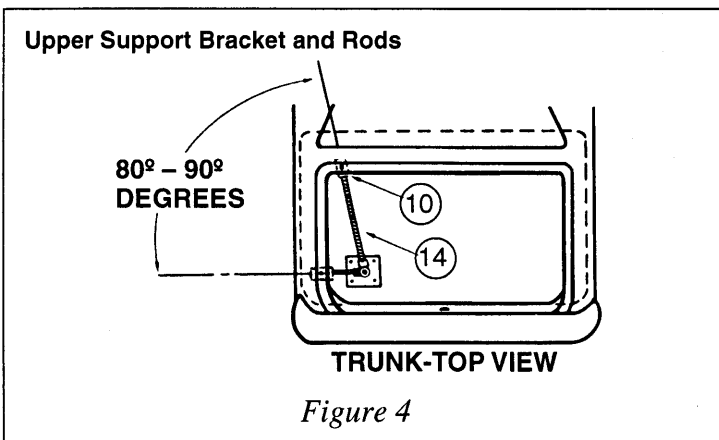


Figure 4

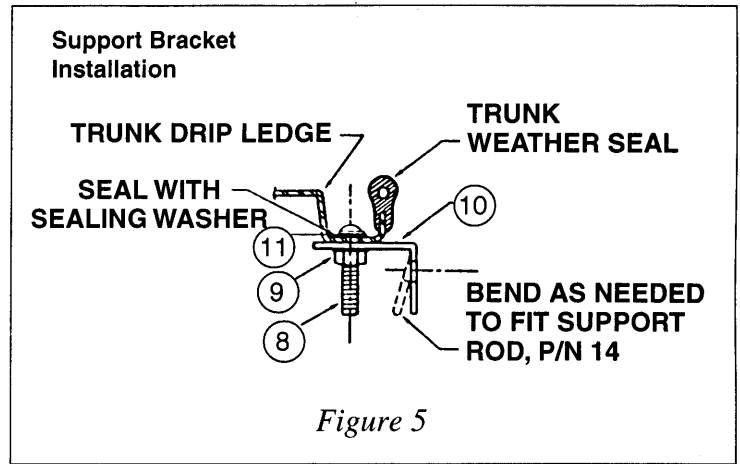


Figure 5

Drill two 1/4-inch (.635 cm) diameter holes through the trunk drip ledge in the positions marked (Figure 4). Loosely install an L-bracket (#10) at each location using a screw (#8), washer (#11) and a locking nut (#9, Figure 5).

• SUPPORT ROD CUTTING

Supplied with your lift is a support rod (#14, Figure 6) consisting of a 7/16-inch/1.11 cm diameter threaded rod and a plate at each end. This rod can be cut to provide a side support and a front support rod. The rod should not extend past the screw mounting the L-bracket.

First, measure from the center of the post assembly (#1, Figure 2) to the face of the L-bracket (#10, Figure 5) on the trunk side drip ledge. Next, measure the same distance from the center of the hole in one end of the support rod, add 5/8-inch (1.59 cm) and mark. Cut threaded rod at place marked and remove any burrs with a flat file. Thread a nut over the rod end, about 1-1/2 inches (3.81 cm) from the end.

To make the front support rod, repeat the above procedure, measuring the L-bracket on the trunk front drip ledge.

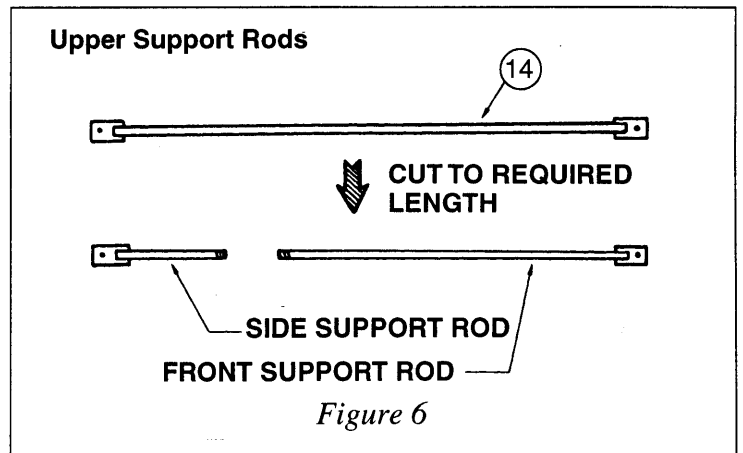


Figure 6

• SUPPORT ROD INSTALLATION

Remove the shoulder screw and the top washer from the pivot tube assembly (#25, Figure 1). Insert the side and front support rods through the holes in the appropriate L-brackets (#10, Figure 5).

Line up the holes in the ends of the support rods with the center hole in the pivot tube assembly (#25, Figure 1). Then reinstall washer and shoulder screw and tighten.

Install a second nut on the end of each support rod (#14) and tighten both jam nuts until each rod is securely fastened to the bracket.

Supplied with the lift is a plastic piece of wire loom 36 inches (91.44 cm) long. This can be measured and cut to fit over the two rods to protect other objects in the trunk.

• INSTALLING THE BOOM HOLD-DOWN

⚠ WARNING

Before drilling any holes through the floor in the rear of the vehicle, note the position of the gas tank and STAY CLEAR!

Drill a 11/32-inch (8.7 mm) diameter hole in the floor directly under the spool when the boom is folded down for storage, parallel to the rear door (See Figure 8 on page 13).

Install the supplied eye bolt through the above hole. Thread a nut on the eye bolt on the underside of the floor and tighten securely.

Now, lower the boom assembly into the storage position and adjust the shock cord hook to the proper length to hold the boom down. To adjust the length of the shock cord, loosen the knot on the hook end of the cord and move it away from the end of the cord until appropriate length is reached. Tighten the knot securely and firmly place the hook over the knot. Remove any excess shock cord.

NOTE: The shock cord must be adjusted to the proper length to keep the boom assembly from moving freely to avoid damaging the Lift•All® or the trunk lid.



Installation Instructions for Vans, Trucks and Station Wagons

Installation of Lift•All® in vans and station wagons or other vehicles where adequate structure for support rods (#14) is not available may require support bracket (#58, on enclosed Parts List).

• LOCATING THE MOUNTING POSITION

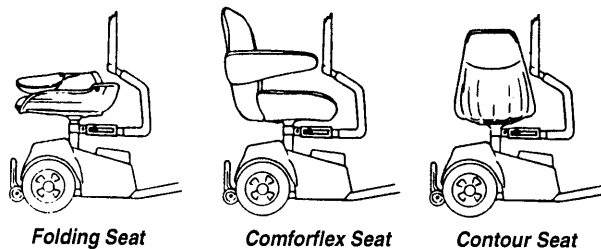
Locate a flat metal area of the vehicle floor in the rear corner. Position the support bracket (#58) 6" (15 cm) min. as close to the rear door and inside wall as possible without interfering with the door operation. Use the left hand support bracket for left rear corner mounting and the right hand support bracket for right hand corner mounting. Allow a minimum of three inches (7.6 cm) of space between inside base panel of the vehicle's door or tailgate and the round post of the support bracket. Select and mark one hole in each of the three

PROPER SEAT POSITIONING WHEN USING THE VAN "C" ATTACHMENT

Folding Seat – face seat 180 degrees away from attachment

Comfortflex Seat – face seat directly towards attachment

Contour Seat – face seat 90 degrees away from attachment



mounting positions. Check the underside of the vehicle to be sure that the holes are accessible and will not interfere with any structural members. **NOTE: For maximum support, try to use the mounting holes closest to the end of the tube.**



Mounting the Lift•All® in Vans, Trucks and Station Wagons

⚠ WARNING

Before drilling any holes through the floor of the trunk, note the position of the gas tank and STAY CLEAR!

Note: Refer to Figure 3 on page 6.

Drill three 1/4-inch (6.4 mm) diameter holes through the floor of vehicle as previously marked. Place a screw through the cone washer and the proper hole in the support bracket and the floorboard. One large flat washer should be placed over the screw below the floor. Install and tighten securely the hex nut. Repeat the procedure with the other two mounting screws.

Install the pivot tube assembly (#39) over the round tube on the support bracket. Set the coupling of the connector (#64) over the square tube of the support and install screw and nut.

Tighten fasteners securely so that there is no play between support bracket and the Lift•All® assembly.

• VAN BRACKET VERTICAL HEIGHT ADJUSTMENT

Adjust height by removing the 5/16" screw #5567 (See exploded diagrams and parts list) and raising the connector weldment #5660 to the desired height; replace and tighten the screw. The screw #5567 should be completely inserted through the hole in the connector weldment and the van bracket upright tube.

• INSTALLING THE BOOM HOLD-DOWN

⚠ WARNING

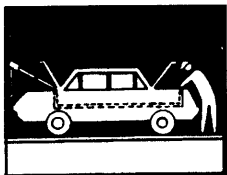
Before drilling any holes through the floor in the rear of the vehicle, note the position of the gas tank and **STAY CLEAR!**

Drill a 11/32-inch (8.7 mm) diameter hole in the floor directly underneath the spool when the boom is folded down for storage, parallel to the rear door (See Figure 8 on page 9).

Install the supplied eye screw through the above hole. Thread a nut on the eye screw on the underside of the floor and tighten securely.

Now, lower the boom assembly into the storage position and adjust the shock cord hook to the proper length to hold the boom down. Remove any excess shock cord.

NOTE: The shock cord must be adjusted to the proper length to keep the boom assembly from moving freely to avoid damaging the Lift•All® or the trunk lid.



Electrical Installation for all Vehicles

Note: Refer to the Electrical Wiring Diagram on enclosed Parts List.

⚠ WARNING

Disconnect your vehicle battery before starting the electrical installation.

Route the red wire assembly (#72) from the engine compartment through the vehicle into the trunk area. Connect the wire to one end of the circuit breaker. Then crimp the ring terminal to the wire in the engine compartment and the insulated, quick-disconnect terminal to the end in the trunk compartment, trimming the wire to proper length while allowing a little extra for play.

The booster battery bolt (#70) provided replaces the bolt holding the positive (+) battery lead to the battery. Next, attach the ring terminal to the battery bolt and tighten securely. Install the fuse provided in the fuse holder. Keep the extra fuse in a safe place in case it is needed.

Install the wire loom over the red power wire assembly from the battery to the fuse holder, and from the fuse holder to the firewall. Use a ty-rap to secure the wire assembly out of the way.

• ON CARS

Attach the black ground wire assembly from the boom to the side L-bracket (#10, Figure 5), using the screw and keps nut.

• ON VANS & STATION WAGONS

Connect the black ground wire assembly from the Lift•All boom to the vehicle chassis with the self-tapping screw provide.

Note: Make sure the ground attachment point is clean and free from paint, oil and carpeting before attaching the ground wire.

Install wire loom over the red power wire assembly from the quick-disconnect terminal to the trunk wall.

Connect the insulated terminals at the ends of the two red power wires in the trunk compartment.

• INSTALLATION OF LIFT ARM ASSEMBLY

The Lift•All® is designed to pick up your three-wheeled mobility aid using a lift arm attached to the seat post (Figure 7).

⚠ WARNING

Make sure your seat post is securely mounted to your vehicle platform.

A support collar has been added to the lift arm bracket. After placing the lift arm bracket over the seat post, you must fasten the support collar first by inserting both 1/4-20 x .312 long set screws into the support collar and using a 1/8" Allen wrench to tighten down the set screws securely against the seat post. Resume with the following instructions to tighten down the spacers.

Provided are two spacers, two bolts, two nuts, two washers and two set screws that are used in assembling your lift arm. *Note: Refer to the enclosed Lift•All® Parts Diagram.*

Permanently secure the lift arm (#44) one inch below the top of the seat post (Figure 7), extending toward the front of the vehicle. Insert both set screws (#50) into the rear of the lift arm and tighten the set screws against the seat post. Place one spacer (#45) inside the lift arm bracket, aligning the center with the first mounting hole. Insert one of the bolts (#48) through the bracket and spacer, and fasten with one of the nuts (#47) (#1, Figure 7a). If you have a power seat lift which electronically raises and lowers your seat, be sure the lift arm assembly (#44) is mounted on the outer tube, NOT on the inner moveable tube, and the top of the bracket is 3/8 inch (.95 cm) above the outer tube (Figure 7b).

After installing the lift arm on the seat post, take the second bolt (#48) and place a washer (#46) on it. Place your second spacer inside the lift arm aligning the center with the adjustment slot. Thread the bolt through the arm and spacer, and then place the second washer over the bolt. Fasten the bolt with the second nut.

Adjust this second spacer over the estimated center of the weight of the vehicle and tighten securely (#2, Figure 7a). Next, raise the Lift•All® boom to the operating position, and swing out over the rear trunk opening. (Refer to section "Operating your Lift•All®," on page 9.)

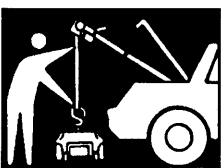
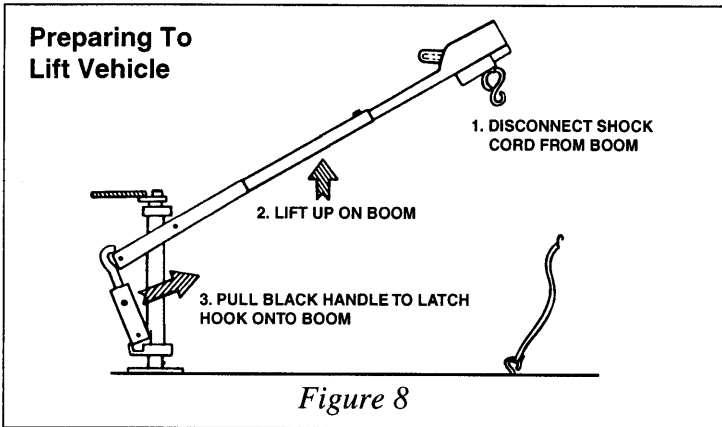
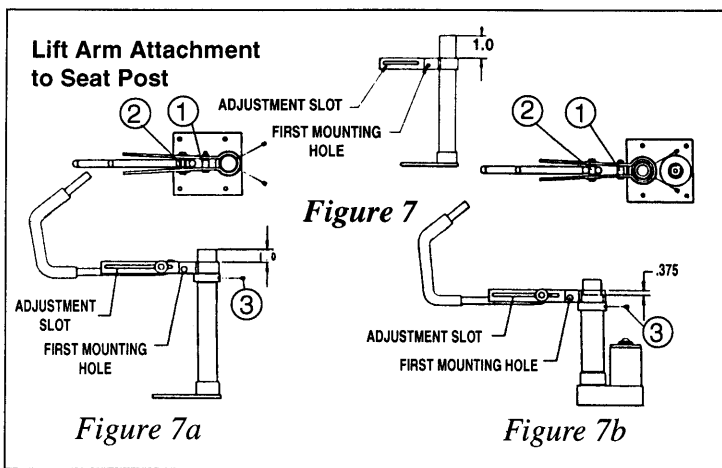
Lower the boom S-hook and attach it to the lift arm assembly (#2, Figure 7a). Raise your three-wheeled mobility aid

off the ground 2-3 inches (5.08 - 7.62 cm) and observe whether it is level. If not, lower the mobility aid and relocate the second spacer along the adjustment slot until the mobility aid is level.

• LIFT BRACKET INSTALLATION (OPTIONAL)

The optional lift bracket (#42) can be used in vans or station wagons to lift the entire PMA without removing the seat and/or handle. It is installed in place of the standard S-hook (#41).

To attach the lift bracket (#42) to the lift webbing, remove the button head screw and one retaining collar (#43) from the tube. Place the tube through the loop in the webbing and position the webbing directly over the J-hook on the other end of the lift bracket. Reinstall the set collar and the button head screw and tighten the screws securely.



Operating Your Lift·All®

⚠ CAUTION

Upon raising your lift strap, make sure that the top of the S-hook does not go past the bottom of the strap enclosure. Keep strap twisting to a minimum. Before lifting your mobility aid, make sure the end of the "S"-hook is completely engaged around adjustment spacer. (Figure 7a, No. 2 adjustment spacer.)

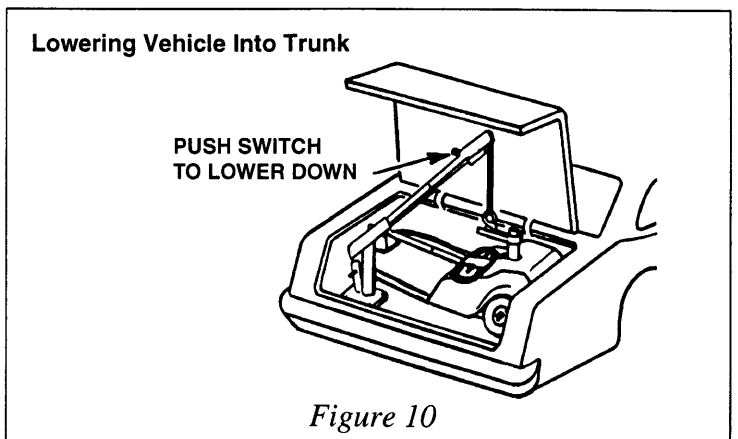
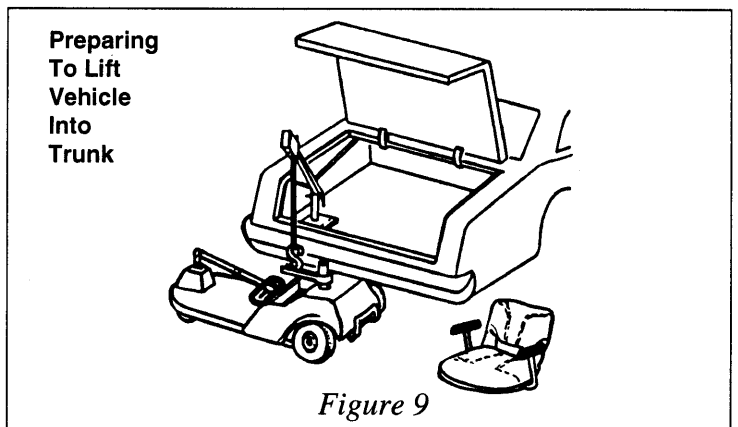
• STEPS TO LOADING PMA INTO TRUNK

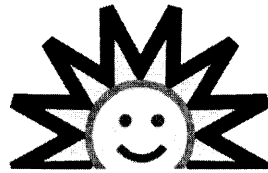
- 1) Unhook the shock cord from the end of the boom. Lift the boom until you can latch the S-hook over the 1/2-inch (1.27 cm) diameter bolt at the boom inner end using the black handle (Figure 8).
- 2) Park your three-wheeled mobility aid close to the car, parallel to the rear bumper. Remove the seat from the PMA. Remove or fold down the drive handle of the PMA.
- 3) Swing the boom out until the boom outer end is over the lift arm attached to your seat post. Push DOWN on the electrical switch located at the boom outer end to lower the S-hook. Attach the S-hook to the adjustment spacer (Figure 7a, No. 2) on the lift arm. Make sure the lift strap webbing is straight and not twisted (Figure 9).
- 4) Press UP on the electrical switch until your mobility aid wheels clear the top edge of the trunk opening. Steady the mobility aid with your hand as it is lifted.

⚠ WARNING

While lifting your PMA, make certain that your hands are clear of the S-hook. Make sure the top of the S-hook does not go past the bottom of the strap enclosure and that the S-hook is completely engaged in the bar.

- 5) Slowly swing the boom toward the side of the trunk and turn the suspended mobility aid so it will clear the sides of the trunk.
- 6) Press DOWN on the electrical switch and slowly lower your mobility aid onto the floor of the trunk guiding it with your other hand (Figure 10).





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• J. Allen, Louisiana

"My dependency on others is drastically reduced using the TravelMate™. With a little practice, I have been able to open doors, negotiate elevators, and handle crowds. With the battery removed, it is lightweight so loading and unloading it from a vehicle is easy. Its compact size allows me to carry it in the trunk of any car."

• R. Graham, Idaho

Just Fold 'n Go!



AMIGO MOBILITY INTERNATIONAL, INC.

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