Read manual thoroughly before attempting to install or operate lift.

This manual has been provided to assist you with lift installation and operation. For further assistance please contact your authorized Harmar Mobility dealer or Harmar’s Technical Service Department.

Tech: 866-378-6648
Fax: 941-308-7399
Email: tech@harmar.com

Harmar
2075 47th ST
Sarasota, FL 34234
Tel: 800-833-0478

Dealer:

Serial Number:
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THE FOLLOWING IS A SUGGESTION OF BASIC TOOLS RECOMMENDED TO HAVE ON HAND DURING INSTALLATION
AS WELL AS A GUIDE TO PORTRAY COMPLEXITY OF THIS TYPE OF INSTALLATION.
THIS IS, BY NO MEANS, MEANT TO REPRESENT THE REQUIREMENTS AS A WHOLE, AS EACH INSTALLATION WILL
VARY TO SOME DEGREE. HARMAR LIFTS ARE DESIGNED TO INSTALL WITH AS LITTLE ASSEMBLY AS POSSIBLE.

SAE SOCKET
7/16"
1/2"
9/16"
3/4"

SAE WRENCH
7/16"
1/2"
9/16"
3/4"

SAE ALLEN WRENCH
5/32"
1/8"
3/16"
5/16"
38"

WIRE CUTTERS

NEEDLE NOSE PLIERS

#2 FLAT HEAD SCREWDRIVER

#2 PHILLIPS HEAD SCREWDRIVER

SMALL HACKSAW

ELECTRIC DRILL

MARKING IMPLEMENT

TAPE MEASURE

DRILL BITS

METAL FILE

As always, if you have any questions, concerns or comments, please feel free to contact
Harmar's Technical Service Department at 866-378-6648 or “tech@harmar.com” ☎
IF ANY PARTS ARE MISSING OR IF ANY DAMAGE IS NOTED, IMMEDIATELY CONTACT THE DISTRIBUTOR FROM WHICH YOU PURCHASED YOUR LIFT. DO NOT ATTEMPT TO INSTALL OR USE THE LIFT WITH ANY MISSING OR DAMAGED PARTS.

BE SURE TO CHECK THE CONTENTS OF THE BOX AGAINST THE PACKAGE CHECK LIST TO BE SURE THAT ALL THE PARTS ARE INCLUDED WITH THE LIFT THAT ARE REQUIRED FOR PROPER INSTALLATION.

**AL-055**

- Flange Bushing
- Bushing
- Collar
- Post
- Harness
- Hand Control
- Base
- Arm Assembly

**AL-065**

- Shaft Collar
- Post
- Harness
- Hand Control
- Standard Class 3 Hitch Adapter
- Mounting Flange

**HARDWARE PACK**

- 1 - Vehicle Harness
- 1 - Wire Connector
- 1 - Rocker Stopper
- 1 - HHCS, 1/4-20 x 3.50" L, ZP Steel G5
- 1 - HHCS, 1/4-20 x 3.50" L, ZP Steel G5
- 3 - Nut, Lock, 3/8-24, ZP Steel
- 10 - 14" Cable Ties
- 4 - 4" Cable Ties
- 4 - Cord Clips
- Installation & Owner's Manual
- Rubber Grommet
- Wire Harness Instruction
- 6" Velcro

- Vehicle Harness
- Wire Connector
- Rocker Stopper
- HHCS, 1/4-20 x 3.50" L, ZP Steel G5
- HHCS, 1/4-20 x 3.50" L, ZP Steel G5
- Nut, Lock, 3/8-24, ZP Steel
- 10 - 14" Cable Ties
- 4 - 4" Cable Ties
- Cord Clips
- Installation & Owner's Manual
- Rubber Grommet
- Wire Harness Instruction
- 6" Velcro

**MOUNTING ARM**

**ARM ASSEMBLY**
Improper wiring is the #1 cause of problems in the operation of a vehicle lift.

Follow the wiring instructions carefully.

Located in the hardware pack is the vehicle wiring harness. The harness is manufactured to and complies with the SAE J1128 requirements. The wire harness is approximately 23 ft long and will accommodate most vehicles.

Your wiring harness has been left un-assembled for ease of installation. The end connector has been included separately from the harness to allow the installer to run the wire under and through the vehicle with the smallest hole possible. Follow these instructions to assure proper installation. Do not connect red wire until the very end.

Unwind the harness and lay it flat. One end of the harness has 2 covered pins. This is the lift end of the harness and goes to the rear cargo area where the lift will mount.

1. Begin routing the wiring harness at the vehicle battery. Attach the black wire to the negative terminal on the battery. Do not attach the red wire until the end.

2. Run the wiring harness under or when possible through the vehicle, back to the rear cargo area / trunk. Always locate the wiring where it cannot be snagged by road debris and away from the gas tank, brake lines, fuel lines, gas tank, pinch points, and sharp edges. Locate the wiring harness where it can not be snagged by road debris.

3. Once the harness is run into the vehicle, remove pin’s protective tubing.

4. Inspect the pin’s retaining flanges. They may have become deformed while running them through the vehicle. These are critical to secure the pins inside the end connector. Adjust as needed.

5. Flip open end connector’s hinged retainer. Insert pins as shown: B=Black, A=Red.

20 amp self resetting circuit breaker

When the installation requires the wiring harness be run on the underside of the vehicle, route the harness away from the exhaust system, brake lines, fuel lines, gas tank, pinch points, and sharp edges. Locate the wiring harness where it can not be snagged by road debris.

Never attempt to connect the harness to a secondary power source. Always connect both leads directly to the battery.

Correct

IF NEEDED

Adjust by prying out slightly

When testing for 12 volts may indicate a connection, but not necessarily a sufficient connection. The lift’s motor can draw up to 30 amps at some points, requiring all of the available to flow proper current. Poor connections are #1 problem associated with a vehicle’s vehicle lifting system. Poorly wired wiring harness will only draw current inefficiently, with little or no power supplied. If a single strand of a multi-strand wire is making contact, 12V will appear on the meter, or test light, but will not allow the motor to operate. It is always best to test both current and voltage, or run the motor with known good shop battery or power source when testing for power.

Probing for 12 volts may indicate a connection, but not necessarily a sufficient connection. The lift’s motor can draw up to 30 amps at some points, requiring all of the available to flow proper current. Poor connections are #1 problem associated with a vehicle’s vehicle lifting system. Poorly wired wiring harness will only draw current inefficiently, with little or no power supplied. If a single strand of a multi-strand wire is making contact, 12V will appear on the meter, or test light, but will not allow the motor to operate. It is always best to test both current and voltage, or run the motor with known good shop battery or power source when testing for power.
Prior to any holes being drilled, it is highly recommended that the lift be run through its range of motion in a “trial fit.”

With the help of an assistant, assemble the lift, and place it in the most rear corner of the cargo space closest to the bumper. (This will yield the greatest available loading area)

(Passenger side shown. Driver’s side identical but mirrored)

Fold the chair or scooter’s seat back (or remove seat) preferably with docking device installed to roughly observe the chair’s transportable dimensions.

Measure length, width, and height

Simulate each of the chair’s dimensions (length, width, and height) while running the lift through its full range of motion in and out of the vehicle’s cargo area.

Once it has been verified each of the held measurements does not interfere with the vehicle’s cargo area / opening, mark the 3 locations in which to drill.
ONCE CONFIDENCE HAS BEEN GAINED ON THE POSITION OF THE LIFT, AND THE "TRIAL FIT" PROCEDURE HAS BEEN COMPLETED, THREE 3/8" HOLES WILL NEED TO BE DRILLED IN THE MARKED LOCATIONS.

INSTALLATION TIP:

CHOOSE A SAFE LOCATION IN WHICH TO DRILL A SINGLE PILOT HOLE FROM ABOVE IN ONE OF THE 3 MARKED LOCATIONS.

LOOK UNDERNEATH THE VEHICLE AND MEASURE OUT THE SPECIFIED DISTANCE FROM THE PILOT HOLE.

IF ALL IS CLEAR IN THAT AREA, CONTINUE TO DRILL PILOT HOLES IN REMAINING LOCATIONS.

INSPECT ALL THREE PILOT HOLES FROM UNDER THE VEHICLE. IF ALL CLEAR, DRILL 3/8" HOLES IN PILOT LOCATIONS.

ONCE HOLES ARE DRILLED, FASTEN BASE TO VEHICLE FLOOR USING SUPPLIED HARDWARE IN THE HARDWARE PACK. BE SURE TO TIGHTEN ALL FASTENERS.

PLACE POST INTO BASE.

SLIDE SHAFT COLLAR OVER POST TIGHTEN SET SCREW.

SLIP-ON ARM ASSEMBLY ONTO BASE.

ADJUST ARM HEIGHT WITH SET SCREW AS NEEDED (POST MAY BE CUT IF REQUIRED).

ONCE REQUIRED HEIGHT IS DETERMINED, DRILL 1/4" HOLE THRU POST USING SHAFT COLLAR AS A GUIDE.

BOLT SHAFT COLLAR TO POST USING SUPPLIED 1/4" BOLT AND NUT.

SOME VEHICLES HAVE STORAGE COMPARTMENTS IN THE REAR CARGO AREA, POTENTIALLY EFFECTING LIFT PLACEMENT. MOST OF THESE CAN BE OVERCOME WITH THE AID OF AN ALL THREAD KIT. SHOWN ABOVE IS THE TYPICAL APPLICATION FOR OVERCOMING THESE STORAGE COMPARTMENTS OR WELLS.

Spare tire storage: Some vehicles store the spare tire under the floor of the vehicle. Make sure that the base can be bolted through a steel floor or frame.
ASSEMBLE HITCH ADAPTER TO MOUNTING FLANGE AND BOLT ARM / BASE TO MOUNTING FLANGE (LEAVE LOOSE FOR ADJUSTMENT)

CLASS 3 HITCH ADAPTER

CLASS 2 HITCH ADAPTER

MOUNTING FLANGE

FLIP ASSEMBLE HITCH ADAPTER TO MOUNTING FLANGE AND BOLT ARM / BASE TO MOUNTING FLANGE (LEAVE LOOSE FOR ADJUSTMENT)

PLACE POST INTO BASE SLIP FRAME ONTO POST

ADJUST ARM HEIGHT WITH SET SCREW AS NECESSARY.

ONCE REQUIRED HEIGHT AND ROTATION IS DETERMINED, DRILL 1/4" HOLE THRU POST USING SHAFT COLLAR AS A GUIDE.

HITCH STABILIZER

TIGHTEN HITCH STABILIZER ON HITCH LIP AND BOTTOM OF HITCH ADAPTER

BOLT SHAFT COLLAR TO POST USING SUPPLIED 1/4" BOLT AND NUT.

ONCE ALL ADJUSTMENTS ARE COMPLETE, TIGHTEN ALL FASTENERS

FOR DRIVER’S SIDE: FLIP MOUNT BASE, SO ARM IS ON OPPOSING SIDE.
The Docking Device is the interface between the lift and the Chair / Scooter.

Most chairs / scooters can be lifted either by the center seat post or the 4 post seat frame.

Although most chairs / scooters can be lifted by the above Docking Devices, many specific devices exist making the application even easier.

Please consult the instruction provided with your Docking Device, or contact our technical service department to find out exactly how this device is right for you.
AL-055 OPERATION

- Connect power to lifting motor
- Open trunk or cargo door
- Place post into base
- Place arm assembly onto post
- Lower strap to chair’s height
- Park chair close to vehicle
- Inspect lifting strap before each use
- Ensure the lifting strap is secure and that it points straight down. Failure to do so could result in the scooter or chair swinging causing damage to operator or vehicle
- Lower chair into vehicle
- Remove hook from docking device
- Attach lifting hook to docking device
- Fold seat back down / take seat off
- Attach docking device
- Raise chair above bumper
- Manually rotate arm into vehicle
- Raise chair above bumper

- Disconnect power to lifting motor
- Disconnect power to lifting motor
- Remove arm & post assemblies and store inside trunk or cargo area
- Close trunk / cargo door
- Lower chair into vehicle
- Remove hook from docking device
- Ensure the lifting strap is secure and that it points straight down. Failure to do so could result in the scooter or chair swinging causing damage to operator or vehicle
- STOP LIFTING BEFORE THE STRAP HOOK CONTACTS THE STRAP ROLLER MOUNTED ON THE LIFTING ARM. CONTACT WILL DAMAGE THE LIFT. A PROPERLY ADJUSTED LIFT WILL AVOID THIS.
- Remove arm & post assemblies and store inside trunk or cargo area
- Close trunk / cargo door
- Lower chair into vehicle
- Remove hook from docking device
- Ensure the lifting strap is secure and that it points straight down. Failure to do so could result in the scooter or chair swinging causing damage to operator or vehicle
- STOP LIFTING BEFORE THE STRAP HOOK CONTACTS THE STRAP ROLLER MOUNTED ON THE LIFTING ARM. CONTACT WILL DAMAGE THE LIFT. A PROPERLY ADJUSTED LIFT WILL AVOID THIS.
- Desk: 612.0x792.0
OPEN TRUNK OR CARGO DOOR
INSERT POST INTO ARM / BASE
PLACE ARM ASSEMBLY ONTO POST

INSPECT LIFTING STRAP PRIOR TO EACH USE

MANUALLY ROTATE FRAME ARM TO OUTSIDE OF VEHICLE

CONNECT POWER TO LIFTING MOTOR

LOWER STRAP TO CHAIR'S HEIGHT

PARK CHAIR CLOSE TO VEHICLE

KEEP HANDS AND FEET FROM UNDER THE SCOOTER OR POWER CHAIR AS IT IS BEING LIFTED

RAISE CHAIR ABOVE BUMPER

MANNYLOATE ARM INTO VEHICLE

ENSURE THE LIFTING STRAP IS SECURE AND THAT IT POINT STRAIGHT DOWN. FAILURE TO DO SO COULD RESULT IN THE SCOOTER OR CHAIR SWINGING, CAUSING DAMAGE TO OPERATOR OR VEHICLE

STOP LIFTING BEFORE THE STRAP HOOK CONTACTS THE STRAP ROLLER MOUNTED ON THE LIFTING ARM. CONTACT WILL DAMAGE THE LIFT. A PROPERLY ADJUSTED LIFT WILL AVOID THIS

LOWER CHAIR INTO VEHICLE

REMOVE HOOK FROM DOCKING DEVICE

ATTACH DOCKING DEVICE OR ATTACH LIFTING HOOK TO DOCKING DEVICE

ELIMINATE EXCESS STRAP BY PRESSING THE "UP" BUTTON UNTIL THE HOOK IS ABOUT 1 INCH FROM THE TOP OF THE LIFTING ARM

IF PREPARATIONS ARE NEEDED TO SECURE THE SCOOTER OR CHAIR FOR TRANSPORT SUCH AS PARKING BRAKES OR WHEEL CHOCKS, THE DEALER SHOULD INSTRUCT OPERATORS ON HOW.

DUE TO THE WIDE VARIETY OF SCOOTERS, POWER CHAIRS, AND VEHICLES, YOUR DEALER MAY OFFER A DIFFERENT METHOD FOR LOADING AND UNLOADING YOUR SCOOTER. PLEASE FOLLOW THE GUIDELINES THEY HAVE OFFERED

UNLOADING IS THE REVERSE OF LOADING

TRAVEL w/ LIFT ASSEMBLED
UN-ASSEMBLE / STORE INSIDE

ALWAYS DISCONNECT POWER TO LIFTING MOTOR BEFORE TRAVEL

RETURN STRAP HOOK TO MOUNT FLANGE
RUN STRAP UP TILL TIGHT
SAFETY:

CAUTION: DO NOT OPERATE THIS LIFT UNTIL YOUR DEALER HAS Satisfactorily instructed you in the PROPER operation of the lift.

Your Harmar Inside lift has been engineered and designed for years of trouble free use. Although, with everyday use, some parts may become loose or worn. IMPORTANT Check regularly for any worn, loose, or damaged parts of your lift. If anything is observed, DO NOT USE THE LIFT! Contact your dealer or installer of the lift for repairs to be made. Failure to act may cause severe injury.

Your Harmar Inside lift should only be used for the loading and unloading of scooters and power wheelchairs for which it is designed. If your particular application (vehicle & scooter/Chair) changes (ex. buy a new car / upgrade to a new power Chair) please consult your installer or dealer, as the original equipment may not configure the same. Do not add to or modify any part of the lift system without first consulting the manufacturer of the lift. Any modifications may void any warranties as well as the structural integrity of the lift.

Always check the lifting strap before each use for damage or wear. If there is any sign of tearing / loose threads / damage / wear and personal injury may occur. Please contact your dealer or installer, and have the strap replaced immediately.

CAUTION: When attaching the strap hook to your chair / scooter, insure the lifting strap is secure and taught and that it points straight down before lifting. Failure to do so could result in the scooter or chair swinging toward the operator or the vehicle.

CAUTION: When using the lift, keep your hands and feet from under the chair / scooter as it is being loaded or unloaded.

CAUTION: Stop lifting before the strap hook contacts the strap roller mounted on the lifting arm. Contact will result in damage to the lift. A properly adjusted and operated lift will avoid this.

CAUTION: Insure the chair / scooter is firmly sitting on the floor of the vehicle and not suspended by the lift during transportation. If the scooter / chair is not firmly on the floor of the vehicle, it may move during transportation causing damage to the lift to the vehicle, to the scooter / chair, or to the passengers.

MAINTENANCE:

Your Harmar Inside lift has been designed and engineered to be as trouble free as possible to the owner. But, as with any mechanical device, regular care should be given while owning an using this device.

Maintenance is no exception.

We recommend that dealers schedule a preventative maintenance inspection at least once a year on motors, lift frame, wiring harness, and all moving Parts of the lift.

Check for paint chips and touch up and bare metal with a good gloss black Enamel or lacquer to inhibit rust. This may be necessary more frequently when subjected to salt air or road salt.

Always check the lifting strap before each use. If any wear or damage is noticed DO NOT USE THE LIFT! Contact the dealer or installer for repair. Failure to do so will result severe injury or damage.

Hand control units should be properly stored inside the vehicle whenever possible. If lift is installed in the back of a pick-up truck, we strongly recommend un-plugging the control in between uses, and storing in the cab. Exposure to weather is ok, but rain flooding the truck bed and the hand controller being submerged in water, could cause the controller to fail.

WARRANTY:

This lift covered by a three year factory warranty on materials and workmanship Contact your local dealer for more information or go to www.harmar.com
**TROUBLESHOOTING**

**PROBLEM:** LIFT WILL NOT OPERATE, OPERATES SLOWLY OR OPERATES INTERMITTENTLY.

**REASON:** BAD ELECTRICAL CONNECTIONS / CIRCUIT BREAKER

**PROCEDURE:**
CHECK / CLEAN ALL CONNECTIONS THAT MIGHT BE LOOSE OR DIRTY THIS IS THE #1 CAUSE OF A POORLY PERFORMING LIFT.

THE MOTOR ON THE LIFT REQUIRES QUALITY ELECTRICAL CONNECTIONS TO OPERATE AT FULL CAPACITY. ANY BREAK IN THE WIRING WILL SLOW DOWN THE MOTOR, OR CAUSE IT TO OPERATE INTERMITTENTLY WHICH IN TURN WILL PREMATURELY DETERIORATE THE MOTOR.

THE LIFT'S VEHICLE POWER HARNESS RUNNING THROUGH OR UNDER THE VEHICLE IS SUBJECT TO ROAD DEBRIS, AND RUBBING AGAINST THE VEHICLE'S FRAME, CAUSING A SHORT. INSPECT THE FULL LENGTH OF THE HARNESS TO BE SURE THE JACKET OF INSULATION IS NOT TORN.

THE CIRCUIT BREAKER IS LOCATED ABOUT 6" FROM THE CONNECTIONS TO THE VEHICLE'S BATTERY. THE BREAKER WILL SELF RESET IF OVER-LOADED, HOWEVER VERIFY WITH OHM METER OR TEST LIGHT.

THE BREAKER IS FUNCTIONING, OR REPLACE IT WITH A NEW / KNOWN GOOD CIRCUIT BREAKER, AND PERFORM THE FOLLOWING TESTS.

**APPLY KNOWN GOOD POWER DIRECT TO MOTOR**

![Diagram of circuit](image)

**INSPECT OR REPLACE LIFT WIRING**

**APPLICATION OF POWER**

- **APPLY KNOWN GOOD POWER DIRECT TO PLUG ON LIFT**
  - OPERATE HAND CONTROLLER

- **APPLY KNOWN GOOD POWER DIRECT THRU VEHICLE HARNESS**
  - OPERATE HAND CONTROLLER

- **INSPECT OR REPLACE VEHICLE HARNESS**

**PROBLEM:** LIFTING STRAP OPERATES IN REVERSE

**REASON:** BUTTON WAS HELD TOO LONG AND UNWOUND LIFTING STRAP LIKE A YO-YO, THE LIFTING STRAP WOUND IN REVERSE

**PROCEDURE:** PRESS WHICH EVER BUTTON EXTENDS STRAP, AND CONTINUE TO HOLD UNTIL STRAP RETURNS TO PROPER DIRECTION

**PROBLEM:** SCOOTER OR CHAIR TIPS FRONT OR BACK WHILE BEING LIFTED

**REASON:** CHAIR OR SCOOTER IS BEING LIFTED OFF CENTER

**PROCEDURE:** ADJUST FOR CENTER OF GRAVITY ON DOCKING DEVICE. CHECK TO SEE IF PROPER DOCKING DEVICE IS BEING USED

**PROBLEM:** LIFTING ARM IS HARD TO ROTATE

**REASON:** DRY / DIRTY BUSHINGS

**PROCEDURE:** CLEAN AND LUBRICATE GREY BUSHINGS IN BASE WITH WHITE/LITHIUM GREASE OR EQUIV.

**TROUBLESHOOTING WITH A TEST LIGHT, OR VOLTAGE METER: THEY MAY GIVE FALSE INDICATIONS**

**EXAMPLE:**

- LIFT WILL NOT OPERATE, OPERATES SLOWLY OR OPERATES INTERMITTENTLY

- LIFTING STRAP OPERATES IN REVERSE

- SCOOTER OR CHAIR TIPS FRONT OR BACK WHILE BEING LIFTED

- LIFTING ARM IS HARD TO ROTATE

**HARMAR STRONGLY RECOMMENDS TROUBLESHOOTING ELECTRICAL PROBLEMS WITH KNOW GOOD / FULLY CHARGED 12 V AUTOMOTIVE BATTERY OR KNOW GOOD / FULLY CHARGED POWER CHAIR/SOOTER BATTERY**
AL 055 / 065 ARM ASSEMBLY

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<th>NO.</th>
<th>CNT</th>
<th>PART NO.</th>
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<td>SET SCREW, 1/4-28 X 0.375</td>
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**Note:** The table provides a detailed list of assembly parts for the AL-055 assembly, including their quantities and descriptions. The diagram illustrates the physical arrangement of these parts within the assembly.
ELECTRICAL

ARM ASSEMBLY

WIRING IN LIFT

2 BUTTON HAND CONTROL

VEHICLE HARNESS

20A SELF RESETTING CIRCUIT BREAKER

BATTERY IN VEHICLE

BATTERY 12V
THANK YOU FOR MAKING HARMAR AMERICA'S LEADER IN LIFTS AND RAMPS