Outside Lifts

Installation & Owner's Manual



www.harmar.com | 800-833-0478



Read and understand this manual thoroughly before attempting to install or operate the lift. If you have any questions, please contact your Authorized Harmar Dealer or Harmar's Technical Service Department.

Dealer Name & Contact Information:

P 800-833-0478 | F 866-234-5680 | TECH@HARMAR.COM Serial # of Your Lift:

Section 1: Owner

DPERATING YOUR LIFT
General Operation
AL010/050 and AL030 Micro Lifts6
AL570 & AL570XL Lifts7
Using a Swing-Away8
Manual Override 10
AFETY & MAINTENANCE 11

SAFETY & MAINTENANCE

Section 2: Installer

PREPARATION

Tools Required	
Unpacking the Lift	14
Installation Overview	15

INSTALLATION

Wiring the Vehicle	17
Vehicle Hitch	
Hitch Adapters Lift Installation	20
Hitch Post Mount	
AL030 Bumper Mount	23
Swing-Away	
AL030 Power Tote Ball Mount	26
CHAIR PREPARATION	27

CHAIR PREPARATION

LIFT ADJUSTMENTS

AL015 / AL100 / AL100HD / AL160	029
AL010/050 and AL030	31
AL560 & AL560XL	32

AL560 & AL580 Hold-Down Arm. AL570 & AL570XL Chair Plow Dock 'N' Lock: AL570 & AL570 XL	34	
ROUBLESHOOTING	37	
EXPLODED VIEWS		
AL030	39	
AL010/050	40	
AL015	41	
AL100	42	
AL160	43	
AL300	44	
AL300RV	45	
AL301XL	46	
AL500	47	
AL560	48	
AL560XL	49	
AL570	50	
AL570XL	51	
AL580	52	
AL580XL	53	
AL585SEL	54	
AL58555	55	
AL100HD	56	
AL300HD	57	
AL301XLHD	58	
AL500HD	59	
LECTRICAL HARDWARE	60	
VARRANTY	63	Í

NOTE: The following symbols indicate areas where you should take special care to avoid danger to individuals or property.



WARNING

Hazardous situation. If not avoided, could result in serious injury to installer or user.



CAUTION!

Hazardous situation. If not avoided, could result in serious damage to property.

GENERAL OPERATION

1. LOWERING THE LIFT

Insert key and switch to 'ON' position.Press 'DOWN' on toggle switch. The platform will unfold. Continue to lower until platform reaches the ground and becomes level. [Figure 3-1]

DO NOT over-lower to the point where the vehicle begins to rise. This will damage the lift.



Figure 3-1

2. DRIVE CHAIR ONTO PLATFORM.

Drive slowly, stopping when the drive wheels fall between the platform bars on the side or center depending on the lift and chair model. [Figure 3-2]

IMPORTANT

Positioning the chair properly on the platform is critical to ensure it is properly locked onto the lift. Always verify wheels are captured by cradles or bars. Please consult your dealer on the specifics of your application.





3. SECURING THE CHAIR

Depending on your lift model and the type of securement device it uses, you may wish to raise the platform halfway, using the 'UP' toggle switch, in order to avoid having to bend over while you attach straps or flip the chair's armrest out of the way of the hold-down arm. [Figure 4-1]



Figure 4-1

4. RAISING THE LIFT

When the chair is secure, use the 'UP' toggle switch to continue raising the lift. Stop when it reaches the top of travel when you hear the clutch sound. Twist the key to remove. [Figure 4-2]





5. UNLOADING THE CHAIR

Insert the key and switch to 'ON' position. Press 'DOWN' to lower the lift. Do NOT continue travel to the point where the vehicle rises; that will damage the lift. [Figure 5-1]

Drive the chair off the platform carefully. When the chair is unloaded, press 'UP' and the platform will automatically fold. (Except AL010/050 and AL030).



Figure 5-1



These are general instructions. Specifics may vary based on your chair model and lift combination. Please follow the specific instruction suggested by your dealer.



Always verify the chair or scooter is held firmly in place prior to transport.

• Always run the lift fully to the top for transport. The lift will make a ratcheting sound which indicates that all mechanisms are locked and prepared for travel.

 Never attempt to move the vehicle without the lift being in the full up or stowed position. This may damage the lift.

 Drive slowly over rough terrain such as pot holes, unpaved roads, railroad tracks.
Excessive loads from rough driving will damage your lift and is not covered by the warranty.

 If you notice any damage, stop using the lift immediately. Do not attempt to transport a chair or scooter with a compromised lift. Damage to your chair, lift, vehicle may occur. Take the lift to your nearest dealer and have it evaluated prior to further use.

Operating Your Lift

SECTION 1 : OWNER



AL010/050 AND AL030 MICRO LIFTS

MICRO LIFTS / FOLDING

AL010/050 and AL030 models require the platform to be folded and unfolded manually.

The locking mechanism consists of a pin and keeper plate, which must be disengaged before unfolding. Simply hold the platform firmly and lower it approximately 2" to allow the platform to disengage and unfold. [Figure 6-1]



Hold platform firmly while lowering the lift WARNING to its down position.

To lock in the upright position, lift platform up before the pin engages the keeper plate. [Figure 6-2]



Hold platform firmly while raising the lift until the pin has WARNING engaged the keeper plate.



Figure 6-2



SECTION 1 : OWNER

Operating Your Lift

AL570 & AL570XL

LOADING THE CHAIR

Set chair speed to SLOW. Drive chair forward carefully until the chair plow engages with the Dock 'N' Lock [Figure 7-1]



Set chair speed to SLOW and use extra caution while driving on and off the platform.

CAUTION

Raise lift 2"-3" to close the Dock 'N' Lock, [Figure 7-2]

TEST SECUREMENT

Raise the lift platform 3"-6" off the ground. Set the chair speed controller to slow and attempt to move the chair in reverse. If successfully locked, the chair will not move in reverse. [Figure 7-3]



Figure 7-1



Figure 7-2



Figure 7-3



The Dock 'N' Lock MUST be tested EVERY time you load the chair for WARNING transport. DO NOT attempt to travel with the chair until you verify that the chair is fully engaged on the platform. Failure to do so could result in serious injury or property damage.

SWING-AWAY

The Swing-Away allows you to easily swing the installed auto lift away from the back of the vehicle for convenient access to the trunk or lift gate. The Swing-Away option can be purchased from an authorized dealer and added at any time.



NEVER open the Swing-Away with the chair on the lift.

ING You will damage the Swing-Away and the lift. It will

Away and the lift. It will potentially damage the vehicle and the chair. Any of these actions will VOID your warranty.



Figure 8-1



Open ONLY on Level Ground

WARNING

Failure to open on level ground may result in losing control of the lift, resulting in personal injury or damage to property.





OPENING THE SWING-AWAY

1. Remove Safety Pin [Figure 8-3]



2. Pull T-Handle [Figure 8-4]

 Grasp the lift firmly and swing it out, away from the vehicle. The Swing-Away can be opened up to 180 degrees from the closed position to allow full access to the vehicle's cargo area. [Figure 8-5]







Figure 8-5

NOTE: Two Swing-Away models are available, a standard AL105 and the lightweight AL105L. They work basically the same way but the parts differ slightly as noted in [Figure 8-3].



SECTION 1 : OWNER Operating Your Lift

CLOSING THE SWING AWAY

Close the Swing-Away unit as you would a car door.



Stay clear of the latching mechanism

NC



Figure 9-1



Verify that the T handle has fully retracted.



Figure 9-2



AL105L AL105



MANUAL OVERRIDE

In the event of a power failure, for example if your car battery dies, your lift can still operate using the Manual Override system.

1. Unplug Power to the Lift. [Figure 10-1]



Figure 10-1

 Remove the cap on top of the motor cover, using a coin or key. [Figure 10-2]



Figure 10-2

3. Insert a 3/8" socket wrench into the

actuator and rotate the Hex Shaft. [Figure 10-3]







Disconnect power from lift **BEFORE** attempting manual override.

IMPORTANT!

You MUST unplug the two-connector plug BEFORE any attempt to use the Manual Override. Failure to do so result in serious injury.

 Turn COUNTER-CLOCKWISE to LOWER the platform. [Figure 10-4]

5. Tum CLOCKWISE to RAISE the platform. [Figure 10-4]



Figure 10-4

SAFETY & MAINTENANCE



This lift is NOT meant for human transport. The chair or scooter MUST be unoccupied before operating the lift. Each WARNING! lift is designed to transport a specific chair only. DO NOT attempt to move any mobility devices, objects, people, or materials other than those for which the lift was designed.



Drive with EXTREME CARE while transporting your chair or scooter on the lift. DRIVE SLOWLY over rough terrain such as pot holes, unpaved roads, railroad tracks. Excessive bumping creates stress on the lift and vehicle and can badly damage your lift, vehicle, and mobility device.

SPECIAL CAUTIONS



- Return hold-down arm to a side position before folding platform. Failure to do so will damage your lift.
- Beware of pinch points. These are areas of mechanical objects with moving parts than can catch extremities or clothing. Do not place fingers, extremities or allow clothing near such points.
- Keep hands, feet and objects away from Platform as it Lowers.
- Keep chair tires properly inflated. Improper inflation will change how the chair fits and secures on the platform. and changes the clamping pressure.
- Secure chair firmly before driving. Double-check that is it secured properly to the platform before you transport it.
- Inspect the lift condition often. If ANY parts are worn or damaged, DO NOT USE THE LIFT. Immediately contact the dealer you purchased the lift from for repairs.

- Do Not Enter Steep Driveways Straight On. Enter and leave at an angle to the street so that the lift does not drag on the ground.
- Do Not Move the Vehicle with Platform Down. If you move with the platform in the down position, you will damage the lift mechanism.
- Hand Wash or Use Touchless Automatic Car Wash only. To prevent lift damage do NOT use automatic wash systems.



Figure 11-1

NOTES FOR AL015, AL100 AND AL160 MODELS



On some scooters, it may be necessary to temporarily move the steering tiller forward to clear the hold-down arm as it lowers into the lockdown position.



WARNING!

Some scooters have pneumatic (air inflated) tires. If your scooter has this type tire, be sure the tires are properly inflated. Improper inflation will change the deck height of the scooter and therefore change the amount of clamping force the holddown arm places on the scooter. The scooter can fall off the lift if not properly secured.



CAUTION!

Drive the scooter off in REVERSE. When the scooter is clear of the platform, raise the platform by pushing up on the UP/DOWN switch.



Figure 12-1

MAINTENANCE

This Outside Lift is designed to be as trouble free as possible; however, some basic maintenance will ensure that it continues to offer reliable use for years to come.

Oil pivot points on all moving parts every 30 days.

Re-grease the inside vertical square tube every 30 days in winter or in dirty or dusty conditions. Just lower the platform to the ground and clean the tube with mineral spirits, WD-40, or a good solvent. When clean, grease the square vertical tube shaft with high grade water-resistant grease such as boat trailer wheel bearing grease. [Figure 12-1]

Check for paint chips and touch up bare metal. Use a good gloss black enamel or lacquer to inhibit rust. You may need to do this more frequently if your lift is subject to salt air or road salt in the winter.

PROFESSIONAL INSTALLATION RECOMMENDED

NOTE: The following section is designed for the professional installer. We strongly recommend that a certified dealer install the lift, configure the docking device, and instruct the user on correct operation as well as establish a Safety and Maintenance Schedule.

If you do not understand any portion of installation or operation, please consult our technical service department or authorized mobility dealer. Do not attempt to install or use this lift with any hesitation or question. Serious injury or damage can result if proper procedures are not followed.

Read & Understand this Manual Prior to Installation or Operation. Having an overall understanding of the lift and proper installation techniques will help you save time, energy and avoid possible injury.

TOOLS REQUIRED

Installations may vary to some degree, but below are the basic tools to have on hand for an Outside Lift installation.

If you have any questions, concerns or comments, please contact our Technical Service Department at 800-378-6648 or tech@harmar.com



UNPACKING THE LIFT

Check the box contents. Review each part against the packaging checklist to ensure that all parts have been included.

If any parts are missing or damaged, immediately contact the dealer who sold the lift. Do not attempt to install or use a lift that has missing or damaged parts.



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INSTALLATION OVERVIEW

Never attempt to pick up the lift from the box, ground or on/off a vehicle alone.

If you follow the proper installation procedure, no heavy lifting will be needed, and the lift practically installs itself.

Read & understand this Manual prior to installation or operation.

Knowing the lift's adjustments and the tips on proper installation techniques will save time, energy and avoid possible injury. If you do not understand any portion of installation or operation, please consult our technical service department or authorized mobility dealer.

Quick Reference – Installation Procedure

1. Wire the Vehicle. See page 17.

Installing the wiring harness first will ensure you have power to the lift during installation. This allows the motor to do the lifting for you. (If you skip this step, use a shop battery.)

2. Position the open box behind the vehicle. Slice the corner seams. [Figure 15-1]





Figure 15-2

Figure 15-1

3. Determine / Install Hitch Height / Adapter. Measure the hitch to ground distance so you can save time by selecting components that fit between lift and vehicle so as to maintain proper ground clearance. [Figure 15-2] Install Hitch Adapter that fits the application. See pages 21 to 25.



4. Connect power to the lift. [Figure 16-1] Insert and turn key. Press 'DOWN' to extend the lift. [Figure 16-2]



Figure 16-2

5. When extended 3" or more flip up to vertical. [Figure 16-3]

6. Align the hitch adapter, using the power of the lift. The lift will slide on the cardboard box. [Figure 16-4]







Figure 16-4



WIRING THE VEHICLE

Improper wiring is the #1 cause of problems in the operation of a vehicle lift. Follow the wiring instructions carefully

The vehicle wiring harness is located in the hardware pack. The harness is manufactured to comply with SAE J1128 requirements. It is approximately 23 feet long and will accommodate most vehicles.



DO NOT connect

the red wire

WARNING! until LAST.

1. Unwind the wiring harness and lay it flat.

The harness end with the black connector is the lift end. It goes to the trailer hitch area where the lift will mount. [Figure 17-1]

Figure 17-1



Figure 17-2

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 very end of installation. [Figure 17-2]



NEVER attempt to connect the harness to a secondary power source. Always connect CAUTION! both leads directly to the battery.

Run the vehicle harness under and, when possible, through the vehicle back to the bumper/trailer hitch area.

- Run the wire under and through the vehicle whenever possible, gaining entry into the vehicle through the firewall
- DO NOT run wiring where it can be snagged by road debris.
- DO NOT run wiring near the gas tank.
- If you wish to run the harness under the vehicle, use the supplied wire ties to secure the wire against the frame, avoiding moving parts / hot parts such as exhaust.

continued

 If the harness is too long, coil the excess wire and secure it to the vehicle frame/bumper with the supplied wire ties. [Figure 18-1]



DO NOT cut or shorten the harness.

CAUTION!

4. Once harness is run into the vehicle, remove the pin's protective tubing.

5. Inspect the pin's retaining flanges.

They may have become deformed while run through the vehicle. These are critical to secure the pins inside the connector. Adjust as needed.

6. Flip open end connector's jigned retainer, insert pins as shown. [Figure 18-2]

Verify the wires can not be pulled out by moderately pulling on the wires.

Be sure rubber seals are inside back of connector and close the hinged retainer.

7. Plug connector into the lift.

8. LAST...attach red wire to the positive terminal on the battery. [Figure 18-3]



Figure 18-1







Figure 18-3



IMPORTANT!

If the installation requires the wiring harness to run on the underside of the vehicle, route the harness away from the exhaust system, brake lines, fuel lines and gas tank. Avoid pinch points and sharp edges. Avoid locating the harness where it can be snagged by road debris.

NOTE: A standard two-contact trailer connector is included with the lift. This is for the license plate lamp. If your vehicle is not equipped with the proper connector, you can use the **BROWN WIRE** to make a wire splice and achieve the same result. [Figure 19-3]



Figure 19-3

TECH NOTE: MOTOR TESTING

Troubleshooting with a test light or voltage meter may give a false indication.

When you probe for 12 volts, the reading may indicate a connection, even if the connection is not necessarily sufficient. The lift's motor can draw up to 20 amps at some points, requiring all of the available wire to flow proper current. Poor connections are the #1 problem associated with a slow, intermittent, warm, poorly performing motor which will also deteriorate prematurely.

If a single strand of a multi-strand wire is making contact, 12V will appear on a meter or test light, but it 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 troubleshooting.

Installation SECTION 2 : INSTALLER

VEHICLE HITCH

Outside Lifts require a vehicle that can accept a Class 1, 2 or 3 hitch. The vehicle should be wired with a standard 4 connector trailer wiring.

If you are not sure about the vehicle and hitch capability, contact a local hitch installer or you can visit web sites of a hitch company. For example: www.hitch-web.com; www.reeseprod.com; www.draw-tite.com

Be sure to use a hitch installer that is reputable, insured, and capable. Their work reflects directly on the customer's perception of your mobility lift installation.

NOTE: Not every vehicle is capable of having a hitch installed. Calculate the weights of the lift, mobility device, and, where applicable, the Swing-Away option. Be certain that the total weight does not exceed the hitch's recommended tongue weight. A range of hitches are available, capable of bearing different amounts of weight.

The lift manufacturer suggests the installer observe the vehicle's Gross Vehicle Weight Rating restrictions.

Some states have strict license plate obstruction laws. Familiarize yourself with local and state laws.

2. Ensure the receiver tube of the hitch is installed parallel to the ground. This is a requirement, not merely a recommendation. If the hitch is not installed properly it affects the lift's functionality.

Some vehicles will require that the rear suspension be supplemented. The manufacturer recommends the installer contact a suspension specialist for additional technical support.

A vehicle with a Class 2 hitch requires optional accessories.

A vehicle with a Class 3 hitch and standard 4 connector wiring is ready for installation.



HITCH ADAPTERS



Figure 21-1

AL125

a 3 Extrajono



Hitch Class is usually printed on the trailer hitch. You can also determine it by measuring the inside of the receiver on the trailer hitch as shown. [Figure 21-3]



AL127

AL1232

H128

NOTE: Some shallow hitches, ex. Spare tire blocked hitches, may require a short Hitch Adapter. [Figure 21-4]

Selecting a Hitch Adapter To determine the Hitch Adapter

that will ensure proper lift

[Figure 21-2]

operation, first determine the Hitch Class. Measure the Bumper

Distance and the Hitch Height.

WARNING! approved hitch adapters. Hitch Expanders and Extenders are strictly prohibited – using them or any

other aftermarket accessory

may result in damage to the

vehicle, lift, and/or personal

injury to the user.

Harmar lifts require Harmar-

 IF:
 X=0-7.5"
 X=7.5"-10"
 X=10"-13.5"
 Example a shallow hitches, ex. Spare Tire blocked hitches, a short Hitch Adapter may be required.

 IF:
 X=0-7.5"
 X=7.5"-10"
 X=10"-13.5"
 ex. Spare Tire blocked hitches, a short Hitch Adapter may be required.

 IF:
 X=0-7.5"
 X=7.5"-10"
 X=10"-13.5"
 ex. Spare Tire blocked hitches, a short Hitch Adapter may be required.

 IF:
 X=0-7.5"
 AL123
 AL125
 Cause 3 Eddra long
 Image: Cause 3 Eddra long

 IF:
 X=0-7.5"
 AL126
 AL125
 Cause 3 Eddra long
 Image: Cause 3 Eddra long
 Image: Cause 3 Eddra long

 IF:
 X=0-7.5"
 AL126
 AL127
 Please contact Harmar's Technical Service Dept.
 Image: Cause 3 Eddra long
 Image: Cause 3 Eddra long
 Image: Cause 3 Eddra long

 IF:
 X=0
 AL126
 AL127
 Class 3 Eddra long
 Image: Cause 3 Eddra long
 Image: Cause 3 Eddra long
 Image: Cause 3 Eddra long

 IF:
 X=0
 X=0
 AL126
 AL127
 Image: Cause 3 Eddra long
 Image: Cause



Figure 21-3

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Installation SECTION 2 : INSTALLER



If the measurement falls in between, ex. 18 - 15", round up if greater than or equal to 15", round down if less than 16". Combination Hitch Adapters are available (ex. Short Class 3, 5" Drop or Long Class 2, 2" Drop)

If you have any questions / concerns about selecting the appropriate Hitch Adapter for your application, please contact Harmar's Technical Service Department, and a trained representative will be glad to help.

SECTION 2 : INSTALLER Insta

Installation



Figure 23-1

OPTIMIZING HITCH HEIGHT

You can vary the lift height by changing the Hitch Adapter's orientation and location. This helps you optimize the vehicle's ground clearance to ensure that the platform lays flat when it reaches the end of its travel.

Consult Figure 23-1 to select the orientation needed for the vehicle based on the Hitch Height, the vehicle's hitch receiver distance to the ground.

Refer to pages 15 & 16 for an overview of the procedure.



Figure 23-2

Installation SECTION 2 : INSTALLER

INSTALLING THE HITCH ADAPTER

1. Attach hitch adapter to hitch post orientated properly according to the application's Hitch Height. [Figure 24-1]

 Attach Hitch Post to lift. Do NOT over tighten.

3. Slide Hitch Adapter into vehicle's hitch receiver. Fasten Adapter according to hitch class. [Figure 23-2]



Figure 24-1

INSTALLATION WITH SWING-AWAY

OPTIMIZING HITCH HEIGHT

You can vary the lift height by changing the Hitch Adapter's orientation and location. This helps you optimize the vehicle's ground clearance to ensure that the platform lays flat on the ground when it reaches the end of its travel.

Consult *Figure 25-1* to select the orientation needed for the vehicle based on the Hitch Height, that is, the vehicle's hitch receiver distance to the ground.



Figure 25-2



1. Attach Hitch Adapter to Swing-Away positioned properly according to the application's Hitch Height. [Figure 25-2]

Attach Swing-Away to lift. Do NOT over-tighten.

NOTE: The Swing-Away replaces the hitch post.

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2. Slide Hitch Adapter into vehicle's hitch receiver.

[Figure 26-1] Fasten Adapter according to hitch class.



SECTION 2 : INSTALLER

Installation

AL030 POWER TOTE INSTALLATION WITH BALL MOUNT HITCH ADAPTER

1. Install bumper mount or flat bar.

[Figure 27-1]



Figure 27-1

2. Install hitch post assembly [Figure 27-2]









3. Adjust for bumper height. [Figure 27-3 & 27-4]



Only class 2 or 3 adapters can be used with Swing-Away. Refer to installation with Swing-Away for mounting orientation, page 23.





Figure 28-1

ANCHOR PLATE

CHAIR PREPARATION

A lift with four securement straps offers two options for attaching strap hooks to the chair, Anchor Plate or U-Bolt Kit. The lift includes both sets of options. [Figure 28-1]

The Anchor Plate is a 20" long flat plate with a slot in each end. It attaches to the bottom of any chair or scooter that has a center seat post. [Figure 28-2]

The Anchor Plate should extend about 1-1/2" out from the side of the cushion. The user can attach the strap hooks to the Anchor Plate in order to secure the chair to the lift.

INSTALLING THE ANCHOR PLATE

1. Remove the seat from the chair.

2. Loosen the screws that attach the plate of the bottom of the seat. Allow enough room to slide the Anchor Plate between the seat and the seat plate.

3. Attach the Anchor Plate in the center of the seat plate with the holes on each end extending evenly on each side of the seat. 4. Re-tighten the screws that hold the seat plate to the bottom of the seat.

5. Replace the seat on the chair. [Figure 28-2]

Figure 28-2



Installing U-Bolt Hardware Kit

The U-bolts are used with power chairs or scooters that do not have a center seat post. On this type chair, the seat is normally attached to a tubular frame. Install the U-bolts, two on each side, to the frame as shown. [Figure 29-1]

Ensure that the loop extends to the outside of the chair so the user can attach the strap hooks. Each chair is slightly different so the U-bolt placement will differ among models and manufacturers. Place the U-bolts towards the center of the seat if possible. Due to different seat types, you may be forced to install the U-bolts more towards the front or rear of the seat, but we recommend attachment as close as possible to the center of the seat.

Figure 29-1



AL015, AL100, AL100HD, AL160 LIFT ADJUSTMENTS

SETTING HOLD-DOWN FOOT HEIGHT

 With the platform on the ground, drive the scooter onto the platform, from left (driver's side) to right, until the rear wheels are positioned in the rear wheel spreader bar assembly. Stop when the rear tires contact the ramp of the platform.

Raise the platform until you hear the motor clutch, which indicates the top of travel.

3. Loosen both nuts on the hold-down arm and raise or lower the foot to contact the scooter's deck. [Figure 30-1]

4. Lower the platform about 1 to 2 inches.

Lower the foot once again to the scooter's deck.

 Raise the platform. Verify the hold-down foot places adequate pressure on the scooter.

continued

WARNING! In some cases, you may need to cut the threaded stud of the hold-down foot to avoid contact with the motor cover. Only cut as much stud as necessary to avoid contact with the motor cover, leaving enough stud protruding through the washer and nut to hold securely. File rough edges and add rubber cap to avoid stud corrosion.

 On some scooters, it may be necessary to temporarily move the steering tiller forward to clear the hold-down arm as it lowers into the lock-down position.

 Some scooters have pneumatic (air inflated) tires. If your scooter has this type tire, be sure the tires are properly inflated. Improper inflation will change the deck height of the scooter and affect the amount of clamping force the hold-down arm places on the scooter. The scooter can fall off the lift if not properly secured.

 Be sure to instruct the end user to avoid entering steep driveways straight on. Enter and leave at an angle to the street so that the lift platform does not drag on the ground



Drive the scooter off in REVERSE. When the scooter is clear of the platform, raise the platform by pushing up on the UP/DOWN switch.

AL015, AL100, AL100HD, AL160 LIFT ADJUSTMENTS (Con't)

NOTE: When adjusting the leg down, ensure that the top of the threaded rod still protrudes from the top of the pivot tube. [Figure 31-1]



Figure 31-1

7. Tighten the jam nut to lock it in place, when

the foot is positioned properly.

When the lift is properly adjusted, lower the platform to the ground and raise it back to the transporting position. Repeat this several times to ensure all parts operate properly and that the scooter is well secured.

Next, remove the scooter from the lift and, using the toggle switch, cycle the lift completely up and down to make sure that all parts are in good working order and the lift folds when it is empty.

AL010/050 & AL030 MICRO LIFT ADJUSTMENT

TENSIONING WASHERS

The **AL010/050** and **AL030** micro lifts contain tensioning washers on their manual folding hinge points. The force required to move these parts depends on the tension of these washers. The tension also dampens the movement and allows a controlled operation of the folding of platform or hold-down arm.

To adjust, tighten or loosen the bolt and nut located at the pivot point. [Figure 32-1] Adjusting the **AL030** Hold-Down Arm The **AL30**'s hold-down arm height requires adjustment to properly clamp a specific wheelchair to the platform.

Figure 32-1

 Position the folded wheelchair on the platform, being certain the large rear wheels fall into the cradles of the platform.

 Loosen the two bolts and nuts located in [Figure 32-2]. Allow the hold-down arm to rest on the padded armrests.

Remove chair, and allow the arm bracket to fall approximately 1 inch.

4. Tighten bolts and nuts.

 Replace chair on platform and test the holddown arm. Chair should be secure and not moveable in any direction. Adjust as needed.







AL560 & AL560XL PLATFORM ADJUSTMENTS



Thread must protrude out of top of nylon portion of all nuts.



For adjustment, ALL AL560 components are loose. You MUST tighten these screws and nuts before use. [Figure 33-1]

Figure 33-1

1. Estimate the chair's center position

Locate the drive wheel's position. [Figure 33-2] Adjust the two main cradle positions to match. Capture smaller wheels on the two

larger skins.

the skins and

cradles.

2. Drive chair onto platform. Verify chair is secure and does not move in any direction once positioned between

depending on driver's side or passenger's side entry preference.

Figure 33-2



Figure 33-3



Rearrange platform skins and cradle as needed to capture the drive wheels. [Figure 33-3]



Lift Adjustments



Figure 34-1



Figure 34-2



Figure 34-3







Figure 34-6

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Figure 34-7

AL560 & AL580 SERIES HOLD-DOWN ARM ADJUSTMENT

1. Drive chair onto platform after cradles have been adjusted. (See prior page.) [Figure 34-1]

Raise platform to top of travel until you hear the clutch. [Figure 34-2]

Loosen the two bolts and nuts in back of the vertical tube. [Figure 34-3 and 34-4] Allow arm assembly to lower until the arm contacts the seat.

Lower the platform approximately 2" to 3." Allow arm to drop with seat. Re-tighten the two bolts and nuts. [Figure 34-5]

5 Run lift up until top of travel, when you hear the clutch.

NOTE: Higher or lower arm settings can be achieved by removing top shaft collar, retracting T-handle, and re-inserting arm from above or below. [Figure 34-6]

This method allows the T-handle to remain on the same side as the key and toggle switches OR

Entire assembly can be flipped IF desired for opposite T-handle location.



Verify that the hold-down arm produces enough pressure on the seat to hold the power chair firmly to the platform. The seat should be somewhat indented by the arm. [Figure 34-7]

Figure 34-5 34

SECTION 2 : INSTALLER Lift Adjustments



AL570 & AL570XL CHAIR PLOW INSTALLATION

The plow attaches to the underside of the power chair, enabling automatic locking and unlocking of the chair to the platform of the lift.

Due to the many different makes and models of power chairs, a variety of plow arrangements exist [Figure 35-1] to ensure the chair will be compatible with the Dock 'N' Lock system.

Read, understand, and follow the instructions provided with your specific plow.

We highly recommend installing the Plow under the chair prior to adjusting the heights of the Dock 'N' Lock on the platform [Figure 35-2]. This ensures the guidelines on the next page are accurate.

If you need additional holes to install the plow, be sure to remove the power chair's batteries and inspect the back side of the tray. Avoid drilling electronics or wires, damaging the chair.





Figure 35-2

Figure 35-1

AL570 & AL570XL DOCK AND LOCK INSTALLATION

1. Measure Distance.

When the plow is attached to the chair (based on instructions provided with the plow), measure the distance from the ground to the approximate center of the ½" pin of the plow. [Figure 36-2]

Be sure the chair is on a hard, level surface when obtaining this measurement.

The **AL570** and **AL570XL** are shipped from the factory with the Dock 'N' Lock system attached directly to the platform. Subtract 1-1/4" from the measurement taken to the right, and use the appropriate number and combinations of spacers to raise to Dock and Lock to match the chair. [Figure 36-1]

Example: For AL570, if the chair's pin-toground measurement is 2.00" then subtract 1-1/4."

To prepare the need for a total of ¾" of spacers, use a ¼" spacer and a ½" with each bolt under the system.



Figure 36-1





2. Remove Dock 'N' Lock Bolts.

Using a 9/16" socket and wrench, remove bolts from Dock and Lock. Retain nylock nuts for reassembly. [Figure 36-3]

continued






SECTION 2 : INSTALLER

Dock 'n' Lock



3. Reassemble Dock 'N' Lock. Select the holes that will center the chair width-wise onto the platform. Use spacers as required to match the height of the plow on the chair. [Figure 37-1]

Be sure to use bolts that are long enough for the bolt's end to protrude through the upper nylon portion of nut – but not so long that the bolts interfere with the plow. [Figure 37-2]



Figure 37-2

Figure 37-1



Figure 37-3

4. Test Chair Locking.

Drive chair onto the platform. Test its locking on the platform. Verify that the plow's pin engages the Dock and Lock system. Adjust as needed. [Figure 37-3]

Raise platform to engage lock and test the chair to ensure that it is secure in all directions.

If Dock and Lock station does not fully retract with platform on the ground, change to longer linkage as shown. [Figure 37-4]



Figure 37-4

TROUBLESHOOTING

DEALER ONLY SECTION

The following procedures are reserved for the approved installer/dealer. They should not be attempted by anyone without proper knowledge of automotive electrical circuitry.

Be careful when troubleshooting with voltage meter. The instruments will detect voltage but may not indicate a tear or poor connection in the wiring.

It may give a false indication since it will only indicate that there is some wire connection –not necessarily enough. [Figure 38-2]

It is strongly recommended that you examine both voltage and current, or isolate sections of the lift wiring using process of elimination with a known good/fully charged 12V automotive battery or known good/fully charged power chair/scooter battery.

Example of False Voltage Reading

Figure 38-2

PROBLEM

Lift does not operate.

· Lift operates slowly or intermittently

CAUSE

Bad electrical connection(s) / Circuit breaker

SOLUTION

Check / clean all connections that might be loose or dirty. The lift motor requires quality electrical connections to operate at full capacity; any break in the wiring will slow down the motor and it will deteriorate prematurely.

Inspect the full length of the wiring harness to ensure the insulation is not torn. The lift's vehicle power harness running through or under the vehicle is subject to road debris and rubbing against the vehicle's frame which can cause a short.

Verify the circuit breaker. The circuit breaker is located about 6" from the connections to the vehicle's battery. The breaker will self-reset if overloaded; however, verify (with Ohm meter or test light) that the breaker is functioning. Or replace it with a new/known-good circuit breaker and perform the following tests.



Harmar. | www.harmar.com | 800-833-0478

PROBLEM

License plate light does not work.

CAUSE

Four-prong connector is not wired.

SOLUTION

The license plate light runs from the four-prong trailer plug located on the vehicle harness that powers the lift. Most hitch installers will install this type of wiring when the hitch is installed. If no such plug exists, it may be wired directly to a tail light of license plate light. (Brown wire only (+).

PROBLEM A ratcheting sound occurs when the lift is all the way up or down.

CAUSE

Actuator clutch

SOLUTION

In the UP direction, the ratcheting sound indicates normal overload protection and MUST be heard since it indicates platform is all the way up and that the chair/platform is secure.



Do NOT allow the ratcheting as the lift CAUTION! goes DOWN. Only lower the platform level to the around level. Do NOT begin to raise the car with the lift; it can damage the lift.

PROBLEM

Extra length of wire leads to the lift motor

CAUSE

Wire was provided for optional Swing-Away

SOLUTION

The extra wire is provided in case a Swing-Away option is used with the lift. If a Swing-Away is not installed, coil the extra wire and zip-tie it to the frame, out of the way of any moving parts. We recommend leaving the extra wire in case a Swing-Away is added at a later time.

PROBLEM Lift does not reach the ground

CAUSE

Hitch adapter installation.

SOLUTION

Check the attachment of the hitch adapter to the hitch post on the back of the lift. (See installation page 21 to 25.) The normal range of lift operation is 5" to 16" to the bottom of the hitch receiver of the vehicle. Any higher vehicles will require a different hitch adapter. (See Hitch Adapter section of this manual.)



			E NELT FORTS			10 324	6L1 PHR/16
TIN	ÚT	PURT ND.	II SCHOLES	TIN	án:	Patting	Desc HPRON
.1	1 E	2012/03/0	BARR TARE		1	HICS4,3525-4,35 IP2	101100,143115,3*
2	1.	28-245-C	Curter Turk	- C.W	11	10034,35214,87	NECKER, INC. 18, 25
1	1	28-264-C	PLIPPIN		3.5	HICS4,21/8-0,54	107300,515-8 a 1.3, (P
	1	28-249+C	HOLMOUR!		1	HICS4,3/48-4,367	HET HERE JAB 15 x 5.8, 29
	1	100.0454	LICENSE THE LC.A.DIE ICTURIOR		1	14,50,000,000	HE FIE HE 10/0 12/3 (2HC HL)
	1	18-294-C	BLOBIEFLEE	a	3.2	10,1010,020	HET HEND, 10/10 4 3.8, 2P
	1	18-264C	KOLDCOW HW	3		10/2/14-12/52	RECTORING P. WHI HELF DIRLL MILL (P
	1.	882634	LCADE ICTUROR	20	3.2	HITE IN & MLOCK 2	NUT WILLOOK, SING 16, 2P
		4,41000	WINDLESS, CAUTE AND LAPT	23	1	MULTIC IN & MEDOR-2	MUTERITE.CEX, 208-18, 2P
.18	2	464-1367	INTERFECT OF BLACK PLANTE	31	1	NUTIO, NO TO MILLOOK AND J	THEREAST, MILCOX., 42-10, 2P
	1	4.00	100 COLO - 10 PA COL	3	- 1C	MULTIN & MICOLI	MUT BITLICE, 10-10, 3P
10	1	4.4000	DPFOR 15 27UM		3.2	10.4034062,200	TO BING HER COLUMNIA AND A STATE
- 10	1	4.49980	LAND, SPAL WARD		1	NENUSAU-UNISE	WORKER, MILLINGLE, 107 K; 8 S
10		280.0401-6	MOTOR CONFR. HORE MELT			Charles and Stationard Internet	a standard and a standard and





		ABSE	IELY FINETS
TEN	QTY	PART NO.	DESCRIPTION
1	1	201-3A08-C	IN HE R. TUBE
2	1	202-2401-C	OUTER TUBE
3	1	208-2408-C	PLATFORM
4	1	201-2A02-C	SPREACE RB AR
5	1	500-2401-A	LOOKING TAB - L.C. ACHE ACTUATOR
8	1	800-2401-A	L C A CHE ACUTATOR
3	1	ALA10095	STICKER, OUTSIDE LIFT
8	1	AA100	HARDWARE IN CK
	1	AASO	U-BOLT HARDWAREKIT
10	1	ALASSOLOC	ANCHOR PLATE
11	1	AL AGGIGS	LABEL, SERIAL NUMBER
	1	H00-1403-A	HARDWARE IN CK
8	1	200-2401-A	MOTORCOVERAS SEMELY
#	1	HHCS0_25-30-0_35-MP-Z	HEX HE 40, 14-20 ±0.75 2P
		HWTS 44-0,35-2	HEX WASHER, #14 SELF CRUL, 0.75, 2P



Sec. 11		No. All No.	AS REMINE Y PARTS	- 11 C		63	ALL PARTS
MID	OTY	PRETING.	IS SCREWEN	1994		FIRTHD.	DECERPTON
1	1	3HZARC	NOER THE	21	1	新的新闻: 他们最高校	BUTTON HEAD 30-W # 130 35
1	1	3652 MB-C	OVERIAE	22	1	HWW	JCAN
1	1	38-Marc	GOGO ESPLICITORIA	20	1	HINDH	FOLLER
4	1	36-346-C	HOLD DOWNERS	24	1	Hied	CLEVER
5	1	405-3466-4	WHIL OUP FOR 10 OD STUD	3	1.0	H0CS-4_35-38-4_754PC	HEXHERA; THE 28 & B.75, 3P
1	3	585-2 AB-C	1-R.UK.21	3	1	HH34,2635-1,762	HE32HEAD; 104-30 x 176, 39
2	1	28-3914	MOTOR COVER, KEREMILY, OUT SDELFTS	2	1	HIG4,943-5,962	H31H84212-13138,3P
1	1	HEI-3KREA	L CHIG HILD DOWN FOOT	3		H/9/H//12	HEXWIGHER, \$14 SELF DELL, \$75, 2P
1		HD-3404	ATX LIFERD REPLECTIVE STOCKER	3	1	S-RECONNECTION - 2	HAUT MYLCCH, 19438, 3P
		AA WHEESO	LOADIERCINDE		1	HAT- IL SH-SHINLOCK-Z	HA/1 HYLCCH, 10-10, 3P
-	1 1	A41882	RULER FOMUMAN	21	2	HUF CUS TO AND 2	MUT ANA, SIG-11, 3P
÷.		6.41 MM	W. K'LKOR		1	PHH_0-1_3 HO-03	COTTIREN
-	+ - + - +	Actives	FIGH, OF SOLET		1	Ref 25-1_949-2	ROLL FM, TH X138, SFLF, 2P
-		AATHAT	KOLD DOWIN FM ROD		1	P948,944,940,2	CLANSPOLTST, JP
_			And the strength of the streng		1	R4_05-802	ECLP; SIT SHIFT
181	1	AA1825	EXENCINEMENT		1.2	548,6-53,948,448	BHOLALE FROM, SHDMA 258, 2P
	1.2	AAUSP1	MERRIS, 11H BLACK RASHC	32	1.	SPCRU254_SE-L21H	SPACER, 147, by CAM SPREASE
8	1	A AT SILS	COMPRESSIONS FROM		1	WISH \$254,KD-4,MRHSS	INVEHER PLAT, THE SE
	30	ALAS SEE	WILMER REVENCE - 34"		1.0	WARHINGTON-LUNCHSS	N/0467; R. K. 107, SS
18	2	ALADER	KOLD DOMMARM MISHER			NOH 01 01 01 01 01	WVGHER FLIC, 107, MILON
38	1	AA INS	LOGE, SEE MAN MANUER	41	1.	W0H4 8-1 8-4 5-8-7	NASHER, SPUTLOCE, SE, ZP





		A SS SM BLY F	483	2		ASSIMILY	Partis
TEM	4W	PVRTNO.	DESCRIPTION	(TBA	YTQ	PARTHO.	DESCRIPTION
1	1	SHIZAN C	BAGE LOS	37	1	A HARBER	MOTOR COVER ASSISTED BY
-3	1.1	MOZ ANI -C	DAVER THE	28	1	HENRIN A	ROLLUR
3	1	MINT AN C	PLATFORM	35	.1	HTHEM S	CLEVIS PM
4	1	3047.48 C	EXTENDED OF YOLE BAR		1	H100E 7	ALAMAN PLATE
1	<u>_1</u>	362766-C	HOLD DOWN WAS	31	1.	H434_33-4,71442	HEX HEAD THOSE I LON, 2P
4	1	\$157#B-C	SPERADER LAR LEACHET	33	1.	HK\$4,831-(.762	HEX HEAD THIS & 1.76, 2P
2	1	SID Z ANI -C	BAR, LOOK, IF W	11	1	HHC\$4,98/134,782	HEX HEAD 10-D #EXT, 2P
	2.4	ALM BEIERAD	ACUTADE	36	1	H4C94_8413-1_92	HEX HEAD 10-10 x 3.90, 2P
	1	ALM INCO	ROLLER FOM UNW	15		HWIS-14-6,752	HEXWASHER, IT'N SELF DRILL, U.Y., 2P
18	1	ALM NOR	WE, ACTUATOR	16	1	HUT-4_38-384PhDCH-2	NUT, MYLOCK WHAT 2P
1	1	ALA: 006	STORER, OUTSIDELET	37	1	MULTER STATE AND CONTRACT STATES	THE R. C. MILLOCK, MILLS, Z.P.
10	1	ALA-IM-PLT	HOLD DOWN ARM ROD	36	3	MUTH SHIELDOCK-HTE-2	THEN HUT, MYLOCK, 113-13, 2P
10	3	ALATES	EXTENSION SPERING	35	3	MUT 4_SI-SHMLOCEZ	HUT, MYLOCK 10-10, ZP
14	1	ALM 39P1	HEERTS 1 TH BLACK BASTIC		2	MUTE STILMAZ	HE MA SET P
18	3.4	ALAI SES	COMPRESSION SPRING	41	1	HUT-IN-SHHMLOCHZ	HUT, HYLOCH, MILOCH, MILO 4, 3P
1	2.E	ALAI 3636	MYLINEAR NEVERINGS - IN *	42	1	P844_13-1_860468	COTTER PM
10	- 3	A AGE SP	HOLD DONN JEW MARKER	43	1	PH4_18-1_91-RP2	ROLL PHIL 316, SPLIT, 3P
	1 T	ALAI 408	RED REALECTOR	66		P844_31-4_1461.2	CLENSPH, 10" of L 3P
18	10 1	ALA:18E	HARDWAREPACK	45	1	RIVIII I-GG	RMET
3		ALAI NEW	HOLD DOWN FOOT	48	1	RR4_IB-RC2	E-CLP SH "SHAFT
21	24	ALAR BIE	LAIEL, SERVIL HAMER	42	- 30	\$1430-4_63-4_86-2	SHOLADER BOLT, SH DAA # 3.86, 2P
22	1	84634_3746-4_78-88	BUTTON HEAD, 38-W x 875, 66	41	1	SPCR4,354,38-4,3144	SPACER WITH TOAL SPENCE
22	234	BICS4_32-46-1_86-88-48P	BUT TOM HEAD 38-16 # 1.00 SG	48	1	WGH4_354_85-4_94-RH 88	WASHERFLID, T.C. SS
ж	3 1	BHC51634-4_88-69	BLUE TODA HEALD, MILES & XXX, SK, SKS		- B	WIGHT SH 1, SH 4, SH RH SS	WASHER FLAT, 127, 55
3	2.4	化酸量	STICHER, RATIORM	. S1	- 2 4 X	MA948_511_51-54	INVEHICR, FLAT, HE , MILLON
3	3.4	HERE	NON	53	1	MAHER-18-4-5-2	MASHER, SPUT-LOCK SH, 3P



	24 166	ASIES	ALLY PARTS			ASSEMBLY	
MIT NOT	OTY	PARTNO.	DESCRIPTION	TEM	YTD	PWRT NO.	DESCRIPTION
1	2400	A-1946938	MOTOR COVER ASSEMBLY, OUTSIDE LIFTS			BHCS-5-27-49-4 7865	BUTTON HEAD, 38-6 1875, 55
1	2.1	301-30406-C	NORR TURE	27	1	BICS-E 27-16-1 02-65-HP	BUTTON HEAD 30-16 a 140 SE
3	104	340 -3440 -C	OUTER TUBE		- 1	HIRIE	JCAM
4	2.4	303-3A3M-C	A. HEPLATFORM	2	4	HHEM	ROLLER
5	101	304-3040F-00E	EXTENDED CRADLE BAR		1.1	1142-45	CLEW SPIN
	S.4	345-MAR-DE	HOLD DOWNARM	21	1	HKG64 第-8-4, 第-HPZ	HELD 低人口、包 - 使 工作用、2P
7	1	416-34.08-A	MINTLOAP FOR 18 OD STUD	20	1	HMGR 201-1,75-2	HE33HEAD, 181-32 x 1.75, 3P
	1	4163A38-A	FUNDER STRIP FOR AL1 ID	23	1	10034-0012-678-2	HEXHEAD, 10-10 stall, 2P
3	2.1	SH-3MI-C	SFREADER BAR DIRART	2	1	HIG54_843-1,8-2	HEXHEAD, 10-10 x 120, 3P
	3	303-3MM-C	BAR, LBAC, 31W			1002-11-2.2.2	HEX WASHER, PH SELF DEAL, 1.75, 3P
11	1	MISAME.	LONG HO LD DOWN FOO T		- 1	HUTH_25-36-HR10.0K-Z	HUT, HYLOCK, HI-JE, JP
10	1	MISAND-A	35"X 64 CRED REP. BOTHE STICKER	2		HUT-LEZ-W-HYLOCKHEEZ	HYLOCK HUT, THEN JAP 16, 3P
10	1	ALA 100 10PEM	ACLERTOR			HUT-0, SE-63-HOLOCK-HOE-2	THEN HUT, MYLOCK, 10-13, 2P
	1	ALANEER	FOLLER 2" DALLARIN		1	HATTE SE-SHMLOOK-Z	MUT, MYLOCK, 12-51, 2P
15	1	ALATERS	SAB, ACTINGOR		1	MUTER AT ANY 2	HUT, AM, SB-H, ZP
	1	ALATEONS	STICKER, OUTSIDE LIFT		1	PHH 8-1_9-00-65	COTTIR PIN
17	1	ALATERPLT	HOLD DOWNARM FD D	0	1	PH4_22-1_566P-2	ROLL RH THX 1 SPUT 3P
	1	ANES	EXTENSION SPENS	<u>e</u>	1	PH4 SH-1 INCL-2	CLEVE PHL 10% 21, 3P
	1 1	ALAUSA	MEERIS, 11H BLACK R. 46'D C			RM4L-8-L574_8-86	IN PRIVET, STP LONG WITH JE 'HEAD IS
	4	ALATIEN	COMPRESSION SPENG			BR-6_61-60-2	ECLE SP SWFT
H	1	ALATER	HYLDHEAR BEARBACE - 3 H		1	SHELES-187	HOLL DER BOLT SHOW : 154 2P
33	1	ALA DE SIP	HOLD DOWN APAINWAPER	0	1	SECR-6.25-6.21-H	SPACER, 1H*, Isr CAM (PRINCE)
3	1	AAB	HARDWARE FACK	-		WAHE BE D-E MAHR	WORR, R.A. T.C. S
H	1	ALAISSE STP.	(CARLIG SP (PH) HIS (CR/HD)			W-0H4_04_04_040H-06	WOIGER, R. K. 17. S
	1	ALASH SEC	LADEL, SERVIL HUMBER	-		MADHESE1_SE-E_12H	MASHER, RAT 10 SHILDH
						MARKE 631 JA-4 1691-7	MYSHER, SR. ITL.OCK, SH., JP





		ASSEMBLY I	wats .		1.000	ASEMED	HATS
(TEM	9TY	PVRTHO.	DESCRIPTION	(IEM	979	PARE NO.	DESCRIPTION
1	1	381+2A46+C	HIGH LEE	34	- CT	HHDE	CLEMB PIN
1	10	30-3460	OL/TER TUBE	25	321	HHH	A LIMMUN R. KE
1	1	383-33/840	PLOFORM		1	16 00 000	LIFTHING, O-STRANT- ILLE
.	10	304-3A84-C	EXTENDED CRIFICLE BVR	9	1	HOWING	RIGHTHAND, GETRIANT - BLUE
1	1	SH-3AM-C	SPREADER BAR BRACKET		1	HK\$4,353F4,754P7	HEX HEAD, \$44 38 x 87 5, 3P
40	1.	ALA WEWFIELD	AGUIATOR	3	1	HHGH_\$536-1_762	HEX HEAD, 14-38 a 1/7 B, 3P
2.	1.	ALA-WHEE	ROLLERS "Den Under		1	104334_001346_762	HEX HEAD, NO-10 & L7 5, 3P
1	1	ALA TINDE	TABLACTUATOR	21	2	14434_39134_672	HEX HEAD, 10-10 X8 JR, 2P
1.	1	ALA 1999	STICHER, OUTSIDEUFT	12	1	HHCS-4_\$H-13-3_\$H-2	HEX HEAD, NO-10+114, 3P
	1	ALATHER	EXTERSION SPEND	10	4	HMTS-14-4,75-2	HEX MASHER, IN SELFDERL, S.M. 2P
11	1	ALA 1408	RED REPLECTOR	34	24	N/F4_35-3HM1006-2	HUT, HYLOCK, 1H3 8, 3P
15	1	ALA 100	HARDWARE PACK	1	- 10 - I	HUTH_37-IH-WILCOCK#TE-2	THEN HALF, MYLOCK, 385-16, 3P
13	1	ALASSIS	PATENT STICKER	- 26	4	HUTH SEVENILOCICHTE-2	THEN HULL IN LOCK, 10-10, 2P
14	1	ALASH	LHOLTH/RDW/RE NT	v	1	H/F 6_SE-SHWLOCKZ	HUT, HYLOCK, 10-13, 3P
15	1	AL ARE DADC	ANCHOR PLATE	38	1	HUT-ING HHYLOCK Z	HUT, HYL OOK, MINOL 3P
16	.1.	ALAJIMU	LIER, SERVI KANER		1	P046_12-1_9H0046	COTTOR PIN
12	10	BHCS6_37464_7668	BUTTON HEAD, 3 IN W & 675, 55		1	PHILIPALIFIC	CLEVISPIN, 10 1/1 2 L, ZP
18	1	BICS4J374F-034654P	BUTTO HHERD 3 IF W # 1.00 SS	41	- F.	RIV-IIII-64	RIVET
18	1	BHCS-BOI-4_SHSS	BUTTOHEAD PHILIAS SES	43	1	RAUBACZ	E-CLP; SIF SWFT
26	1	HE MORE	STICKER; RATIORM	4	- 24	\$PCR4_314_31-4_3144	SPACER, 10", IN CAM SPRINGS
11	1	HERE	3-CM		1	MAR4 6 35-6 55-4 34 FM 52	MASHER, RAT, W, SE
22	1	30 GAUTA	MOTO ROOVERASSEMILY	4	1	MASH459-184-484-5H50	MASHER, RAT, 12", 55
31	1	15 6541	ROLUR		- 6	MVSH4_SH1_SH4_15-H	WASHER RAT 10", HILDH



		RESEMPLY	PWRTE	1		REM	VPWRITE:
UEM	YTD	PWRTHO.	DESCRIPTION	(IEM	QTY	PVRTMO.	DESCRIPTION
10	10	301-340 B-C	MAR LOC	11	1	38-3414	MOTOR CONFRAGEMENT
1	1	303-3NI HC	OVER THE	25	1	1111 407	ALMONN RATE
3	1	385-3964-0	PLATFORM	22	1	HORIS	LEFTHAND, Q-STRANT-BLUE
	1	394-398-60	EDUBHDEDCRADLEBAR	11	1	108.10	RECEIPTION OF COMPANY - IL LE
1	1	8H-3N-6C	SPREADER EVE BRACKET	н	1	HIGH_8114_34P4	HEX HEAD, SHI LA LZ, 2P
1	1	ALAI INVIPEID	ACL/MOR		1	HK54,98-13-1,78-2	HEX HEAD, 10-13 + 178, 2P
2	10	ALA-WHEEL	ROLLER FOR UNAW		1	HK54 9-1-1 (PZ	HEX1640, 10-0 XLAL 3P
1	10	ALA-10000	THE, ACTUATOR		1	HK54,51-11-1,51-Z	HEX HEAD, 10-13+154, 2P
1	- 1 ·	ALA 1989	STICHER, OUTSIDEL IFT			HIS \$144, 752	HEXIMPER HIM ELF DEL, MILT
	1	ALANEM	RED REA. SCIOR			NUT-LET-WHITLOCHITEZ	THINK HYLOCK, SHIE, SP
11	1	AA TI SRI	THUNCLE 12" SPEND POWSEY				
11	1	ALA-188	HIRDINAFEPICK		4	HULF & SHOW TO CHARTER	THEN INT, INVLOCE, 10-10, 3P
11		ALASIER	PATENTSTICKER	31	1	HUTH_SIME-MILOCK-2	HUT, HYLOCK, 18-18, 3P
*	10	ALASH	UNIOLTHW/PEW/PE KIT	10	1	MUTHE-DH-HELOCK-Z	HUT, HYLOCK, MIL-10, 21P
15	10	A.40040	MCHOR RATE	Ш	1	RH4_10-1,9-00-98	COTTER PM
	1	ALAMON	LAIEL, SERVIL HUMIER	ы	12	P8H6_SH-3_BH-CL-Z	CLEWEPH, 12" 1 7 L 3F
ø	1.5	8434 374 4,7646	BUTTON HEAD, 38-16 a LPS, 55	35	1	P3V-100-66	FINET
1	1	8469-834-4,5145	BUTTOM HEAD, MIL-34 X 8.98, SS	3	\$	WSH4_SPI_W-4_WRHS	MARER RAT, 127, 55
	4	HUM	STICHER, R. KIFORM	ø	1	MANIE SP1 SP4 124	WARER RATING WILDH





		· 终端 Mill Y	wars -			A.8864 B.Y	PWRTE
TEM .	071	PARTINO.	DESCRIPTION	TEM	077	INRTHO.	CESCRIPTION
.1	- 1	2 81-2A.06-C	MERTURE	ы	1	HOUTH	ALLANDA, M SKIM SPOT.
3	1	3853846	OUTER TUBE	3	1	HOURST	ALSEDI. FROMTWHER, GRADE
3	1	2 83-24.89-C	RATFORM	24	3	HALE WIDE	LEFTHARD, Q-STRANT-BLUE
4		SINGAR-C	SPREADER MAR IRVOKET	12	. 3	HUTS	FIGHT HAND ONTRIMIT-BLUE
3	1	ALSIN	MICHOR PLATE, 27.00	- 3	1. C	HEZE EXH.	ALSO DI BUEMED GALLERAR
	1	ALAIM HERVI	KUNNER		1	H4C84,35-384,764P-2	HEX HEAD, 1943 B & L76, 2P
7	1	ALCONE 31	ROLLER 2" D ALAM W		1	HH034_3536-1,752	HEX HEAD, WHO IS a 176, 2P
	1	ALKIE SI	MA ACTIVIDE	31	- A	HH03-4_58-40-4_762	HEX HEAD, 10-13 a 8.76, 2P
	1	ALASE SI	STICKER; OUTSIDEL IFT	10	S3	14434_54/3-1,962	HEK HEAD, 10-13 a 2.50, 2P
	- 3	ALAFIELS	EXTORS OF SPEND		34	HW15-14-4_75-2	HEX MASHER, \$14 SELF DELL, \$25,7P
31	.1	ALCHE M	RED REFLECTOR	ы	1	N/F6,353 MPLOCK-2	MUT MILOCK, 1H-38, 2P
-11	1	ALARE	HARDWARE PACK		10	HUTH 37-HHPYLOCHHITEZ	THE HUT HELDER, 3 IN-10, 2P
10	1	ALVER IN	PARAT STICKER		S.4	HUTH ST-SHALOCHATTEZ	THEN HAVE HELDOCK, 10-10, 2P
-14	1	ALARE	UNIOLTH/REMARK KIT	9	<u></u>	N/F4_BH15HPLOCK-2	MUT MILOCK, 10-0, ZP
-	1	AL/REA IN	URB, SERVINGER		Si	HUE-TEOH APRICODE Z	HUT, MALOCH, #18-34, 3P
1	-11	1403-4,37-48-4,7648	B/TTOHHEAD, 38-18 x 8.75, 9.9		1	PHH_10-1_9-00-95	COTER PM
10	1	BHCS-8_37-18-1_06556F	BUTT OHNE AD 38-16 # 1.00 SS		1	PHILS-1,0CL-2	CLEVE FIL TO STL ZP
1	3	8403-16-24-8,98-88	BUTTOMOGIND, BIR ON X LOD, SS	41	10	Rev-mass	RMET
	1	HTMEN	STROOT, PLATFORM		3	RHIJBECZ	ECLE; S IF SHIFT
1	1	HTER	ACAM	4	1	SPCR4_SF4_SF4_TH	SPACER, 107, SECAN SPENDS
Ħ	1	3853421-4	MOTOR COVER ASSEMBLE		.1	MASHIE SHE KHE MARKS	MASHER, RUC, 117, SS
22	1	ACHIEVE .	ROLLER		<u>_1</u>	NASH&SI-LIN-LINFRHSS	MASHER, RUC, 10, 58
23	1	HIBS	OEVEPH		S. 4 - 1	M94891945H	MARKER, RUE, 107, MILLON



		ASSEMBLY	ARTS .			AREMEN	科教育
MAI	YTD	PARTINO.	DESCRIPTION	TTM	YTD	BARTHO.	DESCRIPTION
ा –	3 1	301-127406-02	HACE THE	12	1	HWD	ALLMINM FLATE
3	1	D-8456.00	OUTER TUBE		2	HINKI KI	LEFT HARD, Q-STRANT -BLUE
1	2.4	38 3ZAB-C	PLATFORM	34	1	108.10	PEGHTHWARD, Q -STREAMT - BLUE
4	1	AAN PREMI	ACUTATOR		1	H034 2344 26PZ	HEXHEAD, 14-30 : 675, 3P
8	1	A. AL BEED	FOLLER PDM UNMY	- B	1	1005425-31-121-2	HEIGHEAD, 14-38 = 175, 3P
1	1	A. AL BIDS	THE, ACTUATOR	10		10054 5-0-4 72	HEXHEAD, 10-10+1275, 2P
1	1	A. AL BUE	STICKER, OUTSIDE LIFT	- Co.		10054 9-0-1 9-2	HEXNEAD, 10-10:154, 3P
1	- 1	ALAH EK	EXCEPTION SEPARA		-	HMTS-W-4.752	HEX WASHER, & W SEL FOREL, LTS, 2P
1	- 324	A. A1 408	RED REPLECTOR			and the second sec	
	- 1	ALA:WE	HARDNAREPYCK	3	1	HUT-4_28-48-494LOCK-2	HUT, HYLOCK, 1H-18, 2P
11	1	A.45.000	PATENTINGKIR	31	•	HUTH_SHISHNLOCKHTEZ	THE HUT HYLOCK, 10-13, 2P
10	- C1	ALASH	U-BOLTHARDWARE KIT	30	1	NUT-1_SI-0-WILCOK-2	HUT, HYLOCK, 10-13, ZP
10	1	ALASEN BC	ANCHORBATE	33	1.	MUTH-SHMYLOCK-2	MUE MUDDIE, MIERA, 2P
*	1	A.6486	LABOR, SERVIL HUMER	- M	1.	PBHL13-1_SI-CO-65	COTTER PIN
16	1	BHC54 2-18-1 (B-654P)	BUTTON HEAD 38-18 a 194 SS	- 3	1	P844_54-3_64-02	CLENS PH, 10"1 3" L ZP
16	3	BICS-81-31-4,51455	BUTTON HEAD HE-M X LOB, SS		- NC -	RIVI IN GG	RMET
9	1	HT SEE BE	STERER RATION	10	30	RR4_634COZ	E-CLIP, S IP SHW/T
1	.1	HTWID	JOM	(1) 10 (1)	1	IPCR4_354_38-4_3FM	SPACER, 1H", BECAMSPRINGS
1	- 24	3042A01-A	MOTOR COVERABIEMELY	30	10	MARIA 25-6 ET-6 INFRISS	MAGHER FLAT, WY, SS
36	1	1110 44	ROLLER		1	MADE 4 SET M -4, MERIES	WISHER FLAT, 127, 55
21	1	HHE	CLOVIS PIN	41	4	WADH4_SE-1.SE-6_13H	INVEHIR, FLAT, 107, MILO H







		11.254	BL/YHR/TB			A180	ALC: HR/18
TEN .	077	NRTING	160 (FP 10)	FEM	077	NRTIN.	DECOPION
1.	- E	21-2.46-C	1448 TAB		1	389 3991A	MOTORICONE RUBBE MILLY
10	t .	202ABC	OUTUR TAKE		1	F-Scool P-1	TRANSLE SPERIOP RALOF SITTING BLUE
10.1	- t -	262ABC	HIGLD DOWNARM		1	Mana	LIN DAMPEREND CAP
4	- t	262ABC	FORMEDHIOLDOOMN /FM BR/CHEP		1	HIGH 2526-1754P-2	HEX HERD, WHAT X 8,76, 3P
1	- t	29-243A	PLATFORM ADDE MILY	31	1	HICSE 2535 / 752	HEXHERD, WHAT X 1/10, 3P
1	8	AADIR	FORM RUBERE (REP-ID= LONE	22	3	HICH 843-3 982	HEXPERD, 10-10 X 3.00, 3P
1	- t -	AAUDURED	ACUTATION		. 4	HW10-14-8-76-2	HER MOHER, MILSELF DALL, 175, 2P
1	t	AAIIIID	ROLLER 2"Delutering	- 24	1	HUTE 25264/LOCK2	NUT, MILLOCH, 19438, 2P
1.	1	AAmin	THE ACTUATION		. 4	HUTE BIDANLOCK2	MER, MILLOCH, 10-10, 2P
	1	AAMM	STICKER, OUTSIDELIFT	3	1	FB-8 13-1 Sh CO-85	COTTERPOR
	3	AANDE	ECTEMBER STRATE	20	101	PRIA IN-8 INCL-2	CLIVERS, STX FL P
12		A.410	KAREDWIJE PACK		3	BHC2-4 2526-1 252	BIO, 143033-16*, 3*
18		A.Amati	LABEL, SIPAL NUMBE		201	IPCR-8 354 St-8 31-M	SPACER, SP, IN CAN SPIRIOD
94	. 1	BICD-8 37-16-1 80-30-14*	BUTTON HEVE DB - 16 X1,802.0	2	ं ३	WUSH4 264 K5-6 84 WHSE	M.SHEP, FLAT, 197, 58
18	3	COLLAR-1 264H-OP-2	SHIFT COLLIR, MOP BORE	31	30 - C	MADIA SHI MA 2 - BIS2	M.SHIP, FLAT, 107, 53
16	1	HURS	JCAN	33	4	WARKS SET BO-8 124	WHERE, FLID, 107, MILLOW

Exploded Views SECTION 2 : INSTALLER



		A.50 EM	ALLY PARTS				M BLYPARES
194	CT Y	PRET NO.	DELCRIPTION	FEW.	011	FIRTIO.	EXCEPTION
1.	1	201-248-C	1418 3.1K		1	28534,014	MOTOR COVER ASSEMBLY
1		30-248-C	OUT BR TUBE	18	1	P SECONDECT.	THINKLE SPIRIN RELIGION DIPPOLITURE
1	4	285-2414-C	KOLD DOWN /FM	18	1	H/ND/ND	120 DAME TEREND CAP
4	4	286-2403-C	FORMED HOLDDOWN ARM BRILDET		1	HICS 1 2526-1 754/F2	HE33HBAD, 1943H X 8.78, 2P
1	4	215-20164	FLAT FORM A SHEAR D	31	1	HHICH-8 25/25-11 75-2	HEX HEAD, 10438 X 1.70, 2P
1	8.	AA SHIRE	FORM RUBBER (RUP 10) LONG	10	1	548 5-6148 5-6344	HE33464D, 1010 X 1.88, 2P
1	1	AA100165313	ALVALA	31	- 4	HV10-16-8 25-2	HER. NATIONAL, MILLING AND
	1	ALA/1882	ROLLER PERADAW	×	- 1	NUH SIGNALOCK2	NUT, MYLOOK, 19438, 2.P
		ALA:1888	MA ACTIVE OR	1	- 3	NUTE SHIGHTLOOK 2	M/T, MYLOOK, 10-RJ, 2 P
18	1	ALC: INC.	STICHER, OUTSIDE LIFT		101	P841 10-1 SI-0045	COTERPIN
11	2	AAmes	EC BASICAL SPRING	12	1	PINE SH-0 INCL-2	CLEMB FM, NOT X IT L 3P
12		AA/III	MADWREPH.CK		3	540.9-4 2626-0 262	9403, 9438 X3497, 3P
	- t	A.J. INNE	LANL, SERVIL NUMBER		24	SPCINE 2NE SIL- E 2141	SPICER, THY, IS FOLM SPERIOR
14		BRCD-R ZIVID-1 BEDDAP	BUTCHPEAD 38 - 18 X 1*		3	WOHL 2H K-I HERD	WYOHER, FLAT, SHI', SO
18	3	COLURN 266H-OP2	SHAFTCOLLIN, MIN "NORE	31	1.1	NVEHI SH SHARES	WYOHER; FLIC, 107; SO
18	8	65.00	JCINI	10	4	MASH4 201 20-8 124	WASHER, RUE, NOT, MYLCH





KM.	OW	FART NO.	DEBORI PROM	11646	QTI'	PART HG.	DESCRIPTION
1		200-1A15A	PLATFORM ADDIMULY		1	HIDDHO	STICKER, THAPMAP
2	1	210-3401A	NO TO R COVER, MISSEMBLY, OUTSIDE LIFTS		1	HTIERE	JONE
3	1	301-3M4C	HAR ROW LINER TLIDE		1	HH268 25:35-8 75HP-2	HEX HEAD, 14-30 X 6 76, 2P
	1	263-3816C	OUTER TUBE	31	.1	HHC84 3549-1 35-2	HEX HEAD, 14-30 X 1.76, 2P
	+	240-1415A	DO CK AND LOCK ASSEMBLY	*		HHCS6 2746-1 25-2	HEX HEAD, 318-140X 1.35, 2P
	1	ALA10016REV2	ACUTINIDE	*	*	HICSE B-13-8 B-2	HEX HEAD, 10-10 X 2 IB, 3P
1	4	AAKE	ROLLER Z DALEMIN			HWTS-N-E ISZ	HEX WASHER, I'M SELF DRUL, 3Y'L, 3P
1					1	HUT-6 25-20H VLOCK-2	HUT-HYLCOX, 18-30, 2P
٠.	- 1	A.ABB	THE, AC TUATOR			HUTO STANK LOOK-T	HUT - HYLDICK, 3132-11 ZP
	1	A.ATOM	CUTIMORE STICKER	3	*	NUT & ID-13H VLOOD-E	NUT-WILCOX 10-19, 2P
	*	ALATESE	SKTEHOLOH SPRING		2	NUTIONANDO	HUT HILDOK 1884 JP
Ħ	1	A.AHOR	RED REFLECTOR	-	1	RH0 15-1 (8-00-68	COTTER PIN. IN
U	1	A.ATOM	LABE, PATHT PERCES	-	1	PH# 50-3 (0-CL-2	CLEVIC PH, 10"X 3.06 JP
10	1	ALA180	HARDWARE FACK		1	SPCRe 256 50-6 21-H	SPACER, 14"; FOR CAM SPRINGS
16		A.4896	LANEL SERIAL HUMBER	*		WASH 0 15-0 KB-0 04-RH68	WASHER, R.M. 17, 58
16	1	BHCS-0 37-88-1 05-934P	BUTTOH HOLD SH 4 KX 6.35 SH			MASH-0 37-0 40-0 16-F6468	WARHER, R.AT, STF X,50
	2	840 940 24-0 75-09	BUTTON HEAD, 18-34 X 675, 98		1	WASHE 30-1 26-0-00 FH-2	MASHER, FLAT, 10", 2
0	1	HE-1ASA	ON LHARDINARE PACK	-		WASH & SO-1 (80-0-1344	WASHER FLAT 10, H LON



		ACCENENT	MATE:			ARRESTEL Y PM	era (
NM.	QW	PART HO.	DESCRIPTION	17080	10 TV	PWITHO	DESCRIPTION
	1	25-1184	R.APCHE ASSESSLY			HOWEA	CHIL HAPICHIAPE PACK
3	1	A RING BEE	MOTOR COVER, ASSEMBLY, OUTSIDE LIFTS	30	1	HTML	1 CAN
	1	3H ZMB C	HAPPENE BRENTILES	21	1	HICSE 2020-0 76HPC	HEX.H BAD, 384-300X 384 %, 374
	1	38 EARC	OUTER YOR	- 23	2 4	H426-0 38-8-8782	HEX HEAD, 14.40 St.38, 29
	1	NOWEA	D ODX AND L ODX ARRENDLY	23	1	HI264 363-1762	HEX HEAD, 14-DE ST. 261, 2P
	3	MANA	COL. MILAN	34		HHC6-0 21/W-1 80-2	HEX HEAD, 38-18 21.05, 2P
	1	TRIANC	CASTIR MINOR	28	3	H406-0 40-0-3 60-2	HEX HEAD, 10-10 X 3 JUL, 3P
	1	MARCEPEVI	ACIDATOR	- 38	4	HIP TO 16-0 TO 2	HEX WARHER, I'M BELF CPULL, SH'L, 27
-				27	30	HUTE 25 25 MILOCKE	HU T, HYL (30%, 116-30, 523*
	1	ALA MILIO	HOLLER 7 ON UNIT	28	3	HUTE2030-HMLDCKE	HUT, HYL CCH, 148-30, 27*
	2016	ALA KO BE	TAB ACTUATOR	30	4	HUTE 33 WHYLOCKE	HUT HALOCK, 38-18 27 GRADE I
-	- t	AL A TELE	STICKER, CUTSION	30	3	HUTE IS DIMOCKE	HUT, HYLICK, \$313, 2F STEEL
	3	AL ATRON	BOTEMERCH SPHERE	31		P84-0 10-1 80C 048	COTTIN PR, ME
	1	ALANER	PEO PALACE VE STC NA	33		PRO BA DOCLE	CLEMIS PH, 107 X 3.20, 2P
		ALATRI	LABEL, WIEHT PERCENT	33	- 1	IPCR # 26 8-0318	SPACER, SKY BY CAM SPR MORE
	1	MAWE	HAND MAR & MCR	34	3	WASHE 38-0 83-0 26-PH-08	WARHER, PLAC 147, IOS
		AL ANNI ME	LANGL, SITE AL HARBER	38	4	MARHE 37 6 83-6 IB-PH-IB	SIMOHER, PLAC, 387, SIL
	3	BHCS10_20020-1 05-58	BUTTON H BAD, 18-4531 1.05, 55	38			MARHER, PLAT, 107, 2
	. 1	MACK & STATUS COMMAND	BUTTO H HEAD 2 IS 10 XX 70 XX	37			SMARHER, PLAC 101 PLACEC





	ASSEMILY PARTS					ADDIMULY PARTS					
пты	OTY	PWRT NO.	DESCRIPTION	ПТМ	OTY	PART NO.	D ESCRIPTION				
1.	1	D-8045-PE	POER TUBE		3 1	H14045	CLEWIS PIN				
2	1	D-BAS-BE	OU TER TUBE	21		H\$30110	RAMP PAD				
1	1	268-2008-C	PLATORM	2	- C 1	HEADARN	THANKLE SPRINGPINASSY 36" RH, BLUE				
4	1	206-2A10-C	HOLD D OWH APM	3	- 21	HEFTON ON	"ENTIR "STICKER				
5	1	306-ZA10-C	FORMED HIGLD DOWN ARM BRACKET	34	2	105210	LES DAMETER END CAP				
	1	ALACES	FOAM FUEDER GREP 12h LONG	2	- 34	101250 2420-0 262	HICHIGAD, 164-20X 675, 2P				
1	1	ALA 10 010 FEV2	ACU TREOR	- 30	- 53	10123-0 25-25-1 75-2	HEKHEND, 18-20X 175,2P				
	4	ALAIGE	ROLLER 2" DA UNMIN	17	2	HHOSE \$143-2 \$5-2	HICKHIGAD, 10-43X 254,27				
	1	ALAIDO	THE ACTUATOR	28		INTS-N-075Z	HEX WASHER, #W SELFO FILL, 6 75, 2P				
10	1	ALNER	STOOR, OUTSIDELIFT	39	B	HULL BESHULDING	HUT, HYLOCK, 14-30, 27				
11	2	A.ATROS	EXTENSION SPRING	30	1	HUT-0 10-13HMLOOK-Z	HUT, H'YLOOK, 10-10, 2P				
	1	ALMER	RED REPLECTIVE STICKER	H	1	P9H0 13-1 80-00-58	CO TTER PM				
15	1	ALAND	HARDHARE PACK		- 11	P840 50-3 00-CL-Z	CLEVIS PH, 10" X 3" L, 2P				
	1	ALAGS	LADEL, SEPAAL HUMBER	35	. 4	RIV-18455	RMET				
15	- 1	DHC5-0 37-10-1 0065-HP	BUTTON HEAD 38-18-L 05-SS	34	2	PR-0 60-EC-Z	E-CLIP, SE"SHAFT				
16	2	540+4811 158H-0P2	SHAFTCOLLAR, 1-14" ID RE		2	54054 2-25-5 25-2	\$HOS, 1H-30 X 3-1H"; 3P				
۹7	1	HIDE	1-CAM	36	2	MAGH-0 25-0 55-0 07-791-55	WALHER, TLAT, TY, SS				
18	1	206-3401-A	MOTOR COVER ASSEMBLY	12	5	MAGH-0 S0-1 37-0 12-701-555	MACHER, R.AT, 17, 55				
10	1	HHDI4	ROLLIR		- 4	MACHE S-I S-013-RHP	WACHER, R.A. 10", PLASTIC				



		ASSEMBLY P	APTS		ASIEWILY PAPER				
TEM .	OTY	PART HO	DESCRIPTION	ITTEM	OTY	FINIT HO.	DESC RIP'S CH		
10	1	301-2A05-C	BOER TURE		- A	1114045	CLEVIS PM		
1	1	38F-ZANI-C	OU TER TUBE	21	1	HEADTLD	RAMP RAD		
3	1	365-2007-C	PLATORM	2	1	H BOHONE 1	THANKLE SPEEING PREASON & P. P. BLUE		
4	1	305-ZA10-C	HOLD DO WH APM	3	.1	HETOLOG	TOTEPSTICIE		
5	1	308-ZA43-C	FORMED HOLD DOWN ARM BRACKET	24	1	N521@	1.25 DAMETER DHD CAP		
6	1	ALACISED	FOAM PUBLIER GRIP 12th LONG	3	- 1	10105-0 2520-0 78-2	HEX HEAD, \$420X 675, 3P		
1	1	ALA100-10 PEV2	ACUITATOR	20	1	10105-0 1520-1 78-Z	HEX HEAD, \$420X 175, 3P		
	1	ALA1082	ROWER 2" DA UNIM		2	10103-0 5013-2 50-2	HEX HEAD, \$343X 254, 3P		
	1	ALA1020	TAB, ACTUATOR		4	1WITS-H-0 75-2	HEX WASHER, #14 SELF DRILL, 0.78, 2P		
10	1	ALA1005	STICHER, OUTSIDE LIFT	20	1	HUT-0 28-29H YLOOK-Z	HUT, HYLOOK, 1H-29, 2P		
11	2	ALM 1025	INTENSION SERIES		2	HUT-0 30-13H YLOOK-Z	HUT, HYLDOK, 12-13, 2P		
	1	ALA140IS	RED REPLECTIVE STICKER	21	- 3 1 -	PHI0 13-1 50-00-55	COTTERPH		
15	1	ALA180	HAPENNARE PACK	- #2	- (1	PHI 50-3 00-CL-Z	CLEVIS PH, 12"X J"L, 3P		
	1	ALASSES	LADEL, SEPAL HUMBER		. 4.	PEV-884-05	RMET		
	1	BHCS-0 37-16-1 00-05HP	BUTTOH HEAD 38-16-18655	м	1	RR-0 88-602	EQ.P. SPORT		
16	1	COLLARY 25-6H-OP-Z	SHAFTCOLLAR, 1-14 'BORE		1	\$4034 21-26-3 26-2	\$HC5, 18-40 X 3-47, 2P		
T	1	HT10/10	FOAM		2	MAGH-0 25-0 35-0 07-791-05	MASHER, FLAT, 1HP, SS		
	1	2002A01-A	NO TOR COMER ASSEMBLY	N.	5	MAGH-0 50-1 37-0 12-F91-05	WASHER, FLAT, 10", SS		
15	1	HHOM	ROLLER		4	MASHE SHI S-0 13-FHP	WARHER, FLAT, 127, PLASTIC		



SECTION 2 : INSTALLER

Exploded Views



		A 3065-W 2	T PARTO ALGORIDO.		1.1.1.1.1	A 3061-10	TYNKTO KLINDER
FIN .	110	PART NG	DB OF TO	TIN	an .	NHT NG	D 201FTD
(1)	1	200-2001-6	MOTOR COASE, HOLE AS D, CATOLOG LIFTE	21	1	100	CLEMEPS
1	1	2912496 C	BB (R.Tatt)	22	1 .	HADREN	THE REAL PRIME PRIME IN THE REAL
3	1	2020KBC	04/8 K/1088	20	8	6000	THE PERSON AND A P
4	1	20-204-C	FLICFORM	21	1	H6/19/82	Te.RC 2 1028 R
1	1	26-204C	HOLD CONN HIM - THE	25	1	6762182	125 DAVETE RENDCHF
	1	362600	FORME DHOLD DON NUMBER BRUCKET	28	1	HIGH_2529-4_7549-2	16 2 16 45, 16 28 (8.7), 2P
1	1	ND 3404	JP 2. BUP RED REPLICITIE OF EXER	27	1	HOM 2529-1,752	16 2 16 45 19 20 U.S. 2P
1	- 8	80810634	FORERCIVE OF ETOER	3	2	10034_00-0_002	HE 214 HE 10/10 (2.5), 7
	1	ALADIBA	FORM ROBER KORP 12N EMD	29	4	HMT 816-6_752	HER MID HER, I'V D ELF DRIL, 1.75, 29
18	1	6.400 DF 12	ICTUROR.		3	NUMA_25-25-47 (DCR)2	NUT NTLCC, 104 24, 29
10	.1.	AL#1987	RELEAR 2" DALIVERY	31	2	HUTO_SELENT DCX2	BUT BITLICE, 102 CT, 29
10	T.	ALKING	the, actualities	22	1	PH 1/2-1_30:00-88	COTTERMS
	. 1	ALAIDE	B TROM R, ON/TROM LIFT	33	1	P 840,50-0,10 (2-2	CLEME PRI 107 1 7 1 7
14	2	6.6103	6 ITENDEDAUPRINE	34	2	880,0802	ECUERS STREET
18	8	8.44.188	HIREDWEE PICK	25	2	9634,2529-1,257	26(0), 19(3) (3-197, 29
18	1	AL/MINDS	LIGHT, SERIEL MARE R	38	1	IPCR0,254,584,218	IPACER, 107, No GAME PRIVES
10	1	1H34_7464_0484P	BUTTION HE AD ONE-HE VILLE SE	22	2	NUM LOG UP A UN PH SH	NO. 20 E. R. M. M. W. S. S.
18	2	COLLINE, 25-04-09-2	BRIEFT COLLIER, 1-THY BORE		1	MARKED CONTRACTOR INC.	No. 246 6, PLAT, 107, 2 8
18	1.	erias -	1 CM			W10H435138-635467	INGHER, PLIC, 107 /FURTIC
28	1	and a	ROLER				

Exploded Views SECTION 2 : INSTALLER



1.17	10 million (1997)	4 10E M	U HIRE A 465-05		0.000.000	/006	NOLY PRETS ALIGNESS
TRN .	GT	HIT NO.	DEC NPT ICK	158	9ftr	PART NG	DE CRIPTICA
1	1	200-24-81-4	MOTORICOVER, VEISENBLY, OUTSIDE LIFTS	21	1	HTHERE .	ROLLER
2	1	2012A39C	KM RTURE	21	1	HIBB	CLEME PRI
1	1	200-24/18 C	OUTER THE E	22	1	- HSHORE, S	THREELE SPRING PROVIDED SHITP IN BLUE
4	1	2052(45C	RUCFORM	23	1	16/10/01	TATER? STICKER
1	1	262064C	HIGLD DOMMIN Rel - 108	24	1	HERE	THERE STREET
	1	28624/9 C	FORMERFILD DOWN HIM INVESTIG	20	1	N/12182	125 DAME TERE NO CAP
1	1	ND DAID A	21 XXXII YE DRIFTLECTING STROOM	a	1	HC\$0,2526-0,754P-2	HE KHE HEL 16/20 1.75,2 P
i.	1	MIR-14/2 A	POINTRE CHURCHER STROLE R	2	- T	HHC84,2528-1,752	HETHERE THOSE UTILITY
î.	1	6.6009	FOLMELE BER (REF 12% LODO	28	2	HHC84_98/0-2_982	HE SHE KE, 10-13 4 2.5K,2 P
÷.	1	AA WIRED	ACTUATOR	- 29	4	HWS-164_752	HE STAND HER, BIN SELF CHEL, ILTUP P
10	1	A.#1000	KOLLING DALVAN		1	N/14_26284Y2C82	M/G M/LOG 10428, 2P
12		Arith	PLACEAGE	21	2	MULTIPLE AND COST	MUT MILLOC 10-10, 2P
10		Aristi	TICHE, C/DEGLET		1.	PH4_10-1_980048	COTTER PRIS
14	1.1	44120	ET ROLD STREE	23		Held Seid and Cold	CLEMB PR(107 x 71, 7P
-		APE	WIENNES HCL	. э	2	RFILIDHC-2	ECUPANISH SHUFT
					- 1	110312528-0252	BHC 5, 106 20 4 3 107 , 2P
18	1	4.46665	LINEL, S EPHILMIAN SR		1	P084,254,35-4,214	SPICER, INP, MCON SPENDO
4	.1	BIG-4,31/IB-1,IB-SBAP	ELFTCHHERE SHI'R (1.00 SE	12	2	1001425432-038100	NUME IS, PLUE, 1947, 581
18	3	COLLIER 1254HOP 2	SHIFT COLLAR, SHIP BORE		1	W0H4_5H1_374_124H48	NA.3HE K, FLAD, 107, 58
и.	1	MITHE	.C.W			MGH8,501,50-8,12-RHP	WEARING RUID, 107, RUID TOC





	ASSEMILY PARTS				AGENLIP/KB					
and the second	017	PART NO.	DESCRIPTION	17034	000	PWRTHO.	DISCRPTION			
1	1	210-0A/01-A	MOTOR COMER, ARRENDLY, OUTSIDE LIFTS	1	1	HE SAME A	HEHMADIMADEPICK.			
3	1	201420-00	BAR LEE	29		100.00	JCAM			
ं इ	1	2032A06-0	OUTER TUBE	30	1	1114 (Dist.	ROLL OR			
4	1	313-8445-0	AL10040 FLATFORM	31	1	HHDE	CLEVEPH			
्ड	- t -	20428-00	EXTINUED CRACLEBAR	32	1	1114407	ALLABAMPLICE			
- N		2058486-0	HOLD DONH ARM	33	1	HICSE 26254 75HP-2	HEXHEIRD, 10 4 20 X 8 JR, 2 P			
1	1	4 00-04.06-A	VIENL OVP FOR 1210 DS/IUD	34		10105-0 25-26-1 75-2	HEDHERD, # 4480 X 1.75, 2P			
	2	SE1-2A/8-0	SPERIOR OF DECKS	35	- 2	HHCS-8 58-65-8 75-2	HEXHERD, \$345X F.W, ZP			
	2	BE32A86-0	BAR, LBW, 218*	16	2	10(5-2 (8-4)-2 (8-2	HEIDHERD, #2481X 2.00, 2P			
		E CANALA	HD OUTSIDELL FTS TICKER	37		10/5-14-6752	HER MASHER, BH SELF DELL, KIN, 2P			
. 81	. 4	# 584-04.06-A	STICHER, R. AFORM	18	1	SHOOLIN-BEE STUH	HUT, HILDOK, WH 30, ZP			
. 12		AA18 1993/2	ACUTATION	18		HUED 35-IMPLOOK HEEZ	HYLOCK HUT, THEY JEH 6, 3P			
-10	1	AA18432	ROLLER IPDIA UNITY	48	2	HUT-F SHOUCK HEZ	THEN HERE, MYLLOOK, 10-45, 2P			
- 94	1	AAME	TAB, ACTUATOR	41	3	HUTE SHOLMLOOK2	HUT, HILOOK, 42-43, 2P			
		A ABBPLT	HOLD DONN ARM ROD	42	- 2	SML ING STUR	HUT, MAL SH-HL 3P			
	1	A.NIES	EXTENSION SPENG	43	- 2	HUTH HAN HELDOK/2	HUT, HYLOOK, WINES, 2P			
0	1	A ALS IPI	INGERTS, 11H BLACK PLACTO	44	1	F848 10-1 SECO48	COTTER PM			
	1	AA183	COMPRESSO HSPRING	45		P848 35-1 SHPP-2	ROLL FRI, 10 K X 1.50, SPUT, 3P			
	2	AA1955	HYLHEAR BEARINGS -3.H"	48	1	P848 38-3 IB-0.2	CLEVIS FLN, 187X J°L, 3P			
	2 B	ALA CASE P	HOLD DO NHI ARMI NAUPER	47		FBL-108-45	RIVET			
31	- t -	AADIS	STECKER, CAATEON, HOLD DOWNARD	48	1	RR4 10602	EC.P.SP SWPT			
-	- t	44168	FED FEAL BOTOR	4.9	1	9684 6-19-2	SHOULDER BOIL SHOW 258, 2P			
33	3 8	AA1 ED	HOLD DOWN FOOT	50	1	SPCR-8 258 SH-8 3H-H	SPACER, SH " BY CAM SPEEKSS			
31	4	AAME &	LABEL, SEPAL HUNSER	\$1		WARHE 258 83-8 DIRITIES	MAGHER, FLAT, SH 155			
25		B1054 27-844 75-98	BUTTON HEAD, BHI 6X 676, 55	52		WV6214 534 24-8-8 (8-7915)	WARHER, FLA, 42, 55			
		BHCSE 2515-1 BESHP	BUTT ON HEAD 364 BX: UM, SS	53	4	10.5H2 SH1 SH-0 13H	MAHER, R. A. SP. HILOH			
2	2	BKS-8-34-5 SE-56	BUTTON HEAD, WIR-JAIX B.S.	54	- 2	NV51-2 531 28-2.15	WARER PLF-LOCKER, JP			



	ASSEMILY PARTS				ASSAM BLY PARTS					
HEN!	97/	PVRT NO.	DESCRIPTION	(IE)	011/	PWRT NO.	DESCRIPTION			
1	1	THE-JPIEC.	31"MHORE PLATE	34	1	INDES	CLEVIS R H			
1	1	A PAG-BE	MOTO R CO VER, ASSEMBLY, OUTSIDE LIFTS	25	1	111407	ALLMOUMPLATE			
3	. 1	311-2446-0	BOUERTURE	26	2	HERE	LIFTHAND, GETFIANT-ELLE			
4	1	345-25-66	OUTERTUE		1	HERETE	RIGHT HIND, Q-STRINGT - BLUE			
8	1	38-34HC	HD RLAF OFM	- 34	1	1005123-05-0754P2	HEX HEAD, 1842 BX 67 5, 3P			
. 6	1	304-3A04-C	EXTENDED ORACLE EVE		3	HIOS-0 25215-1 75-2	HEKHERD, 1H26K 175, 2P			
1	2	81-3A8+0	SPREADER BAR BRACKET		2	HIG94 \$613-075-2	HECHERO, 1643X 675, 2P			
	1	A-ING-DB	HD OUTSIDE UPT STICKER	21	2	HICS-E SH3-E EF	HEX HEAD, 10-15 XILLE, 2P			
	1	MR-24/6-A	ST KINER, PLATFORM		1	H054 \$43-2 \$62	HECHERO, 10/13/(256, 3P			
	1	ALA 1010 FB/2	ACUTATION	30	4	10/TS-14-0 78-2	HEX MADIER, PHOSE FORM, 127, 2P			
11	1	ALA 1883	ROLLER 2" DALLAMM	34	1	HUTE 35-300/LOOK-2	HUT, MIL OCK, 1H21, 3P			
10	1	ALA 10E D	TAB, ACTUATOR			HUT-0 37-16-MIL OCK-HTE-2	HYLOCK HUT, THIN, 37 -16, 3P			
10	1	ALATHER	EXEMPTION SPENIG		4	HUT-0 SE-G-HILLOOK-HEE-2	THIN HUT, HYLOCK, 10-10, 2P			
-14	3.4	ALANERS	RED REFLECTOR		2	NUTE SHOULDOKZ	HUT, MILOCK, 10/13, 3P			
8	1	ALASINE	PARENT STICKER		2	HUT-THR HHMLOCK-Z	HUT, HYLOCK, PRI-34, 3P			
	1	ALASE	U-BOLT HARDINARE IN T		1	Re-0-10-1 (\$600-59	COTTER PW			
17	1	ALAMON S	LAGEL, SERIAL HUMBER	- 40	1	FR4-0 Sb-0 SBCL-2	0.0/16 PH, 12" X 2" L 2P			
18	1 1	BHC0-0 37-16-0 78-00	BUTTON HEAD, 36 -REX 6/5, 56	-41	1	FBL-188-50	RVET			
	1	EHC94 37/8-1 (646-HP	BUTTON HEAD 38 HEX 10095	4	2	FR-0 (0-602	EC.P.S.M.SHUT			
30	1	BHC9-1624-8 55-58	BUTTON HEAD, IN BAIL KE JE, SS	- 0	1	SPOR-0 25-0 58-0 21-H	SPACER, 14", In CAMSFERIOR			
21	1	A-HARCH	HD HWFDHWFEFYCK	44	2	MACHIE 25-0 KD-8 MATHIES	MASHER, FLAT, WF, SS			
32	1	HSDE	MADE		1	WADHE SET DE-E_ES-	NASHER, FLAT, 127, 99			
33	4	15.454	ROLLER		4	WADH-0 10-1 10-0 1344	MASHER, FLAT, 107, MILON			





		ASSEM	A MARTS COOLER TO CO
TEM .	071	INJE IO.	DESCRIPTION
1	1	AIGABLE	MOTOR CONER, ADRESSED, OUT SDE LIFTS
1	1	301-3A86C	BARR THE
3	1	38-3A9C	OVER THE
4	1	38-8490	XLID PLATFORM
\$	1	394-3A86C	ALIERS, FRONTWHEIL, CHAILE
	1	36-3A8-C	A 1001 DIEKED OM LEDR
7	4	SH-2AMC	PRODE DR ENCIET
1	1	10 30A41A	HD OUTSIDELIFTSTICIER
	1	III BOARDA	STICHER, FLATFORM
	1	ALSIN	ANCHOR PLATE, 27.00
**	1	AA INVESTO	ACUTATOR
12	1	AATHEE	ROLLER 2"DIALINGRY
15	1	AA 1960	THE, ACTUATION
*	3	AATHE	DISHEAN STREET
*	1	ALA HOME	RED REFLECTOR
	1	AASame	PATENTSTORE
10	1	AABB	U-BOLTHARDWARE NT
	1	AAME	LAIEL SIPAL HUBBR
		84554 27-98-8 7548	BUTTON HEAD 37-08 \$-75, 55
	1	BHCS6 37-8-4 38-88-4P	BUTTON HEADON - I JUSS
21	1	BICSI NOLE SHEE	BICS #INAL X3. IFLONG SIL
	1	HISAASA	HD HURDINAREPICK
	- 1	HIRS	JCM

	5210 MG	454	D' FARTS
m Bai	OTV.	HAT ID.	DESCRIPTION
ж	1	H162.44	ROLLER
3		1144	CLEVIEPIN
	1	108-0.0	ALLABRAN SHOL SHOL
2	4	NGANGE &	LEFT MAD, O-STRUMT+ BUE
	1	HORE	RECHTHINK, GATRIANT - BLUE
	1	HHCSe 3538-67549-2	HERHERD, SH-JUK 1/75, 2P
	1	HICS-0 25-26-1 75-2	HERHERD, SH-JB X 475, 2P
31	1	HICS-0 SH-SH-2 SHZ	HEXHERD, 10-10.X 154, 2P
22	4	HACSA BI-D-B 75-Z	HICS, 1343 SHI, GRADESZPETER,
33	.4	HT5-0-448 752	HEXWICHER, MU-HISELF DRLL, SH'L, 2P
	1	SOURFELS BUILDER	HUT HILDO, SH-30, 2P STEEL
8		NUT-6 ST-SHARLOOKARE-2	HILDOCK MATCHINE, SHARL ZP
	1	SOUND SHOWING STUR	HUT HILDO, 40-43, 2P STEEL
	4	N/54 SHOULDOGHTE?	TH HHUT, HILOCH, HE-IS, 3P
	1	NUT-ING HARLOCK-ES	WLOCK/INAKSS
	1	RH# 13-1 SICO45	COTTER PM
	1	FINA SINA MICLZ	CLEMB FLM, 1 (27)(37 L, 2P
41		PaU-408+ 59	HNE
•	2 C	RR4 1340-2	EC.R. SP BAR
6	1	BFCR-# 268 58-8 3148	SPACER, SI THE OWNERSHOP
44	1	NACHO 35-0 KD4 IMPRICS	WARHER, FLAT, SH", SH
4	1	WWEH4 SE-1 37-8 12-894 88	WALHER, R. 47, 50
	4	MARIE SHI SHE DANF	NAMER, RUE, 107, FLAMIC

Exploded Views SECTION 2 : INSTALLER



	ASSEMENT PARTS DESCRIPTION					ASSIGNEY	PARTS
EN.	anv	PARTHO.	DESCRIPTION	(EM		PARTHO.	DESCRIPTION
1	1	18-39340	2" ANCHOR PLATE	11	1.00	HINDIS	CLEVIS R H
1	1	ANAL-SEE	NO TOR COVER ASSEMBLY, OUTSIDE LIFTS	32	1	111467	ALLMOUNPLATE
1	1	29HZARHC	HARR TURE	- 23	1	150016	LEFTHAND, GOTFAMIT-OLUE
4	1	2002ABC	OVERTURE	34	1	HEADETHE	RECHTYWHID, CHISTRAMIT - ELLIE
\$	1	210-3W1-0	ID PLATFORM	25	1	19054 25-26-6 75HP-2	HEX HEAD, 1HH26X 675, 2P
	1	AING-GH	HD OUTSIDEL IFT STICKER	36	1	HHC54 241-1 76-2	HEX HEAD, 1HH20X 175, 2P
7	1	HE-3AKA	DINCKER, PLATFORM	37	- 4	HHCS-6 56/16-6 76-2	HEX HEAD, 18/13/X 675, 2P
1	1	ALAI DEIGAEV2	ACUTATION	28	1	141054 3615-2 38-2	HEX HEAD, 18H 3X 254, 2P
	4	ALA 1993	FOLLER 2" DAUHERY	- 29	4	10/05-14-0 76-2	HEX WASHER, I'M SELF DRALL, 6/6, 3
*	4	ALATER	THE, ACTUAD R	36	- 1 0	HUTE B-BHHYLOCK2	HUT, HILDOK, 1HEE, 2P
11	1	ALATIES	EXTENSION SPEEKS	21	4	HUTE B-B-HLOCKHEZ	THIN HUT, MILOOK, 10-10, 2P
12	1	ALAMER	RED REFLECTOR	32	1	HUTE SETERATIONS	HUT, HILOOK, 10/13, 2P
10		ALASIES	PATENTER CAR	33	1	HUTE-INE HHYLOCK-Z	HUT, HYLOCK, PRI-JA, 3P
1		ALASE	U-BOLTHWADINASE NT	34	1	P8+8 10-1 1000-69	COTTER PIN
8		ALABES		- 15	- 1 :	PBHE SD-8 SBCL-2	CLEVIS RH 10" X F L 2P
-			LADEL, SEFAL HUMBER	36	1	FBU- 198 - 56	RIVET
	1	BHCS-0 37-16-1 (B-05-HP	BUTTON HEAD IN - 16 X LOD DE	37	1	RR-0 @-EGZ	E-CLIP, SHI"SHIFT
0		BHCS-1644-8 SE-08	BUTTON HEAD, #10-34 X2-35, DE	30	1	SPCR-0 35-0 56-0 21-H	SPACER, 14", BYCAMSPRINGS
	1	HER-SAMEA	HD HVFDWARE PACK	38	1	MADHIE SEE KE-E DARHIS	MADER, FLAT, W", SO
	1	HTICE	YOW	48	5	NALEH & S61 26-8 0 -591-50	WADER, FLAT, 12", 99
3	.1	HHDH	ROLLER	41	4	NAGH40 5.0-1 50-0 1344	WASHER, R. AC. 10", MILON







TYPICAL HARDWARE PACK CONTENTS



ASSETATS						
TEM OTY		PARTINO.	DECRETION			
1	1	20 S 1604	INVERTINGLY FORM			
2	1	No.	ONNER SM (MANA)			
1		CT+++-BLK	ONLETTE M' BACK			
4	1	HERE	STANGE VEH OLE WHE HARHERS			
8	1	HICS-0 \$9434 \$9-2	HEX HEADCAPSCHERK #3-BX LSP1, 2P			
	1	M/5-F SHE-MLOCKZ	NUT, MILOCH, 1040, 3P			
8	1	34.914 514 14448 4912	WHER, R.F. 10"D X LHOD X J TH, JF			
1	3	SHREE 8-1 21-8 GRMZ	MAKER, RUE, 10"D X13P OD X LICEN, 3P			

Notes	



VEHICLE LIFTS THREE YEAR TRANSFERABLE LIMITED WARRANTY



PLEASE FILL OUT ALL FIELDS AND RETURN A COPY.

Fax completed form to 1-866-234-5680 or mail to Harmar, ATTN: Warranty Department, 2075 47th Street, Sarasota, Florida 34234. You may also register online at www.harmar.com. Keep a copy of this form for your records.

Harmar Mobility warrants its lift products against defects in material, mechanical and electrical components (parts), excluding labor cost, batteries, paint and covers, for a period of three (3) years from date of retail purchase, provided that the products have been installed, maintained and operated properly. This warranty does not cover defects in vehicles on which Harmar products are installed or defects in Harmar products caused by defects in any part of the vehicle upon which the product is installed. This warranty does not cover maintenance or adjustments. Harmar will not be charged for labor, consequential damage or repair expenses. Harmar will not, under any circumstances, be liable for the loss of the use of its products or loss of time. This warranty becomes null and void if the product has been lost, damaged by accident, over-stressed, misused and/ or neglected, or if the product has been modified in any way. Defective parts must be returned, prepaid, to Harmar at the address listed above, for inspection prior to credit, repair or replacement, at Harmar's option. Harmar's sole obligation and the exclusive remedy under this warranty is limited to such credit, repair or replacement.

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PRODUCT INFORMATION

x

PURCHASER INFORMATION

Model:	Name:		
Serial Number:	Address:		
Purchase Date:	1000		
INSTALLER INFORMATION	Phone:		
Company Name:	Email:		
Contact Name:		PRAATION	
Address:	ADDITIONAL INFORMATION How did you hear about Harmar?		
	Harmar Dealer	Friend or Acquaintance	
Phone:	Internet	Saw Harmar product somewhere	
Fax:	Magazine	Other	
Email:	TTTINGT.		
Lingu	── Do you have internet access? □ Yes □ No		
APPLICATION INFORMATION	I purchased my Harmar lift because of? Style/Appearance 		
Scooter Power Chair Wheelchair	Harmar Representative		
Year:	Previous Experience Ease of Use		
	Recommendation		
Manufacturer:	Price/Value	Price/Value	
Model:			

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Outside Lifts

Installation & Owner's Manual



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