

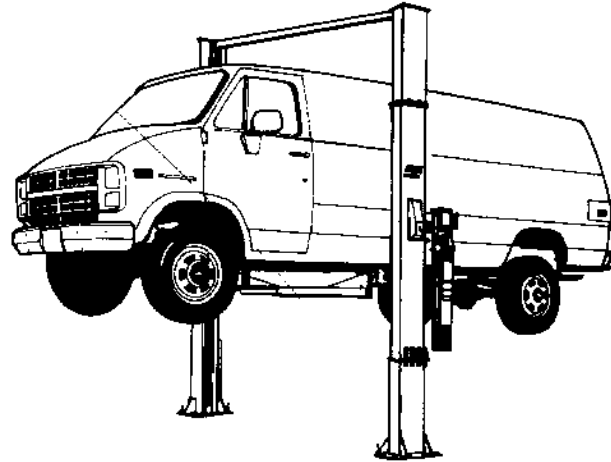
**COATS
BADA**

AMMCO

PANZITTA SALES & SERVICE
72 George Avenue
Wilkes-Barre, PA 18705
570-822-6720 800-822-6720
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AO

AMMCO Two Post Lift



Installation and Operation Instructions

*With Troubleshooting
and Parts Identification*

HENNESSY INDUSTRIES, INC.

P. O. Box 3002, 1601 J. P. Hennessy Dr., LaVergne, TN 37086-1982 615/641-7533 800/688-6359

HENNESSY INDUSTRIES, INC. Manufacturer of AMMCO®, COATS® and BADA® Automotive Service Equipment and Tools.

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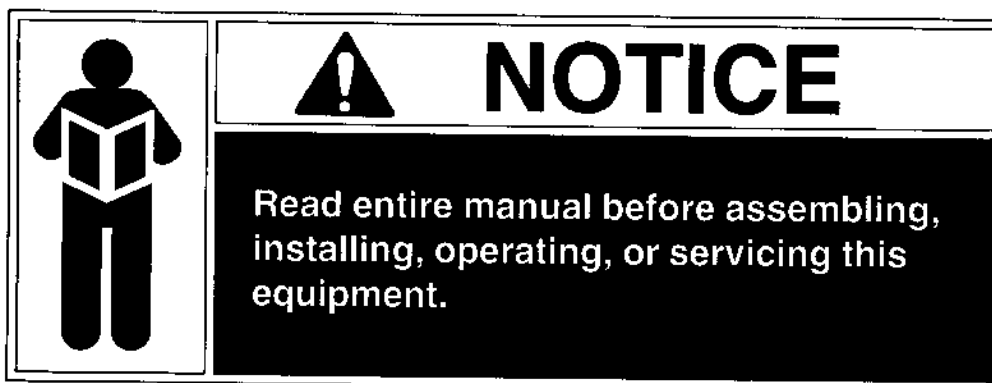
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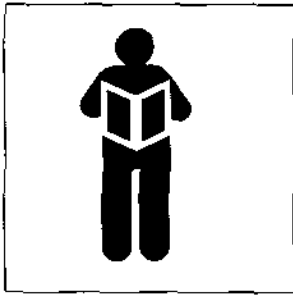
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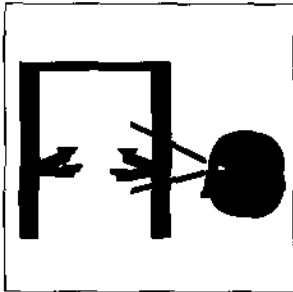
Before You Begin

Safety Notices and Decals

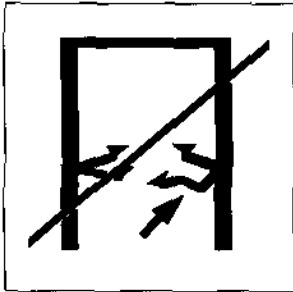
For your safety, and the safety of others, read and understand all of the safety notices and decals included here.



Read entire manual before assembling, installing, operating, or servicing this equipment.



Proper maintenance and inspection is necessary for safe operation.



Do not operate a damaged lift.

▲ WARNING



Clear area if vehicle is in danger of falling.

▲ WARNING



Do not exceed weight capacity.

▲ WARNING



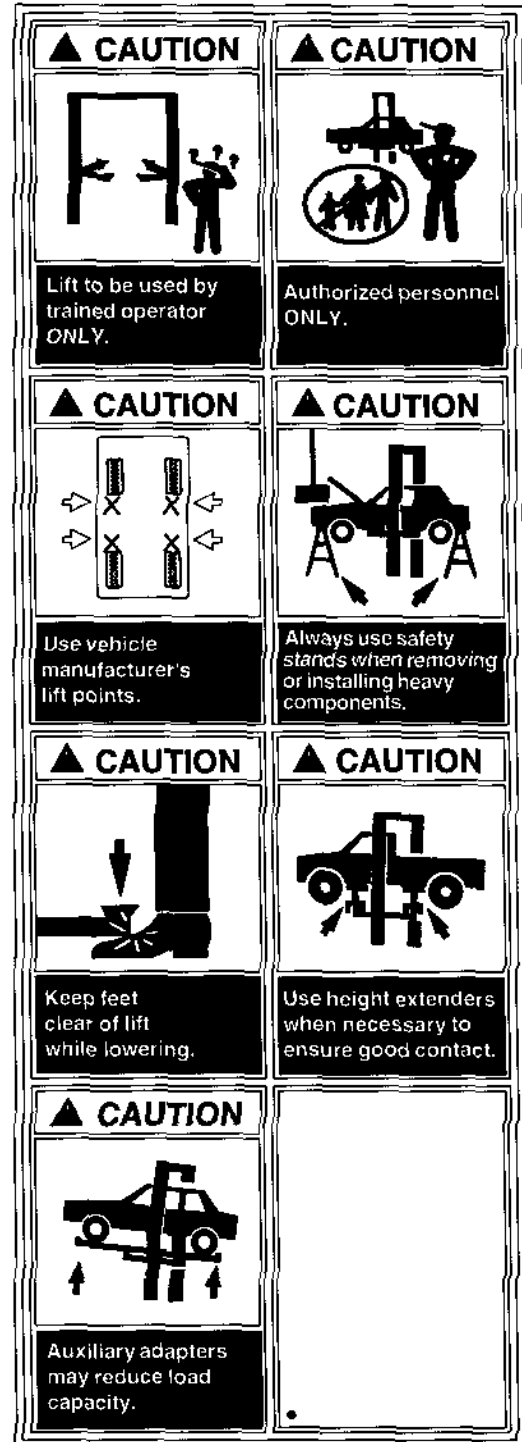
Remain clear of lift when raising or lowering vehicle.

▲ WARNING



Avoid excessive rocking of vehicle while on lift.

The following safety decals are found on a properly installed lift. Be sure that all safety decals have been correctly installed on the lift. Verify that all authorized operators know the location of these decals and fully understand their meaning. Replace worn, faded, or damaged decals promptly.



WARNING Do not attempt to raise a vehicle on the lift until the lift has been correctly installed and adjusted as described in this manual.



WARNING Modifications to any lift shall not be made without prior written consent of the lift manufacturer.

Receiving

The shipment should be thoroughly inspected as soon as it is received. The signed bill of lading is acknowledgement by the carrier of receipt *in good condition* of shipment covered by our invoice.

If any of the goods called for on this bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods. Do this for your own protection.

NOTIFY THE CARRIER AT ONCE if any hidden loss or damage is discovered after receipt and request him to make inspection. If the carrier will not do so, prepare an affidavit to the effect that you have so notified the carrier (on a certain date) and that he has failed to comply with your request.

IT IS DIFFICULT TO COLLECT FOR LOSS OR DAMAGE AFTER YOU HAVE GIVEN THE CARRIER A CLEAR RECEIPT.

File your claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available.

Although AMMCO's responsibility ceases upon delivery of the shipment to the carrier, we will gladly assist in tracing lost shipments. Our willingness to assist in every possible manner does not make AMMCO responsible for collection of claims, or replacement of lost or damaged materials.

Floor

Floors must be concrete, level between the posts, and in good condition. Minimum requirements for the concrete are: steel reinforced, 4 inches thick, and 3000 PSI ultimate compression strength. If floor does not meet minimum requirements, a new floor or concrete pads must be poured to support the lift post area. Pads must be a minimum of 3 feet wide by 3 feet long, and 12 inches thick. The pads should be connected to the existing slab with steel reinforcements. The new pads must be level with the existing floor.

Lift should not be installed any closer than 12 inches from existing exterior walls, interior walls, or from the edge or seam of a concrete slab unless concrete floor is reinforced and a minimum of 8 inches thick.



Failure by the purchaser to provide the recommended mounting surface could result in unsatisfactory lift performance, property damage, or personal injury.

Vertical Clearance

Check the height of the area where the lift is to be located. A minimum of 11 feet 11 inches (143 inches) unobstructed height is required for the AO-7S lift, and 12 feet 4 inches (148 inches) unobstructed height is required for all other AO lifts.



Failure by the purchaser to provide adequate clearance could result in unsatisfactory lift performance, property damage, or personal injury.

Electrical Requirements

For lift installation and operation, it is necessary to have a 220 volt, single- or three-phase, 60 cycle dedicated circuit. The maximum current draw on single-phase is 19 amps, and on three-phase is 12 amps. Fused protection should conform to local codes.

Tools Required for Installation

1. Concrete hammer drill
2. 1/2 inch solid drill bit with carbide tip to ANSI Standard B94.12-1977.
3. Wrenches: 1/2, 9/16, 15/16, 1-1/8 inch
4. Open end wrench: 7/16 inch
5. Ratchet drive with the following sockets: 1/2, 9/16, 15/16, 1-1/8 inch
6. Hammer (2 lb, 4 lb)
7. Funnel
8. Torque wrench: 150 to 250 foot pounds
9. Carpenter's level
10. Pry bar: 4 to 6 feet
11. Adjustable wrenches: 8 and 10 inch
12. Measuring tape: 25+ feet
13. Chalk line

General Anchor Bolt Instructions

1. The anchor bolts must be installed at least 12 inches from any edge or seam in the concrete.
2. Use a concrete hammer drill with a carbide tip solid drill bit the same diameter as the anchor. Tip diameter to ANSI Standard B94.12-1977 (.775 to .787 for the 3/4).
3. Do not use excessively worn bits or bits which have been incorrectly sharpened.
4. Keep the drill in a perpendicular line while drilling.
5. Let the drill do the work. Do not apply excessive pressure.
6. Lift the drill up and down to remove dust and reduce binding.
7. Drill the hole through the floor or to a depth of 5 inches minimum.
8. Vacuum the dust from the hole. This increases the holding power of the anchor bolts.
9. Assemble the washer and nut onto the anchor bolt until approximately 1/16 inch of the bolt is exposed. Using a hammer on the nut, carefully tap the anchor bolt into the concrete. Do not damage the nut or the threads.
10. Nuts should be torqued to 150/160 foot pounds at the proper time during the installation sequence.

Space Requirements

Height - AO, APO-7

These lifts require an unimpaird vertical clearance of 12 feet 4 inches (148 inches).

Height - AO-7S

This lift requires an unimpaird vertical clearance of 11 feet 11 inches (143 inches).

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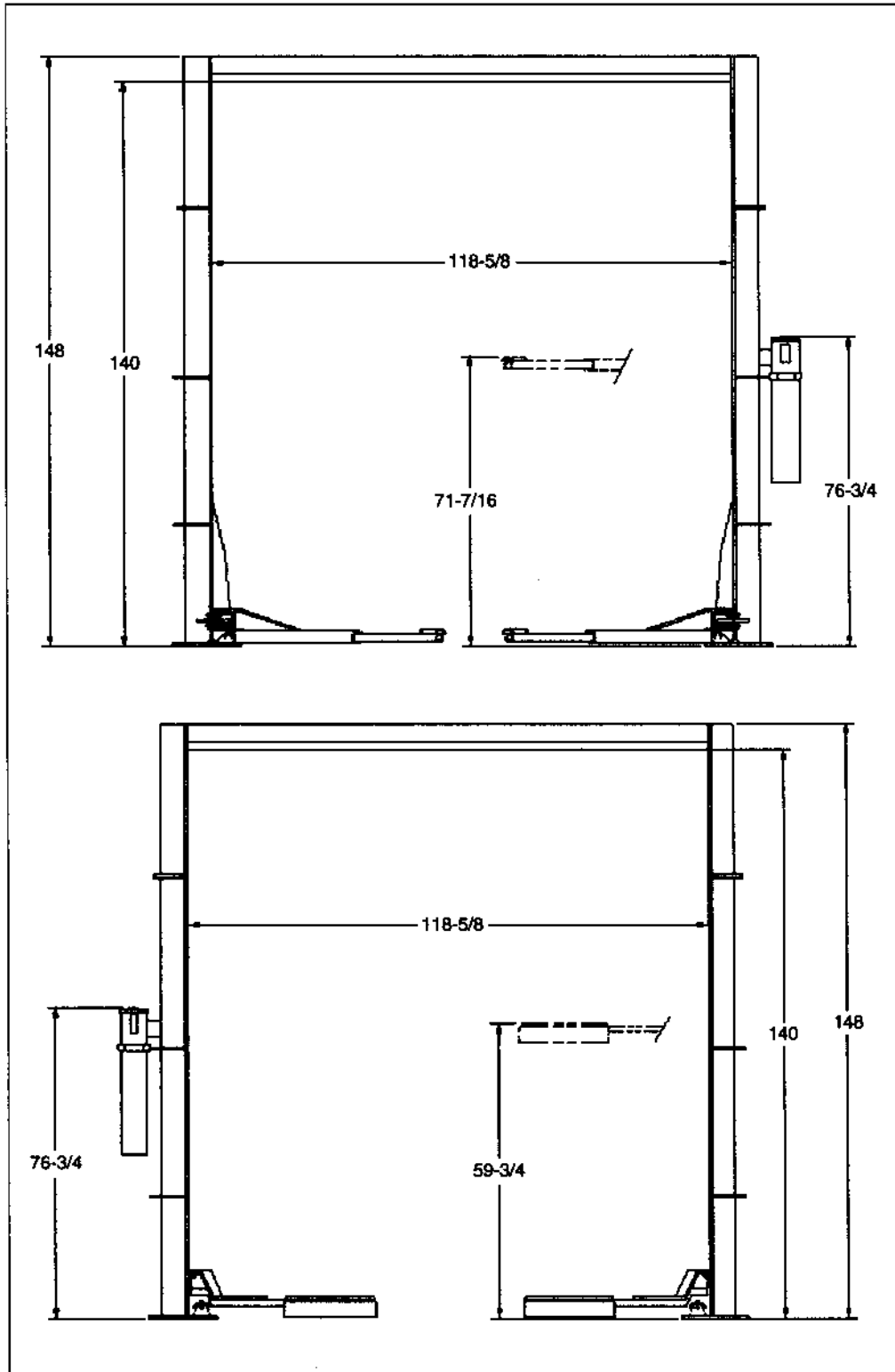


Figure 1 - Height Requirements (Inches) - AO Lift (top) and APO Lift (bottom)

Floor Space and Clearances

Minimum specifications must be met to insure proper clearance for lift operation.

Floor Specifications

Choose your installation area carefully. Check for height and space clearances as shown in Figures 1 and 2. Floors must be level between the posts and must be in good condition.



Do not install this lift in a pit or depression due to fire or explosion risks.



Concrete specifications must be followed. Failure to do so may result in lift or vehicle falling, endangering life and property. Do not install lift on asphalt or other unstable surface.

Using Pads

If floor does not meet minimum requirements, a new floor or concrete pads should be poured to support the lift post area. Pads must be a minimum of 3 feet wide by 3 feet long and at least 12 inches thick. The pads should be connected to the existing concrete slab with steel reinforcement and must be level with the existing floor.

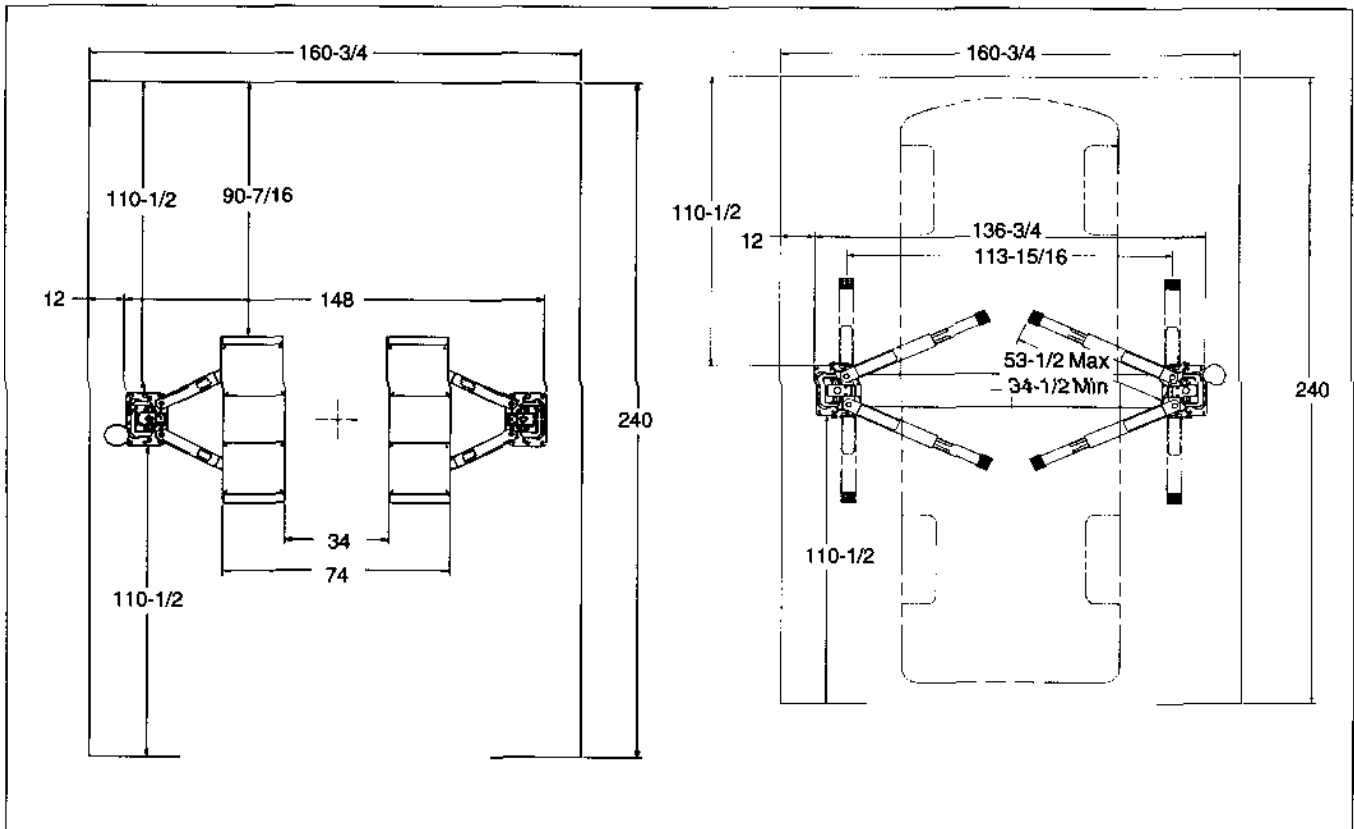


Figure 2 - Minimum Floor Space Requirements (Inches) - APO Lifts (left) and AO Lifts (right)

Locating the Lift

Posts and Power Unit

Throughout the installation process, these instructions will refer to the "driver side" and "passenger side" of the lift. As you stand at the opening to the garage area and look at the lift, the left side is the driver side and the right side is the passenger side. The end of the lift closest to you (the end from which you drive onto the lift) is the rear, and the opposite end is the front.

The power unit will mount only to the post with the mounting bracket attached. This will be referred to as the "pump side" post and can be installed on either side of the lift. The other post will be referred to as the "offside" post.

TIP: Placing the pump side post on the passenger side of the lift saves the user a trip around the vehicle when positioning the lift arms.

Measuring for Lift Installation (with Garage Door)

1. Snap a chalk line in the threshold of the garage door. Measure and divide the distance in half to establish the center of the doorway, point "A", along this baseline. Refer to Figure 3.
2. Measure 68-11/32 inches from "A" along the chalk line to the passenger side. Mark this point "B".
3. Measure 136-11/16 inches along the chalk line from "B" towards the driver side and mark point "C".
4. Measure and strike an arc from "B" to the front of the lift. Measure and strike an arc the same distance from "C". Mark the point where they cross as point "D".
5. Snap a chalk line from "A" through "D" to establish the center line for the lift.
6. Measure and strike an arc 68-11/32 inches from "D" towards the passenger side of the lift. Measure and strike an arc 68-11/32 inches from "D" towards the driver side of the lift.
7. Snap a chalk line from "B" through the outside of the arc on the passenger side. Mark the point where the line meets the outside of the arc as point "E". Snap a chalk line from "C" through the outside of the arc on the driver side. Mark the point where the line meets the outside of the arc as point "F".
8. Using the floor space requirements in Figure 2 as a guide, determine the best location for the passenger side post. Measure the distance along the chalk line from "B" to the selected point for the front edge of the base mounting plate. Mark this point "G". Measure the same distance along the chalk line from "C" and mark point "H" for the driver side post. Snap a chalk line between "G" and "H".
9. Place the posts in position at "G" and "H" with the front edges of the base mounting plates touching the "G/H" chalk line and the outside edges of the mounting plates touching the outside chalk lines.

REMEMBER: The pump side post can be placed on either side of the lift.

10. Measure from the outside edge of one mounting plate across the lift area to the outside edge of the other mounting plate. This distance should be 136-11/16 inches. If not, recheck your placements and measurements for accuracy, correct as necessary, and remeasure the distance.

Measuring for Lift Installation (without Garage Door)

1. Determine the approximate location for the lift. Use the floor space requirements in Figure 2 as a guide.
 2. Mark a straight 7 foot line along the outside edge of the passenger side post base mounting plate. Refer to Figure 4.
 3. Mark point "A" at the center of the 7 foot line. This is the point where the outside front corner of the passenger side post will be located.
 4. Measure 36 inches in both directions along the line from "A" and mark point "B" at the front of the lift, and point "C" at the rear of the lift.
 5. Measure 136-11/16 inches from "B" perpendicular to the 7 foot line. Mark point "D". Measure 136-11/16 inches from "C" perpendicular to the 7 foot line. Mark point "E".
 6. Snap a chalk line from "D" through "E".
 7. Measure and strike an arc 150 inches from "B". Measure and strike an arc 150 inches from "C". Mark the point where these arcs cross as "F".
 8. Snap a chalk line from "F" through "A". Mark the point where this line intersects the "D/E" line as "G".
 9. Place the posts in position at "A" and "G" with the front edges of the base mounting plates touching the "F/A" chalk line and the outside edges of the mounting plates touching the outside chalk lines.
- REMEMBER:** The pump side post can be placed on either side of the lift.
10. Measure from the outside edge of one mounting plate across the lift area to the outside edge of the other mounting plate. This distance should be 136-11/16 inches. If not, recheck your placements and measurements for accuracy, correct as necessary, and remeasure the distance.

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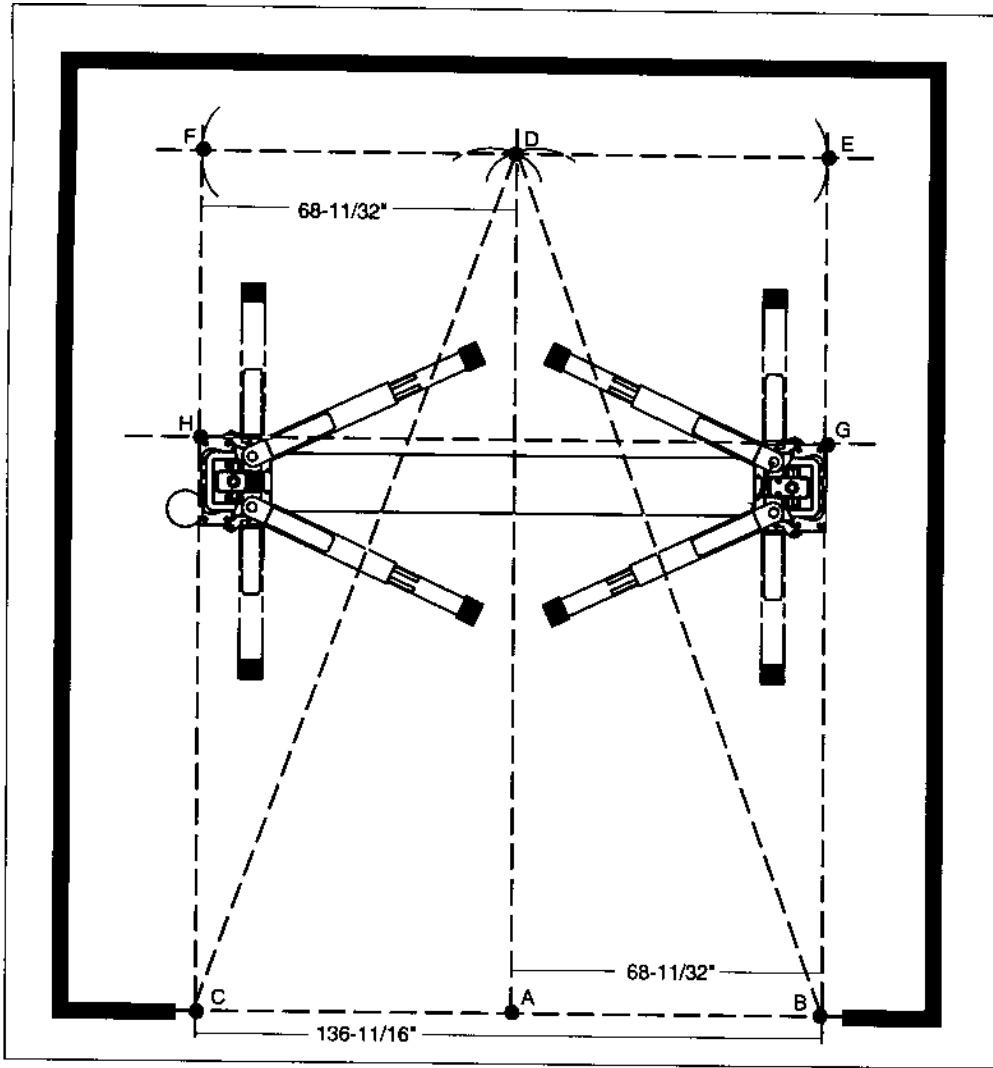


Figure 3 - Locating the Lift (with Garage Door)

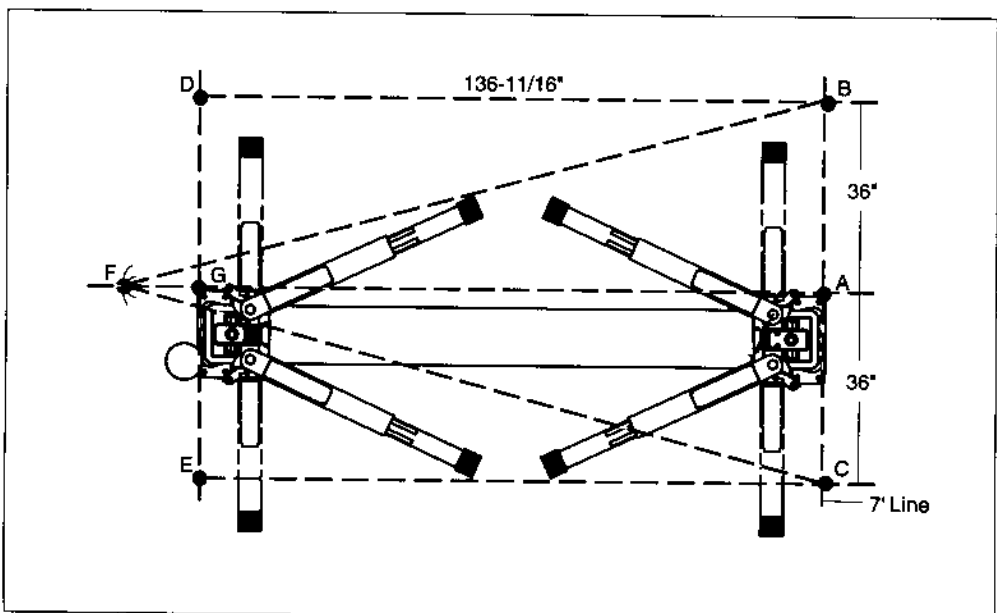


Figure 4 - Locating the Lift (without Garage Door)

Lift Installation

1. Remove the packing bands from the side posts, post extensions, and the overhead cross member.

NOTE: Retain the shipping bolts from the overhead cross member. Use them with the other bolts from the overhead installation hardware package to secure the cross member to the post extensions.

2. Remove the shipping brackets at the end of each post.



The posts could slip or fall when removing the shipping brackets. This could result in personal injury or equipment damage. Lay both side posts flat on the floor to remove the brackets.

3. Stand both posts into position according to Figure 3 or Figure 4 (depending on which type of installation you are performing).
4. To provide clearance for drilling anchor bolt holes, raise the carriage to the height of the stack pad holder (Figure 5). The safety latch should hold the carriage at this position.
5. Square the base plates with the chalk lines. Plumb the posts using a level front to rear and side to side. Add shims as required.

NOTE: Shims should be used on the vehicle side of the post if there is a gap between the base plate and the floor as a result of using shims elsewhere.



Operation of the lift with the posts not perfectly plumb is hazardous and could cause lift failure, resulting in personal injury or equipment damage.



Do not shim more than 5/8 inch in any spot, unless a longer anchor bolt is used. Using the provided anchor bolts with more than 5/8 inch of shims may cause the bolts to pull out of the concrete and the lift to fall, resulting in personal injury or equipment damage.

6. Using the baseplate as a template, drill a 3/4 inch hole through the concrete floor or to a minimum of 5 inches. Drilling through the floor allows the bolts to be driven into the ground and the holes patched if the lift is removed. Repeat for all anchor bolt holes in both base plates.
7. Vacuum the dust from the holes. Screw a nut and washer onto an anchor bolt until approximately 1/16 inch of the bolt is exposed above the nut. Insert the anchor bolt through the post base and into the hole. Carefully tap the anchor bolt into the concrete until the washer and nut contact the base plate. Do not damage the threads or nut. Torque the nut to 150/160 foot pounds. Repeat for all remaining anchor bolts.

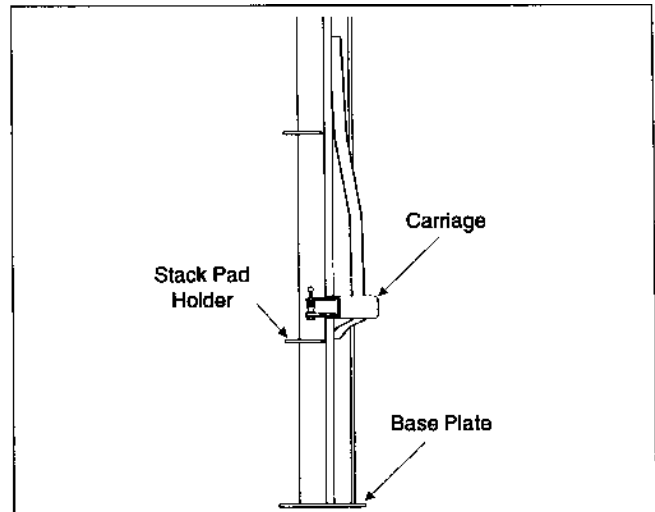


Figure 5 - Raise Carriage

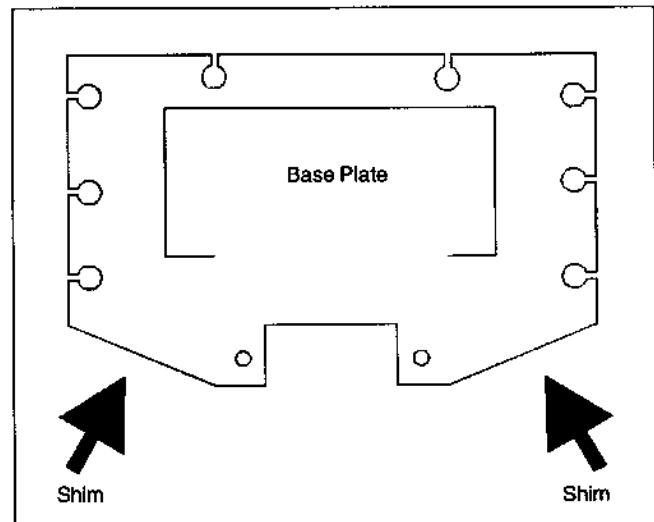


Figure 6 - Adding Shims: Add shims in these locations if gaps appear from shimming other locations.

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8. Install the post extension on each post using 1/2 inch washerhead bolts and nuts (4 for each post).

NOTE: If the capability to lift heavy objects is available, the post extensions, cross member, bumper bar, and brackets may be assembled and installed on the top of the posts as a one piece unit.

9. Attach the bumper bar brackets to the cross member (Figure 9). Attach the brackets to the cross member with 2 (two) 3/8 inch washerhead bolts, washers, and nuts (one bracket at each end of the cross member). Slide the bumper bar into the holes in each end of the bracket. Place a push-on fastener on each end of the bumper bar on the outside of the bracket.
10. Attach the cross member to the top of the post extensions (Figure 9). The microswitch mounting holes in the center of the cross member should be facing the rear of the lift. Use 4 (four) 3/8 inch washerhead bolts and nuts on each side of the cross member.

Hydraulic Hose Installation

1. Run the female end of the hose up the inside back of the offside post to the top and behind the corner brace in the post extension. Refer to Figure 10.

NOTE: Be sure to run the hose behind the braces in the back of the post.

2. Run the end of the long hydraulic hose across the top of the cross member and down into the top and back of the pump side post.
3. Run the hose down the pump side post to the tee connector. Connect the hose to the tee.

NOTE: Make the connection easier by removing the nut on the outside of the post, connecting the hose to the tee, repositioning the tee, and replacing the nut.

NOTE: The hose from the tee connector to the bottom of the pump side post is factory installed. Check to make sure the connections are tight.

4. Connect the 90° male fitting to the cylinder in the offside post.
5. Use plastic ty-wraps to fasten the hydraulic hose to the support bracket in the top of each post.

Power Unit Installation

1. Attach the power unit bracket to the mounting bracket on the pump side post with 5/16x7/8 inch bolts and locking nuts. Mount the power unit to the bracket (motor up, tank down) with 4 (four) 5/16x7/8 inch bolts and locking nuts. Refer to Figure 11.
2. Remove the shipping plug from the power unit pressure port. Refer to the parts identification, page 20. Install the 90° elbow fitting into the pressure port.
3. Connect the straight fitting on the remaining short hydraulic hose to the tee connector on the pump side post. Connect the other end of the hose to the pressure port on the power unit.

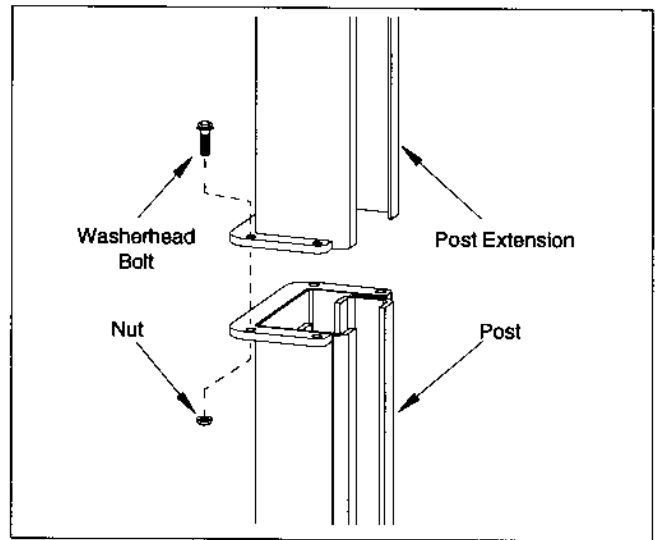


Figure 7 - Post Extensions

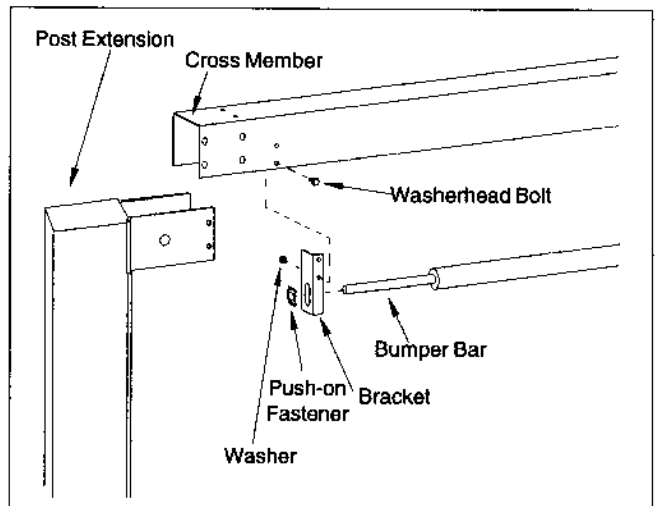


Figure 8 - Overhead Assembly

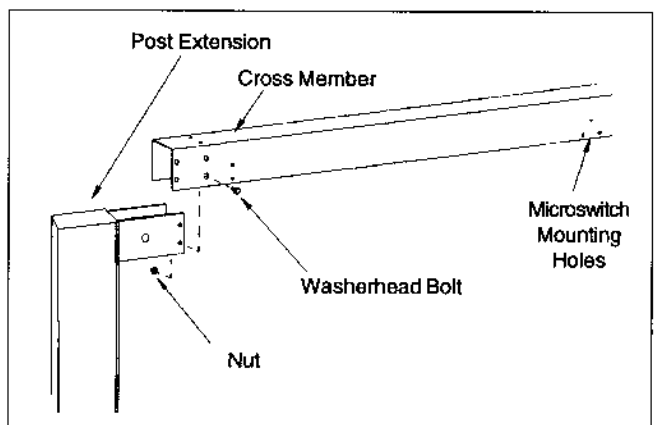


Figure 9 - Mounting the Cross Member

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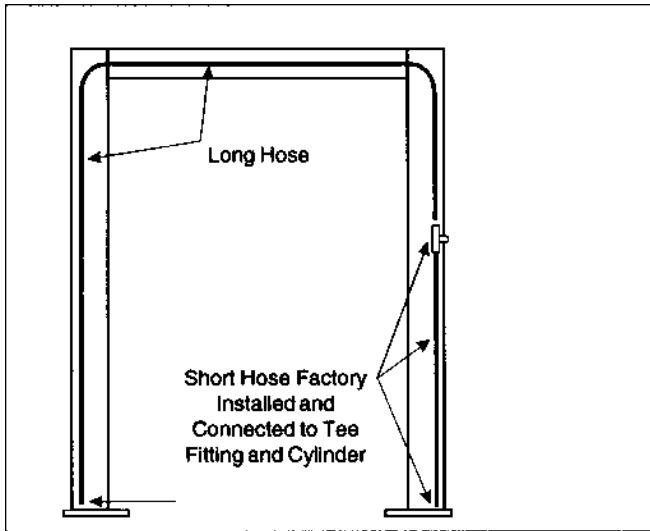


Figure 10 - Hydraulic Hose Connections

Equalizer Cable Installation

1. Insert one end of the cable up through the carriage. Use the hole that is directly below the lower cable tab. Thread a nut about 2 inches onto the cable end. Refer to Figure 12.
2. Insert the cable end with the nut through the lower cable tab until the nut is against the tab. Thread a nut onto the cable end to hold the cable in the tab. Tighten the nut down until both nuts contact the tab.
3. Remove the bottom pulley under the carriage and loop the cable around it. Replace the pulley and cable, then run the other end of the cable up through the carriage and up the post to the top pulley.
4. Loop the cable over the top rear pulley and run it across the inside of the cross member to the top rear pulley on the other post.
5. Loop the cable over the top rear pulley and then down the inside of the post to the upper cable tab.
6. Thread a nut about 2 inches onto the cable end. Insert the cable end into the upper cable tab. Put a nut on the cable end and tighten until both nuts contact the tab.
7. Install the other cable beginning from the same post as Step 6, using the same procedures and the front pulleys.

Equalizer Cable Adjustment

1. Place both carriages in the same lock position.
2. Tighten the hex nut on each equalizer cable until the carriages begin to rise off the locks.
3. Loosen each hex nut until the carriages lightly touch the locks. They should not be tight enough to lift the carriage off the safety latch.
4. Tighten the nut on the back side of the cable tab to lock the cables in position.

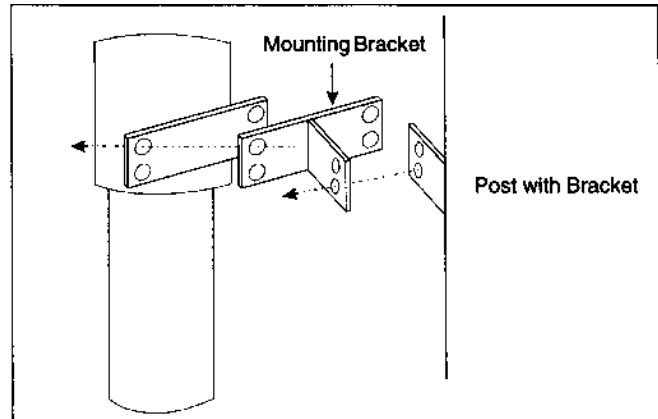


Figure 11 - Power Unit Installation

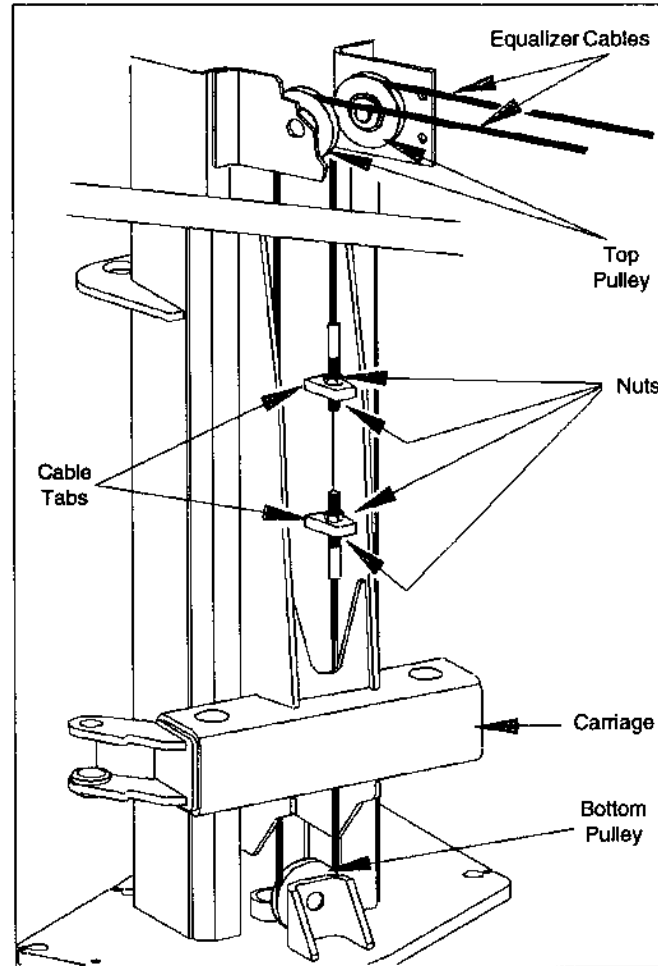


Figure 12 - Routing the Equalizer Cables

Microswitch Installation

1. Insert the rubber grommet into the 2 inch diameter hole in the pump side post above the power unit.
2. Run the electrical cable/switch assembly up the outside of the post and into the hole with the rubber grommet. Run the cable up the post extension and along the inside of the cross member.
3. Attach the microswitch bracket to the cross member with 2 hex screws and locknuts. Refer to Figure 13.
4. Attach the microswitch to the bracket.

- Use the plastic ty-wraps to secure the hydraulic hose (on top of the cross member) and the electrical cable (inside the cross member) at three locations. Feed the end of a ty-wrap up through the hole in the cross member, bend it over the hydraulic hose, and feed it back down through the other hole. Connect the ty-wrap ends together inside the cross member.

NOTE: Electrical cable must not come in contact with pulleys, cables, or any moving parts.

Safety Release Cable Installation

- The safety release cable comes from the factory attached to the safety release on the offside post. Refer to Figure 14.

NOTE: Refer to parts identification diagram (page 16) for assistance in routing the cable.

- Run the cable under the pulley "A", up the post, and over the pulley "B".
- From "B", run the cable through "C" and "D" to pulley "E". Run the cable over "E".
- From "E", run the cable down the inside of the pump side post to pulley "F". Run the cable under "F" and out the hole in the post.
- Run the end of the cable through the hole in the sear on the safety release. Loop the end of the cable back around the sear and attach the cable to itself with the clip provided. With the carriage still on the locks, place the spacer in the slot and tighten the cable until the slack is removed from the cable.
- Raise the lift to a position between the latch engagements. Tighten the safety release cable until both latches clear the carriage when the release handle is fully pulled down. Double check that the latches engage/clear the carriages during operation.
- Attach the safety release handle with round ball to the sear.

Bleeding Hydraulic Cylinder

- Check all hydraulic fittings. Fill the power unit tank with 14 quarts (3-1/2 gallons) of EXXON NUTO H46 or other brand name automatic transmission fluid.
- Plug the power unit into the correct phase and voltage power source as noted on power unit specification plate. Route the electrical cable and attach ty-wrap.

NOTE: Mating female cord end receptacle is supplied with the lift.

- Actuate the power unit until both carriages rise at the same time. Stop the carriages with the safety stops halfway between clicks. Leave the power unit under pressure. Loosen, but do not remove, the bleed plug on the top of each cylinder (one in each post) until a steady stream of fluid (no air bubbles) flows from the top of the cylinders. Tighten the plugs. Repeat the procedure until all air is out of the system.

- If required, re-adjust the cables to level the carriages.

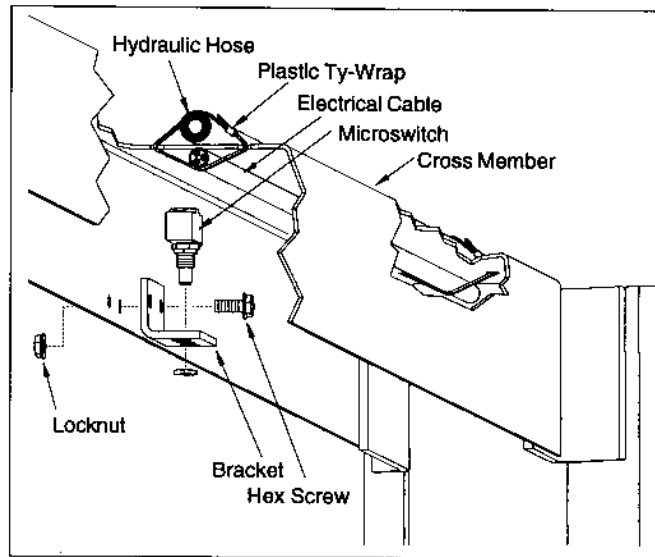


Figure 13 - Microswitch Mounting and Hose/Cable Routing

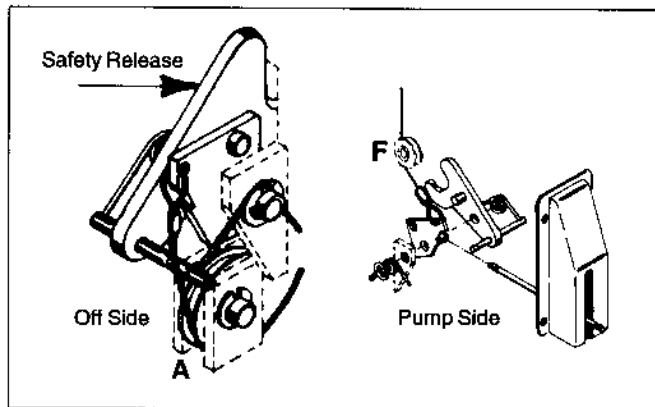


Figure 14 - Safety Release Cable Routing

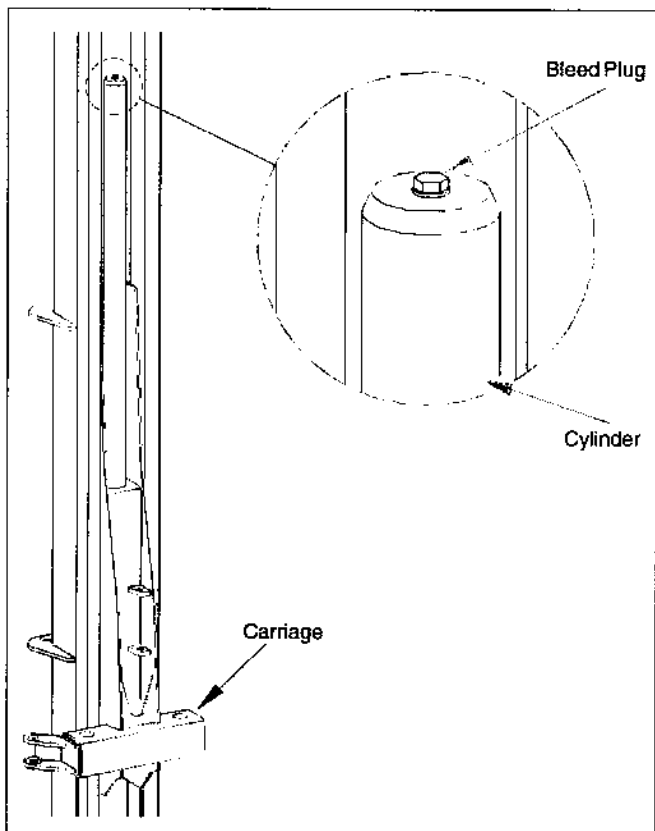


Figure 15 - Cylinder and Bleed Plug Location

Lift Arm Installation

1. Place the lift arms on the carriages. Insert a carriage pin through each lift arm and carriage (Figure 16).

NOTE: The arm restraint tabs should point to the outside of the lift with the arms in stowed position.

2. Install the e-ring on the bottom of the arm lock. Slide the spring over the top of the arm lock and down against the e-ring. Insert the assembled arm lock up through the bracket until the spring compresses against the bracket. Use the parts view on page 19 for help.
3. Maintain the spring pressure against the bracket and insert the threaded rod, flat end first, into the arm lock.
4. Secure the flat end of the threaded rod to the lift arm with a hex screw and nut.

NOTE: Lifting the lift arm safety restraint allows the lift arm to swing freely. When the lift is in the full down position, the safety releases in the base plate will release the arm locks so the arms can be moved freely.



WARNING Operation of the lift with the arm restraint disconnected could cause the vehicle to fall, causing serious damage or injury.

Finishing the Installation

1. Install the plastic guards over the safety locks on the outside of each post with the self-tapping screws provided.
2. Install the rubber bumper guards on each carriage above the lift arms to protect vehicle doors from damage.
3. Grease the inside of the posts.
4. Check all fittings for leaks.
5. Double check that all bolts and nuts are tight and the anchor bolts are torqued between 150 and 160 foot pounds.

This completes the installation of the lift.

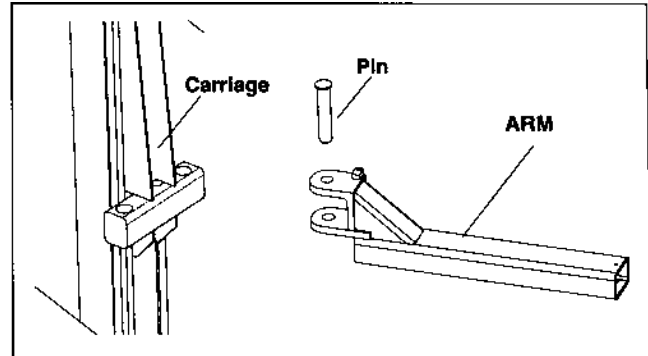


Figure 16 - Lift Arm Installation

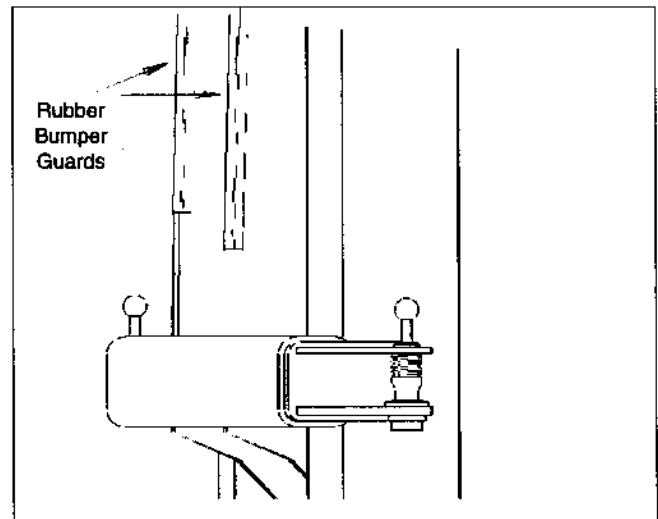


Figure 17 - Bumper Guard and Safety Release Locations

Alignment Rack Installation (ART, ARTO-7)

1. Bolt outrigger supports to posts using 1 inch - 8 unc x 2 inch large bolts. Shim under ends of outriggers at holes supplied for anchor bolts (not more than 1/4 inch with anchors supplied). Drill holes and install anchors as described in General Anchor Bolt Instructions, page 3.
2. Slide the bolster adapters over the carriages. Install two pins to hold the adapter to the carriage (Figure 20).
3. Assemble the rack to be used according to the instructions provided with the rack.
4. Attach the rack bolster to the carriage adapters. If the AMMCO 2290 Alignment Rack is being installed with the ART-7, be sure the rack bolster is mounted under the bolster adapter (Figure 20).

Bolster Installation (APO-7)

1. If you have an APO-7 lift with lift pads, slide the pads onto the carriage (Figure 21). Install the bolster pin through the pad and carriage.

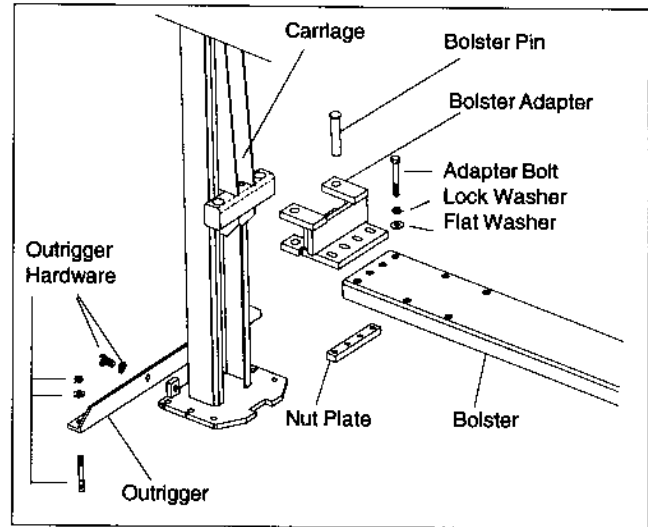


Figure 20 - Alignment Rack Installation

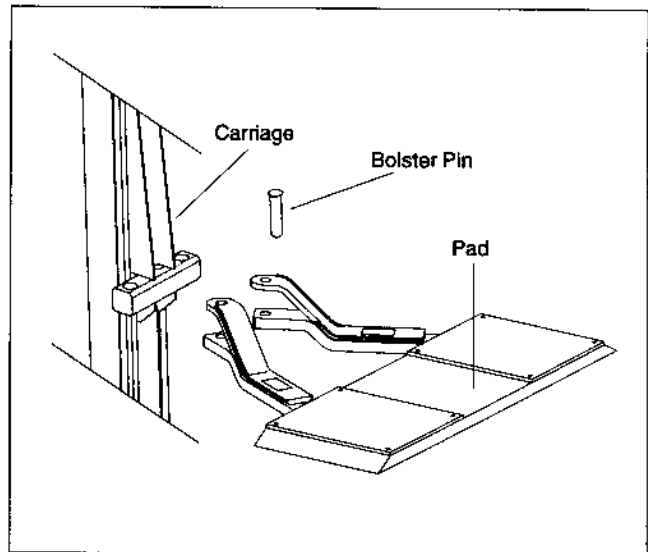


Figure 21 - APO-7 Lift Pad Installation

Lift Operation

Use the vehicle manufacturer's recommended lift points when raising a vehicle with the lift. Never lift on a strut or shock absorber mount. Take care not to pinch or bend any brake lines or other functional lines.

To Raise Lift

Read the safety warnings on page 2 for important safety information on raising and using this lift.

1. The vehicle should be pulled squarely into the bay and centered between the posts. Positioning of the vehicle from front to back is very critical. The vehicle must be positioned so the weight is balanced equally on the front and rear. Check all vehicles for any loads or equipment that may cause an unbalanced condition or may exceed the rated capacity of the lift.
2. Push the actuator switch on the power unit to raise the lift.
3. Raise lift past desired working height, then pull the lowering valve down to lower the lift slightly and engage the safety latches.

REMEMBER: Always watch the vertical clearance when raising a vehicle. Taller vehicles (vans, etc.) cannot be raised as high as smaller vehicles. Should the vehicle approach the maximum lift height, it will contact the bumper bar and cause it to push the microswitch in the cross member. The lift will stop immediately.

To Lower Lift:

Read the safety warnings on page 2 for important safety information on lowering the lift.

1. Remove all objects from under the lift and vehicle (tools, parts, air hoses, etc.).
2. Push the actuator switch to raise the lift and take the weight off the safety latches. Pull and hold the safety release handle down. Pull down the lowering valve on the power unit to lower the lift.

NOTE: If the safety release handle is not held down, the lift will engage the next safety latch and stop.

3. Rotate the lift arms out from under the vehicle and remove any adapters used (does not apply to APO lifts).

Lift Maintenance

To assure a long and useful life for your lift, regular maintenance is required. Do not operate the lift in a damaged condition.

Daily

1. Inspect the equalizing cables for signs of wear or slack. Replace or tighten as required.
2. Inspect for loose bolts and nuts. Tighten as required.

Weekly

1. Check hydraulic fluid level in the power unit. Add fluid as required. Inspect the hoses, pump, and fittings for leaks. If hydraulic fluid is spotted, find the leak and repair or replace parts as required.

Monthly

1. Apply grease to the post channels that guide the carriage.
2. Re-torque anchor bolts to 150 foot pounds.
3. Lubricate equalizer pulleys with a non-petroleum based lubricant.

Regularly

1. Inspect the entire lift structure for damage. Replace damaged components with AMMCO replacement parts.
2. Inspect safety latches for proper operation. **DO NOT** use the lift if safety latches do not ratchet as lift is raised. Repair safety latches immediately.
3. Keep the area around the lift clean and free of obstructions.