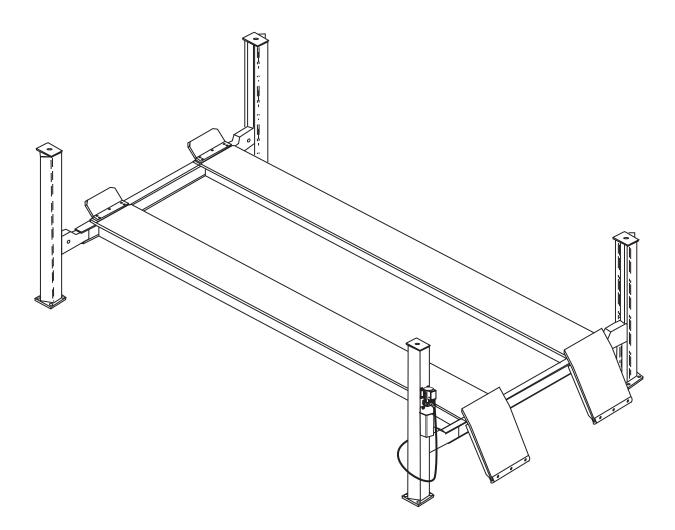
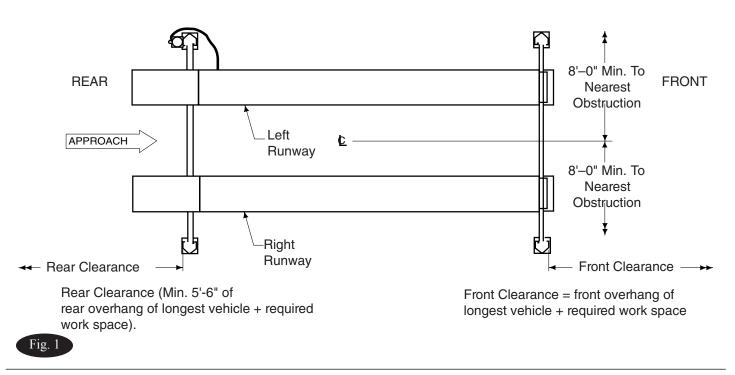
CR30 Installation Instruction

Capacity 30,000 lbs. (15,000 lbs. per axle) 235"/271"/308" Wheelbases 140" Minimum Wheelbase



Required Clearances



Read and understand Installation Instructions completely before starting with lift installation.

1. Lift Location: Use architects plan when available to locate lift. Fig. 1 shows dimensions of a typical bay layout. For power unit at right front, rotate lift 180°, leaving ramp/ chocks and wheel stops in original position. Lift floor area should be level.

AWARNING DO NOT install on asphalt or other similar unstable surfaces. Columns are supported only by anchors in floor.

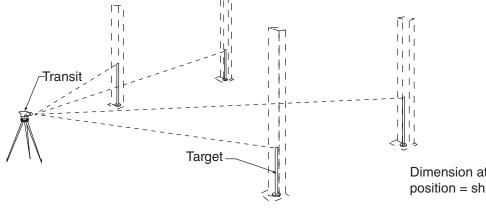
Note: If runway extensions are used, an additional 3'-0" of clearance must be added to end with extensions.

2. Ceiling or overhead clearance must be 80" plus height of tallest vehicle.

3. Estimating Column Shim requirements:

In the following section, the terms "highest" and "lowest" refer to elevation of floor.

- A. Mark locations where lift columns will be positioned in bay.
- B. Place target at column positions and record readings, Fig. 2.
- C. Find the highest of the four (4) locations. Find the difference between the reading at each of the remaining three (3) columns and the highest reading.
- D. The difference is the estimated amount of shim thickness needed at each column.

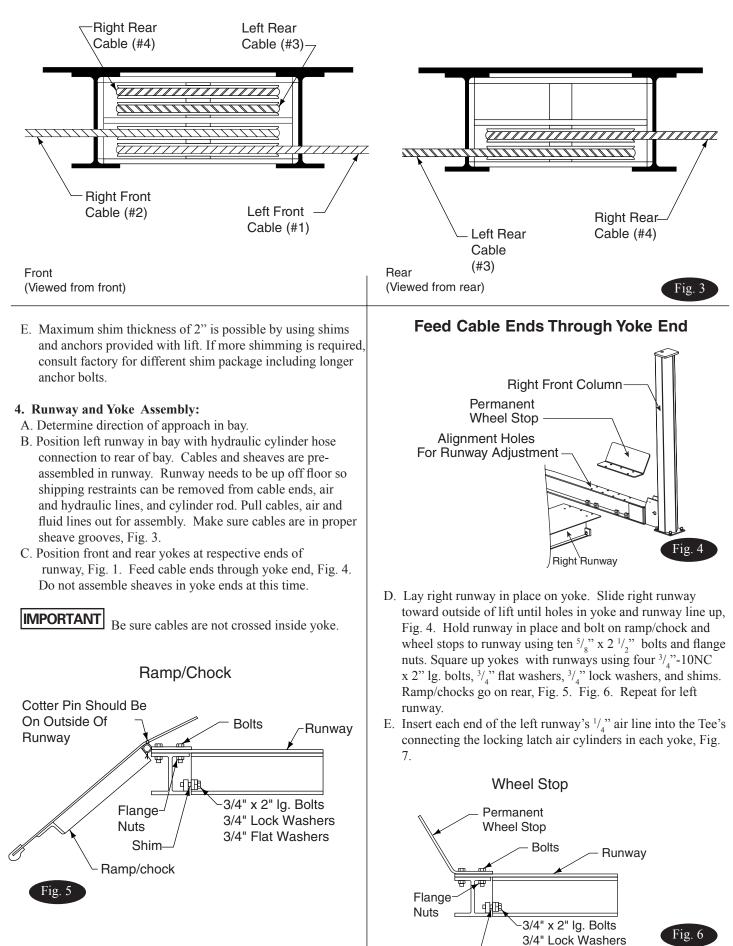


Dimension at highest position minus of position = shim thickness required



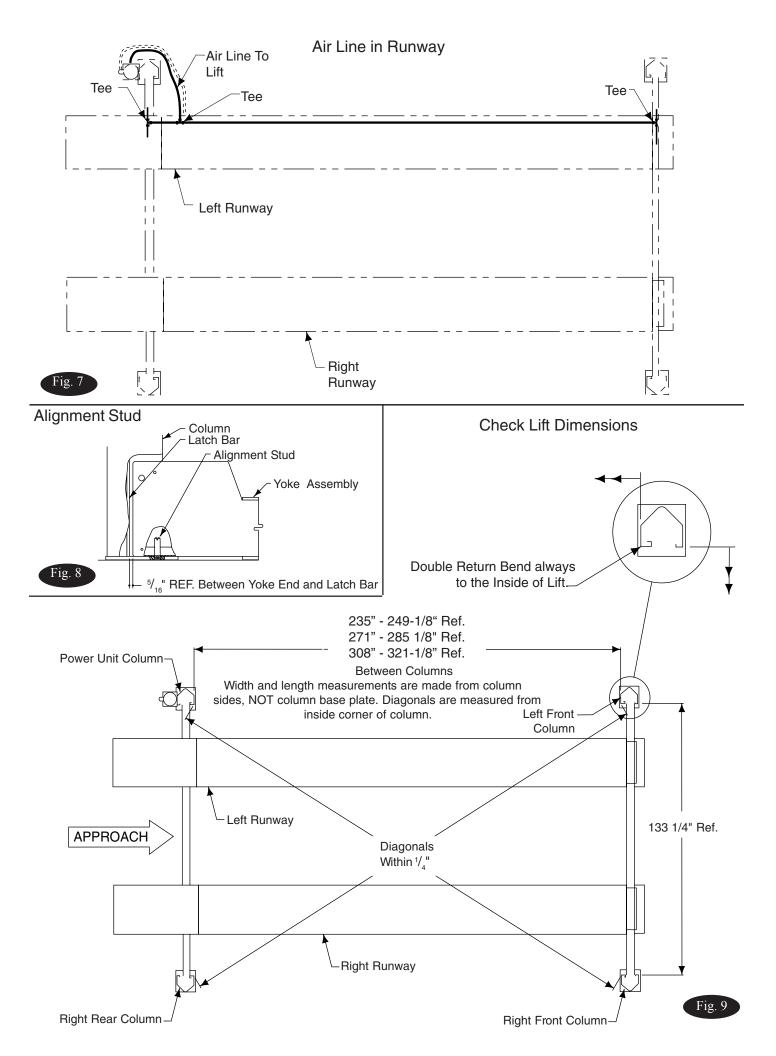
Estimation Shim Requirements

Cable Seating in Sheave Grooves



Shim

3/4" Flat Washers



5. Columns:

Note: Columns are not interchangeable. They must be set at their respective corner of the lift. Column double return bend is always to inside of lift, Fig. 9. Place the power unit column at the left rear corner of the lift. The point where the hydraulic hose passes through side of left runway should be visible from this corner. Insert alignment stud through hole in yoke end and thread into base plate of column, Fig. 8. Repeat for other columns.

IMPORTANT

INPORTANT The yoke/column alignment studs **MUST** be used for proper centering of columns to yokes, Fig. 8. A gap of $\frac{5}{16}$ must be maintained between column and yoke.

See step 6 B. **Note:** It may be necessary to remove Plastic Slider from Column Stop on yoke end, Fig. 10, before aligning yoke in column. After yoke is in column, reinstall Plastic Slider and secure with $\frac{5}{16}$ button head screw.

6. Anchoring:

Keep columns square to center line of lift. Check lift location in the bay, Fig. 1. Check dimensions side-to-side, front-to-rear, and diagonally. Diagonals must be equal to within $\frac{1}{4}$, Fig. 9. For each column:

- A. Minimum recommended concrete specifications is 3,000 PSI, 5-1/2" to 6" thick and should sustain 2,000 lb. anchor load.
- B. Start with power unit column. Use yoke spacer tool to ensure $\frac{5}{16}$ "gap between column and yoke. Place yoke spacer tool on yoke end, Fig. 8a, with ears facing away from column. Slide yoke spacer tool so that the end of the tool opposite the ears is against the side of the yoke end facing the column.
- C. Use shims provided to shim column base to plumb columns, first fore and aft then side to side. Use a 4' level to check plumb of columns. Recheck $\frac{5}{16}$ gap between column and yoke with yoke spacer tool. Maximum shim thickness is 2'', Fig. 12. If more shimming is required, consult factory for different shim package including longer anchor bolts. Drill four $\frac{5}{8}$ diameter holes through concrete floor using base holes as guide, Fig. 11. Repeat for other columns.
- D. Insert base anchors, Fig. 11. Repeat for other columns. Tighten nuts. Recheck columns for plumb. Re-shim if necessary. Torque anchor bolts to 35-45 ft. lbs., Fig. 11. If anchor bolts do not hold when torqued to required amount, concrete must be replaced. Saw cut and remove 24" x 24"

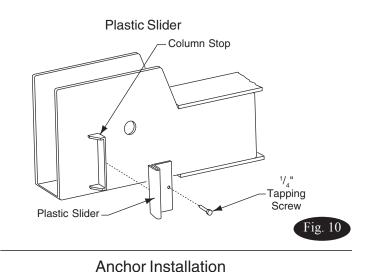


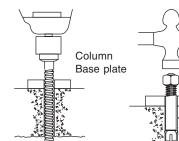
square area under each column base.

Repour with reinforced # 3000 minimum concrete to depth of 6", keying new concrete under existing floor.

7. Cable Connection:

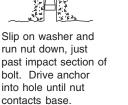
Install yoke end sheaves, Fig. 13. Retain with sheave pin and $\frac{5}{16}$ pan head machine screw, Locktite the screw threads. Attach each cable to column top plate with nut and jam nut. Install sheave covers on each yoke end, Fig. 13. Roping diagram shows a view of completed roping, Fig. 14.

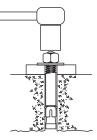




Drill holes using^{5/}₈" carbide tipped masonry drill bit per ANSI standard B94.12.1977.

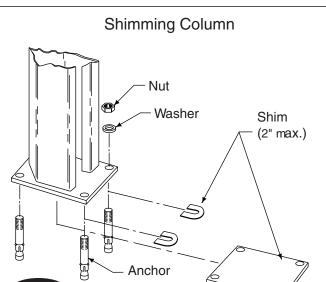
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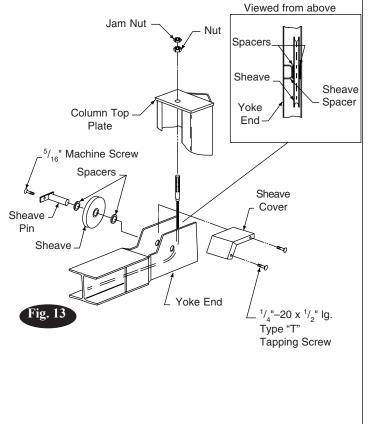


Tighten nut to 35-45 ft.-lbs.

Fig. 11



8. Adjust Cable: Adjust all cables with lift fully lowered. Loosen cable jam nut. Tighten adjusting nut on cable stud on top of column until yoke end is raised $1/4^{\circ}$. Back off adjusting nut one (1) turn. Tighten jam nut. Do this for all four (4) cables. See Fig. 13.



Cables must fit in slack cable arm rollers, Fig.15

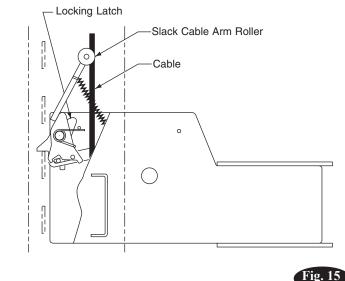
IMPORTANT

Attaching Cables

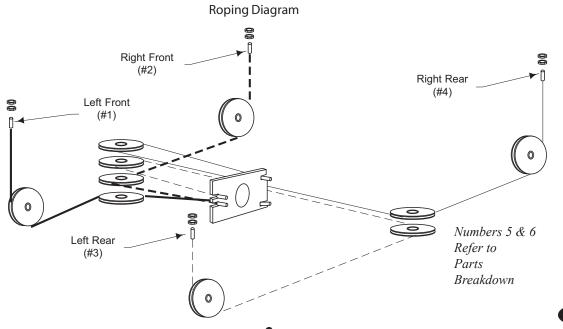
9. Power Unit:

- A. Align Air Valve Bracket with holes in right side of column bracket, Fig. 16.
- B. Put four $\frac{5}{16}$ x1- $\frac{1}{2}$ lg. hex. bolts through holes in column bracket, using push-nuts to hold in place.
- C. Mount power unit, with motor up, to the column bracket and install four $\frac{5}{16}$ lock washers and nuts.
- D. Run hydraulic hose from runway through slot in side of runway to power unit output port, Fig. 17. **DO NOT** use Teflon tape on hydraulic hose connections. Install and hand tighten elbow to pump until O-ring is seated and elbow should be oriented downward at approximately 45°,Fig. 17. Tighten locknut to 35-40 ft. lbs.
- E. Install enclosed capacity label on power unit, Fig. 17.
- **10. Electrical:** Have a certified electrician run 230 volt single phase 60 Hz. power supply to motor, Fig.18 and 19. Size wire for 20 amp. circuit. See Motor Operating Data table.

Cable in Slack Cable Arm Rollers



∛ig. 14



Mount Power Unit

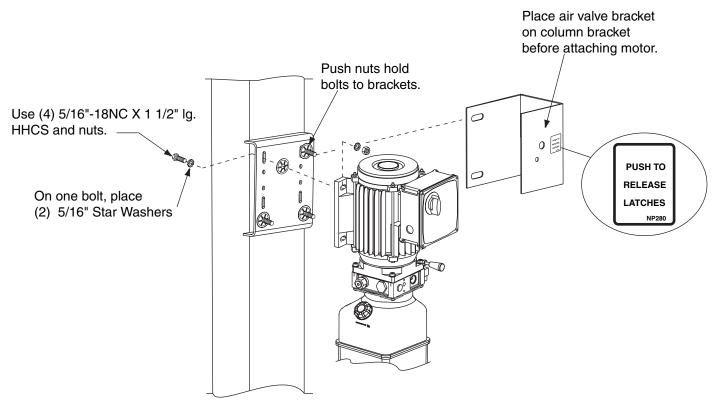
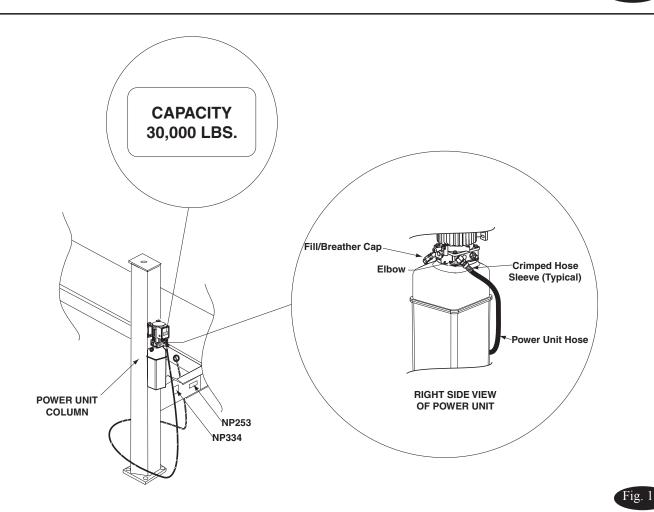
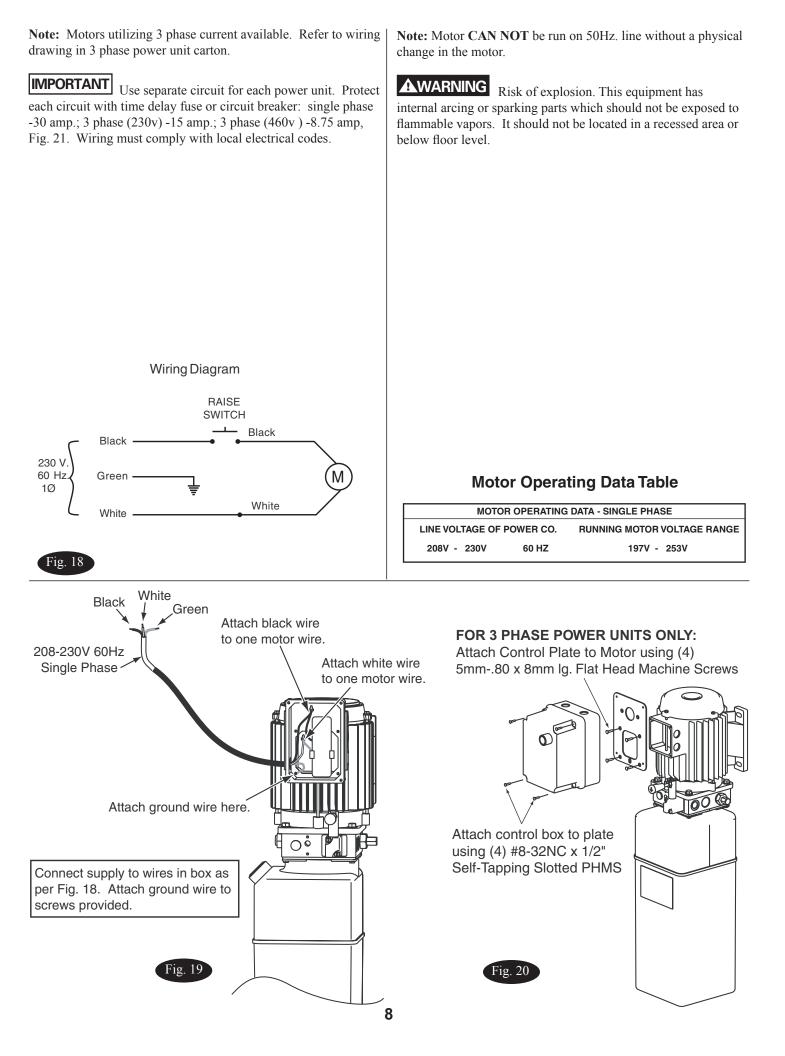


Fig. 16

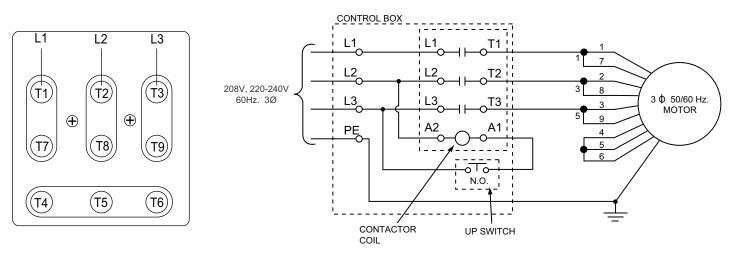


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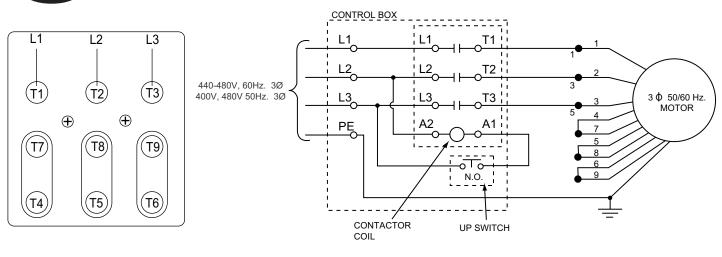
| MOTOR OPERATING DATA - THREE PHASE | | | |
|------------------------------------|-----------------|--|--|
| LINE VOLTAGE | RUNNING MOTOR | | |
| VOLTAGE RANGE | | | |
| 208-230 VOLTS 60HZ | 197 - 253 VOLTS | | |
| 460 VOLTS 60HZ | 414 - 506 VOLTS | | |

LOW VOLTAGE CONNECTION





HIGH VOLTAGE CONNECTION



| L | T1 | RED | T6 | BLACK "T" |
|----|----|-----------|----|-----------|
| E | T2 | BLUE | T7 | BROWN |
| GE | Т3 | WHITE | T8 | YELLOW |
| Ň | T4 | BLACK "R" | Т9 | GREEN |
| D | T5 | BLACK "S" | | |

| L | T1 | WHITE | T6 | BLACK |
|--------|----|-------|----|-------|
| Ē G | T2 | RED | T7 | WHITE |
| F | Т3 | BROWN | T8 | RED |
| E N | T4 | WHITE | Т9 | BLUE |
| D | T5 | RED | | |

Two different wiring colors were used. Determine appropriate LEGEND.

11. Fluid Filling:

If fill/breather cap, Fig. 17, is lost or broken, order replacement. **DO NOT** substitute with a solid plug.

- A. System capacity is twenty-two (14) quarts. Use Dexron III ATF. Remove fill/breather cap and fill vent screw, Fig. 17.
- B. Add fluid until it reaches the fill line.
- C. Replace fill/breather cap.
- D. Start motor and raise lift to full rise. Lower the lift onto the locking latches.
- E. REMOVE ALIGNMENT STUDS from all four (4) column bases, Fig. 8.

IMPORTANT

Lift must be fully lowered before changing or adding hydraulic fluid.

12. Connecting Air Supply:

Note: Locking latches require 100 p.s.i. min to 120 p.s.i. max. air pressure

IMPORTANT

A filter/regulator/lubricator must be installed on air supply at lift. Failure to do so will void the warranty.

A. Connect air valve to Reducing Tee, Fig. 24. Cut provided $\frac{1}{4}$ air line tubing with sharp blade to length as required. Tubing must be cut square with no burrs.

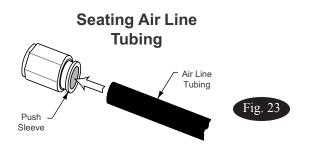
Note: To assemble air line tubing into fitting, use firm, manual pressure to push tubing into fitting until it bottoms, Fig. 23. If removal of the air line tubing from the fitting is ever required, hold Push Sleeve in (against fitting) and, at the same time, pull out on tubing.

IMPORTANT

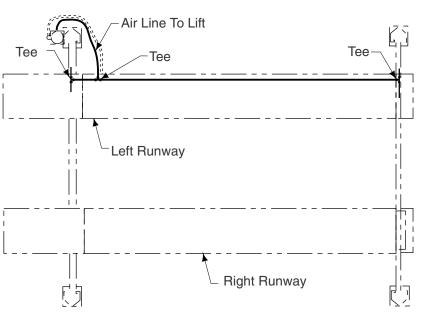
Tubing must bottom out in valve or fitting (approx. 3/4") or it will leak.

B. Use Housing Collar to secure the Air Valve to the Air Valve Bracket, Fig. 24.

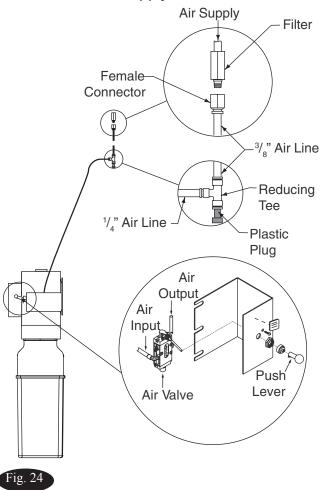
Air Line in Lift



- C. Attach enclosed NP280 decal ("PUSH TO RELEASE LATCHES") below button on air valve bracket, Fig. 16.
- D. Run 1/4 " air line from air valve to the slot in the fixed runway. Cut airline to length required and attach to Tee in runway, Fig. 22.
- E. Connect Reducing Tee to female connector, Fig. 24, using 3/3air line tubing. Attach filter to female connector and connect into existing facility air supply. Make sure plastic plug is in bottom opening of Reducing Tee.
- F. Check for air leaks by depressing air valve. Repair as required.
- G. Use provided cable ties to tie air line to hydraulic hose between power unit and lift.
- H. Actuate air valve and check latch operation on all four (4) corners. When releasing locks, the locking latch should pull back flush with yoke end to clear the latch bar located in all four (4) columns, Fig. 24. Adjust, if required, by removing cotter pin and washer holding Slotted Bracket on locking latch and screwing Slotted Bracket in to move it toward the air cylinder. After adjustment, replace washer and secure Slotted Bracket with a NEW cotter pin. Tighten jam nut. Apply Loctite® to jam nut to hold in place.
- I. Use cable ties provided to tie $\frac{3}{8}$ air supply to electrical supply conduit at approximately 2'-0" intervals.



Connect Air Supply to Air Valve



13. Bleeding: Raise and lower lift (6) times. The cylinder is selfbleeding. After bleeding system, replace fill vent screw.

Note: Some fluid may be exhausted from the cylinder breather vent during bleeding of the system.

14. Pressure Test: To pressure test, run lift to full rise and run motor for approximately five (5) seconds. Stop and check all hose connections. Tighten or reseal if required. Lower lift. Check fluid level in reservoir. Fill as required per instrustions in Step 11.

15. Final Adjustmemt:

- A. Load vehicle, such as a 3/4 ton pickup or van onto lift.
- B. Raise lift as high as it will travel (full height). As the lift is raised, note in which rear column locking latch clicks into slot at same time as the first column.
- C. Adjust cable in other rear column so that its locking latch clicks into slot at same time as the first column.

CAUTION There must be a minimum of two (2) threads

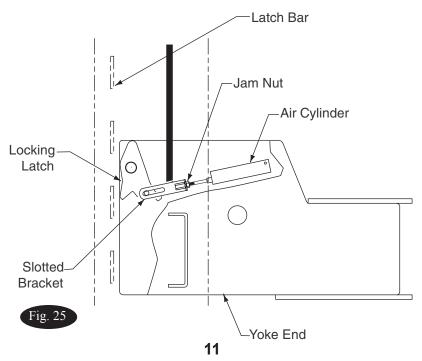
above the nut after adjustment.

- D. Raise lift again. This time listening for the first front latch to click into place. Adjust this simultaneously with the rear columns.
- E. Do the same for the remaining front column.
- F. Tighten jam nuts and lower lift.

Note: Latches may not click in at the same time when vehicle is being raised. They should be closed. Be sure all four (4) corners have passed the locking latch bar slot before lowering lift on locking latches.

Note: Replace any missing hardware with Grade 5 or higher.

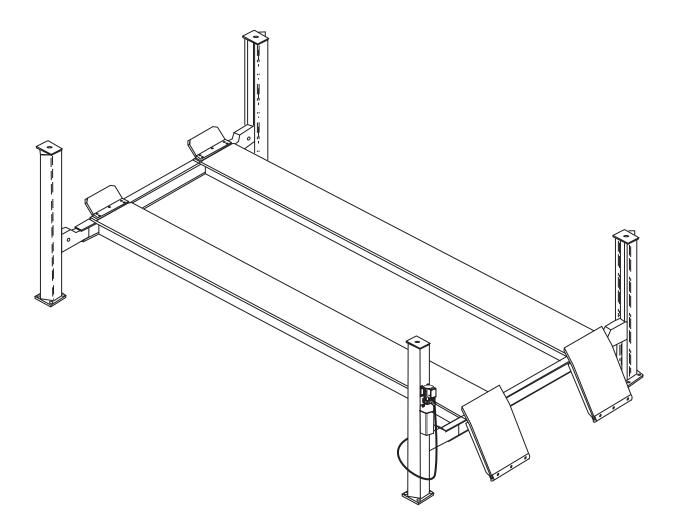
IMPORTANT Cotter pins are usually good for one time use only. Replace any cotter pin, if removed, with new cotter pin.



Notes:

CR30 Operation & Maintenance Capacity 30,000 lbs. (15,000 lbs. per axle)

apacity 30,000 lbs. (15,000 lbs. per axle) 235"/271"/308" Wheelbases 140" Minimum Wheelbase



Owner/Employer Responsibilities

The Owner/Employer:

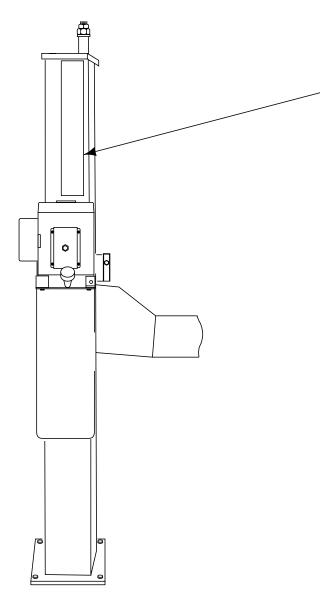
- Shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM01-1, *ALI Lifting it Right* safety manual; ALI/ST-90 *ALI Safety Tips* card; ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; ALI/WL Series, *ALI Uniform Warning Label Decals/Placards*; and in the case of frame engaging lifts, ALI/LP-GUIDE, *Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts*.
- Shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and The Employer Shall ensure that lift inspectors are qualified and that they are adequately trained in the inspection of the lift.
- Shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and The Employer Shall ensure that lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.
- Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.*
- Shall display the lift manufacturer's operating instructions; ALI/SM 93-1, *ALI Lifting it Right* safety manual; ALI/ST-90 *ALI Safety Tips* card; ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and in the case of frame engaging lifts, ALI/LP-GUIDE, *Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts*; in a conspicuous location in the lift area convenient to the operator.
- Shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1-1982 (R1993), *Safety Requirements for the Lockout/Tagout of Energy Sources*, before beginning any lift repairs.
- Shall not modify the lift in any manner without the prior written consent of the manufacturer.

SAFETY INSTRUCTIONS

- **Never** allow unauthorized or untrained persons to operate lift or rolling jacks.
- **Shop Policy** should prohibit customers or non-authorized persons from being in shop area while lift is in use.
- **Thoroughly** train all employees in the use and care of lift and rolling jacks.
- **Be Sure** no one is standing in front or behind lift while vehicle is being driven onto or backed off the lift.
- **DO NOT** allow rear tires or portion of vehicle to interfere with ramp/chocks.
- Be Sure front wheel stops are in raised position before driving vehicle onto lift.
- **Never** allow front wheels to strike the front wheel stops.
- **DO NOT** permit employees or customers on lift when it is either being raised or lowered.
- Always stand clear of lift when raising or lowering and observe "Pinch Points" Warning.
- Never overload lift: capacity of lift is 30,000 lbs. (15,000 lbs. per axle). CAPACITY SHOULD NOT BE EXCEEDED.
- **Always** engage parking brake and use the rear wheel chocks to keep the vehicle from rolling freely on the runways.
- Always lower lift on locks before working on vehicle.
- **Keep** area around lift clean of tools, debris, grease, and oil.
- Always keep runway clean.
- **Replace** all caution, warning, or safety related decals on the lift when unable to read or missing.
- For Rolling Jack Safety Instructions see Rolling Jack Installation,Operation and Maintenance Instructions in the rolling jack box.

SAFETY WARNING LABELS for Four-Post Surface Mounted Roll-on Lifts

A. The following pictograph labels are located, as shown, on the lift power unit column.B. Observe and heed Safety and Warning labels on the lift.







OPERATING INSTRUCTIONS

AWARNING To avoid personal injury and/or property damage, permit only trained personnel to operate lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift. Observe and heed SAFETY and WARNING labels on the lift.

Loading:

1. Lift must be fully lowered and no one in service bay while the vehicle is brought on lift.

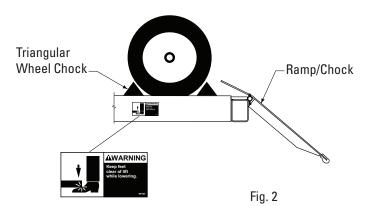
2. Drive vehicle onto lift and center it on runways. At all times, be sure rear wheels are forward of the ramp/chocks and the ramp/chocks will clear tires when the lift is raised, Fig. 2. Driver and passengers must exit before raising.

3. Place triangular wheel chocks on each side of one rear tire, Fig. 2.

Raise Lift:

1. Push the RAISE button on the power unit. Release button at desired height, Fig. 3.

2. Lower onto locks.



Before Lowering Lift:

Be sure no one is in the lift area and that all tools, tool trays, etc. have been removed from under the lift.

AWARNING The runways, ramps and connecting yokes at each end of lift are designed to rest on the floor when fully lowered. Observe pinch point warning decals.

To Lower Lift:

Note: If button on air valve is released, the latches will automatically reset to the engaged position.

1. If lift has been resting on the locking latches, lift must be raised high enough for all four latches to clear the latch bar slots inside the columns.

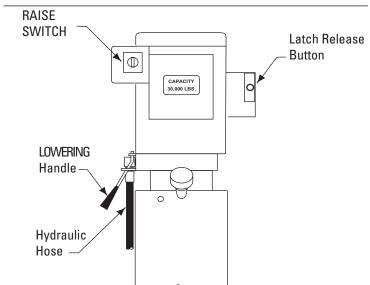
2. Push the latch release button on power unit, Fig. 3, to disengage all four (4) locking latches.

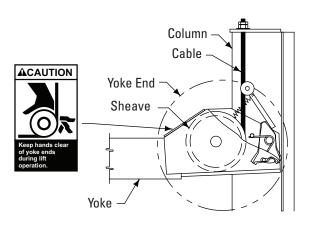
3. Keeping the latch release button depressed, push lowering valve handle on the power unit to lower lift, Fig. 3. Lowering speed can be controlled by the force applied to the lowering valve handle.

4. Observe lift and vehicle to be sure lift is level while being lowered. If not, STOP. Repeat Steps 1 through 4.
5. Fully lower lift, remove the triangular wheel chocks and check to be sure area is clear before removing vehicle from lift.

6. If your lift is not operating properly, **DO NOT** use until adjustments or repairs have been made by qualified lift service personnel.

EXAUTION Keep hands clear of yoke ends while the lift is being raised or lowered, Fig. 4.





Maintenance Instructions

AWARNING If you are not completely familiar with automotive lift maintenance procedures, **STOP:** Contact factory for instructions.

To Avoid Personal Injury, permit only qualified lift service personnel to perform maintenance on this equipment.

• **Use** only genuine replacement Parts for repairs.

• Always: Raise lift when cleaning floor area.

• After First 2 Weeks of Usage: Check cable adjustment per installation instructions. Continue to check cables per maintenance schedule below.

• After First 2 Weeks of Usage: Check torque on the column anchor bolts per installation instructions. Continue to check anchor bolts per maintenance schedule that follows.

• **Daily:** Check all column, lift/runway attaching bolts for tightness.

• **Daily:** Check cables and sheaves for wear. Observe for frayed cable strands. Wipe cables with a rag to detect hard to see small broken cable strands. Replace cables showing any broken strands. Replace worn parts as required with genuine parts.

• **Daily:** Inspect front wheel stops and ramp/chocks

for damage or excessive wear. Replace as required.Daily: Check locking latch operation and reset. Adjust per instructions or repair if required.

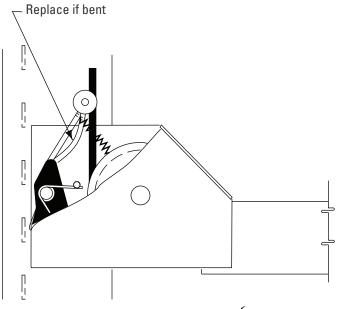
AWARNING If slack cable arm is bent, replace immediately. Refer to illustration below.

• **Monthly:** Check torque on the column anchor bolts per specifications in installation instructions.

• **Monthly:** Check equalizer cable tension. Adjust per lift installation instructions. If there are no more threads available for adjustment, replace the cable. Do not use washers to stand off the nut to use previously used threads.

• **Semi-Annually:** Check fluid level of lift power unit and refill if required. If fluid is required, inspect all fittings, hoses, and seals. Repair as required.

IMPORTANT Cable adjustment should be checked by an authorized installer after the first 50 loaded lift cycles and after 300 loaded lift cycles.



Replace Bent Slack Cable Arm

Trouble Shooting

| | 8 | |
|--|--|--|
| Trouble | Cause | Remedy |
| Motor does not run. | Check fuse or circuit breaker. Check for correct voltage to motor. Inspect all wiring connections. Switch burned out. Motor windings burned out. | Replace blown fuse or reset circuit breaker. Supply correct voltage to motor. Repair and insulate all connections. Replace switch. Replace motor. |
| Motor runs but will not raise lift. | Open lowering valve. Pump sucking air. Suction stub off pump. Low fluid level. | Repair or replace lowering valve. Tighten all suction line fittings. Replace suction stub. Fill tank with Dexron III ATF. |
| Motor runs—raises unloaded lift but will not raise vehicle. | Motor running on low voltage. Trash in lowering valve. Improper relief valve adjustment. Overloading lift. | Supply correct voltage to motor. Clean lowering valve. Replace relief valve cartridge. Check vehicle weight and/or balance vehicle weight on lifts. |
| Lift slowly settles down. | Trash in check valve seat. Trash in lowering valve seat. External fluid leaks. | Clean check valve. Clean lowering valve. Repair external leaks. |
| Slow lifting speed or fluid blowing out filler breather cap. | Air mixed with fluid. Air mixed with fluid suction. Fluid return tube loose. | Change fluid to Dexron III ATF. Tighten all suction line fittings. Reinstall fluid return tube. |
| Lift going up unlevel. | Cables out of adjustment. Lift installed on unlevel floor. | Adjust slack out of cable. Shim lift to level columns (Not to exceed 2"). Note: Maximum shim thickness of 2" is possible by using shim kit. Contact your Product Service Computent for |
| | | your Product Service Consultant for ordering information. |
| Lift stops short of full rise or chatters. | 1. Low on fluid. | 1. Check fluid level and bleed cylinder. If fluid is required inspect all fittings, hoses, and seals. Repair as required. |
| Anchors will not stay tight. | 1. Holes drilled oversize. | 1. Use a fast setting cement to pour into oversize holes and reset anchors or relocate lift using a new bit to drill holes. |
| | 2. Concrete floor thickness or holding strength not sufficient. | Break out old concrete and repour new pads for lift per installation instructions. |
| Lift will not lower. | 1. Insufficient air supply to lift. | Check air pressure. Air supply to lift should be between: Min. 100 p.s.i. and Max. 120 p.s.i. Check all lines and fittings for leaks or crimps. Repair or replace as required |
| | 2. Latches out of adjustment. | replace as required.2. Check latches per installation instructions. |

Lift Lockout/Tagout Procedure

Purpose

This procedure establishes the minimum requirements for the lockout of energy that could cause injury to personnel by the operation of lifts in need of repair or being serviced. All employees shall comply with this procedure.

Responsibility

The responsibility for assuring that this procedure is followed is binding upon all employees and service personnel from outside service companies (i.e., authorized installers, contactors, etc.). All employees shall be instructed in the safety significance of the lockout procedure by the facility owner/manager. Each new or transferred employee along with visiting outside service personnel shall be instructed by the owner/manager (or assigned designee) in the purpose and use of the lockout procedure.

Preparation

Employees authorized to perform lockout shall ensure that the appropriate energy isolating device (i.e., circuit breaker, fuse, disconnect, etc.) is identified for the lift being locked out. Other such devices for other equipment may be located in close proximity of the appropriate energy isolating device. If the identity of the device is in question, see the shop supervisor for resolution. Assure that proper authorization is received prior to performing the lockout procedure.

Sequence of Lockout Procedure

- 1) Notify all affected employees that a lockout is being performed and the reason for it.
- 2) Unload the subject lift. Shut it down and assure the disconnect switch is "OFF" if one is provided on the lift.
- 3) The authorized lockout person operates the main energy isolation device removing power to the subject lift.
 - If this is a lockable device, the authorized lockout person places the assigned padlock on the device to prevent its unintentional reactivation. An appropriate tag is applied stating the person's name, at least 3" x 6" in size, an easily noticeably color, and states not to operate device or remove tag.
 - If this device is a non-lockable circuit breaker or fuse, replace with a "dummy" device and tag it appropriately as mentioned above.
- 4) Attempt to operate lift to assure the lockout is working. Be sure to return any switches to the "OFF" position.
- 5) The equipment is now locked out and ready for the required maintenance or service.

Restoring Equipment to Service

- 1) Assure the work on the lift is complete and the area is clear of tools, vehicles, and personnel.
- At this point, the authorized person can remove the lock (or dummy circuit breaker or fuse) & tag and activate the energy isolating device so that the lift may again be placed into operation.

Rules for Using Lockout Procedure

Use the Lockout Procedure whenever the lift is being repaired or serviced, waiting for repair when current operation could cause possible injury to personnel, or for any other situation when unintentional operation could injure personnel. No attempt shall be made to operate the lift when the energy isolating device is locked out.

Operating Conditions

Lift is not intended for outdoor use and has an operating ambient temperature range of 41°-104°F (5°-40°C).

| APPROVED ACCESSORIES | | | |
|--------------------------------------|-------------|---------|--|
| Item Capacity Part Number | | | |
| Air/Electric Utility Box | | FA915 | |
| Air/Electric Utility Box Without FRL | | FA916 | |
| Rolling Jack | 15,000 lbs. | RJ15000 | |

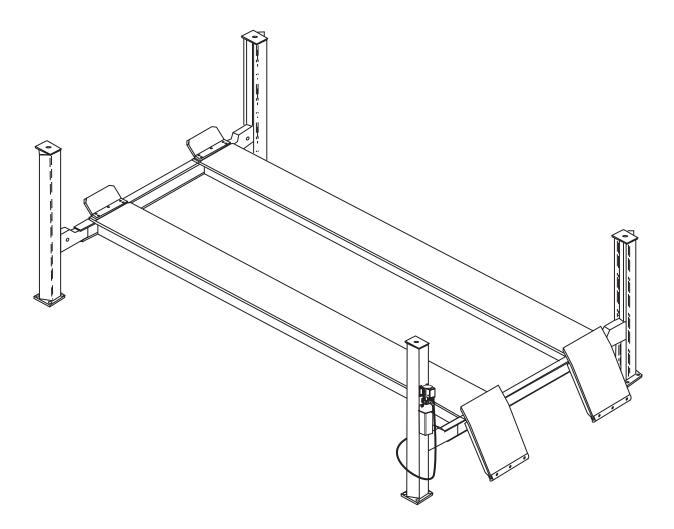
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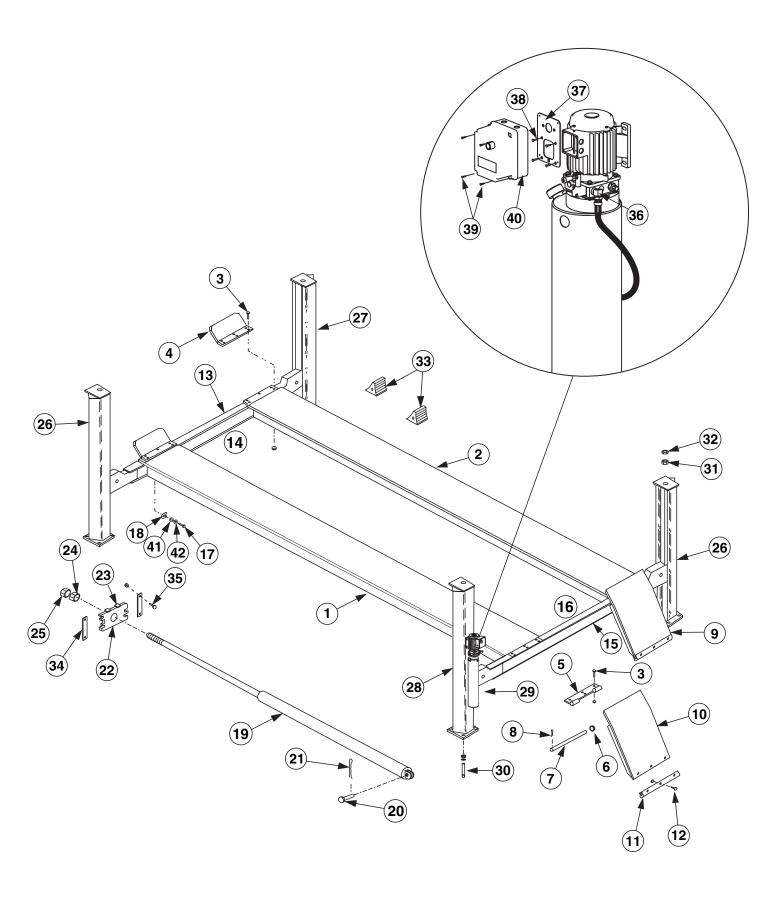
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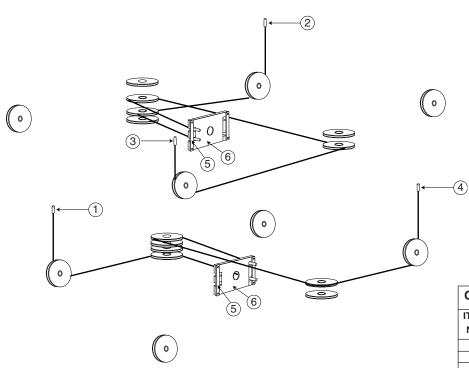
CR30 Parts Breakdown

Capacity 30,000 lbs. (15,000 lbs. per axle) 271" Wheelbase 140" Minimum Wheelbase





| | CR30 COMPONENTS | | | | |
|----------|--|-----------|--|--|--|
| Item | Description | Part. No. | | | |
| 1 | Left Hand Rnwy Assy. (Includes: cylinder; cables; sheaves) | 3000500 | | | |
| 2 | Right Hand Runway Assembly | 3000501 | | | |
| 3 | 5/8" -11NC x 2 1/2" Hex Cap Screw (High Strength) | 3000502 | | | |
| | 5/8" -11NC McClean-Fogg Nut | 40360 | | | |
| 4 | Wheel Stop | FC5780-6 | | | |
| 5 | Hinge Weld | FC5780-4 | | | |
| 6 | 5/8" Pushnut Fastener | FC5179-4 | | | |
| 7 | Hinge Pin | FC5225-39 | | | |
| 8 | 5/32" x 1" Cotter Pin | 41202 | | | |
| 9 | Ramp/Chock Assembly | 2800505 | | | |
| 10 | Ramp/Chock Weldment | 2800506 | | | |
| 11 | Plastic Slide | 1400948 | | | |
| 12 | #10-24NC x 3/4" Lg. PNHDMS | 40030 | | | |
| | #10-24NC Hex Nut | 40630 | | | |
| 13 | Front Yoke Weld | 2800401 | | | |
| 14 | Front Yoke Assembly (Includes latches) | 2800400 | | | |
| 15 | Rear Yoke Weld | 2800403 | | | |
| 16 | Rear Yoke Assembly (Includes latches) | 2800402 | | | |
| 17 | 3/4"-10NC x 2" Lg. HHCS (Grade 8 min.) | 40426 | | | |
| 18 | Plastic Shim | FJ716-6 | | | |
| 19 | Hydraulic Cylinder | 2800900 | | | |
| 20 | Clevis Pin | 2800900 | | | |
| 20 | 3/16" x 3" Cotter Pin | 41253 | | | |
| 21 | Cable Pull Bar | 2800508 | | | |
| 22 | Glide | 2800508 | | | |
| 23 | | 40777 | | | |
| | 1 3/4" - 5NC Heavy Hex Nut | | | | |
| 25 | 1 3/4" - 5NC Heavy Hex Jam Nut | 40778 | | | |
| 26 27 | Right Hand Column | 2800102 | | | |
| 27 | Left Hand Column | 2800101 | | | |
| - | Power Unit Column 1Ø Power Unit | 2800100 | | | |
| 29 | 3Ø Power Unit | P3028 | | | |
| 00 | Anchor Bolt | P3082 | | | |
| 30 | | FC5393-3 | | | |
| 31 | 1 1/8"-7NC Hex Nut | 40769 | | | |
| 32 | 1 1/8"-7NC Hex Jam Nut | 40770 | | | |
| 33 | Rear Wheel Chock | 2800510 | | | |
| 34 | Retainer Bar | 2800511 | | | |
| 35 | 1/4"-20NC x 2 1/2" Lg. HHCS and Lock Nut | 4 Req'd. | | | |
| 36 | Elbow | P1028-4 | | | |
| 37 | Adapter Plate | FA132-2 | | | |
| 38 | 5x.8x8mm FHMS | 4 Req'd | | | |
| 39 | #8-32 NC x1/2"LG | 4 Req'd | | | |
| 40 | Control Box | FA7163 | | | |
| 41 | 3/4" Flat Washer | 41018 | | | |
| 42 | 3/4" Lock Washer | 41000 | | | |



| CABLE ROPING DETAIL 235" WB | | | |
|-----------------------------|-------------------|---------|--|
| ITEM | PART NO. | | |
| NO. | | SM30 | |
| 1 | Left Front Cable | 3000900 | |
| 2 | Right Front Cable | 3000901 | |
| 3 | Left Rear Cable | 3000902 | |
| 4 | Right Rear Cable | 3000903 | |
| 5 | Pull Bar Hold | 2800512 | |
| 6 | Cable Pull Bar | 2800508 | |

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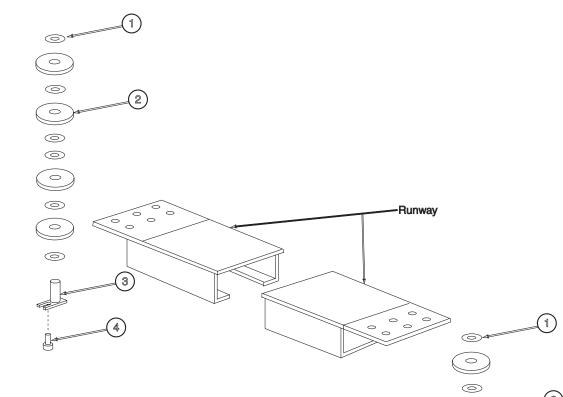
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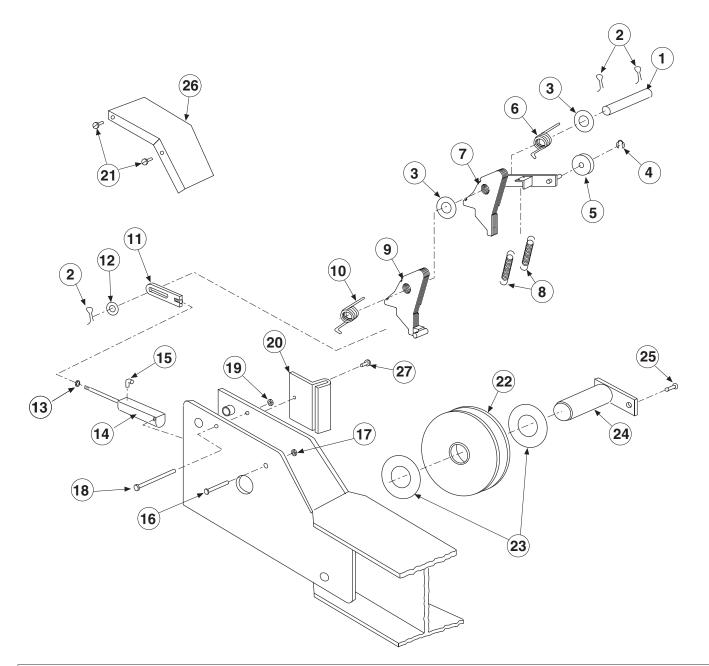
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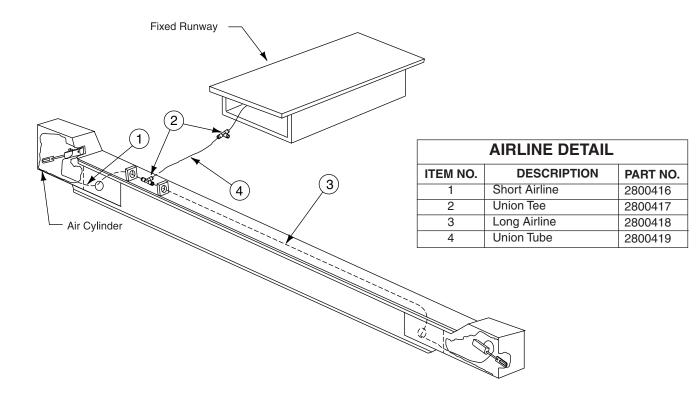
| SHEAVE DETAIL | | | | |
|-------------------------------|--------------------------|---------|--|--|
| ITEM NO. DESCRIPTION PART NO. | | | | |
| 1 | Bearing | 2800906 | | |
| 2 | Sheave | 2800907 | | |
| 3 | Sheave Pin Assembly | 2800908 | | |
| 4 | 5/16"-18NC x 1/2" HSBHCS | 40225 | | |

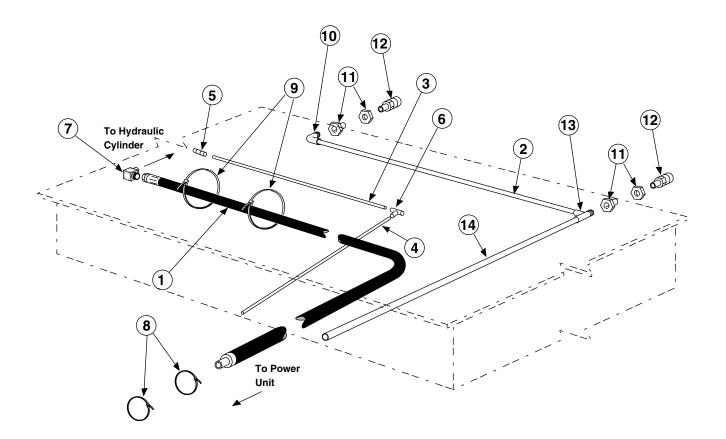


YOKE END DETAIL

| ITEM | DESCRIPTION | PART NO. | ITEM | DESCRIPTION | PART NO. |
|------|---------------------------|--------------|------|-----------------------------------|----------|
| 1 | Latch Shaft | 2800909 | 15 | Elbow | 2800911 |
| 2 | 1/8" x 1 1/4" Cotter Pin | 41201 | 16 | 1/4" - 20NC x 1 1/2" Lg. bolt | 2 req'd. |
| 3 | Bearing | 2800910 | 17 | 1/4" - 20NC Nylon Insert Lock Nut | 2 req'd. |
| 4 | Klip Ring for 3/8" Shaft | 41410 | 18 | 1/4" - 20NC Hex CS x 4 1/2" Lg. | 40116 |
| 5 | Slack Cable Roller | 2800404 | 19 | 1/4" - 20NC Hex Jam Nut | 40640 |
| 6 | Left Hand Torsion Spring | 2800405 | 20 | Plastic Slider | 2800414 |
| 7 | Slack Cable Locking Latch | L.H. 2800407 | 21 | Pinetree Retainer | 2800912 |
| | | R.H 2800406 | 22 | Sheave | 2800907 |
| 8 | Extension Spring | 2800408 | 23 | Bearing | 2800913 |
| 9 | Locking Latch | L.H. 2800410 | 24 | Sheave Pin Assembly | 2800914 |
| | | R.H. 2800409 | 25 | 5/16"-18NC HSBHCS x 1/2" Lg. | 40225 |
| 10 | Right Hand Torsion Spring | 2800411 | 26 | Yoke End Cover | 2800415 |
| 11 | Slotted Bracket | 2800412 | 27 | 1/4" - 20NC HHTS x 1/2" Lg. | 40067 |
| 12 | 3/8" Cut Washer | 40820 | | | |
| 13 | 1/4" - 28NF Hex Jam Nut | 40622 | | | |
| 14 | Air Cylinder | 2800413 | | | |

| | Α | IR LOCK RELEASE VALVE DE | ETAIL |
|----------------------------|----------|---------------------------|----------|
| | ITEM NO. | DESCRIPTION | PART NO. |
| | 1 | Valve | 2800915 |
| | 2 | 3/8" Plug | 1400955 |
| | 3 | Union Tee | 1400956 |
| | 4 | 1/4" Tubing (50' roll) | 1400943 |
| | 5 | Nameplate | NP280 |
| OPTIONAL MOUNTING ON SIDE | 6 | Control Assembly | 1400944 |
| | 7 | Elbow | 2800916 |
| | 8 | Filter/Muffler | 1400958 |
| | 9 | 3/8" Tubing (40 Ft. Roll) | 1400942 |
| | 10 | Female Connector | 2800917 |
| (\mathbf{n}, \mathbf{n}) | 11 | Air Valve Bracket | 2800918 |
| | 12 | #8-32NC x 1-1/2" Screw | 40007 |
| | 13 | #8-32 Nut | 40637 |
| | 14 | Handle | 1400939 |
| | 15 | #8 Flat Washer | 40788 |
| Air Input 6 | | | |





| | TUBING DETAIL | | | | | |
|------|------------------|----------|------|------------------|----------|--|
| ITEM | DESCRIPTION | PART NO. | ITEM | DESCRIPTION | PART NO. | |
| 1 | Hose | 2800919 | 8 | Wire Tie | 2800925 | |
| 2 | Long Runway Tube | 2800920 | 9 | Cable Tie | 2800926 | |
| 3 | Main Tube | 2800921 | 10 | Male Elbow | 1400965 | |
| 4 | 1/4" Supply Tube | 2800922 | 11 | Connector | 1400938 | |
| 5 | Union | 2800923 | 12 | Coupler | 2800927 | |
| 6 | Union Tee | 2800417 | 13 | Male Run Tee | 1400969 | |
| 7 | Elbow Adapter | 2800924 | 14 | 3/8" Supply Tube | 2800928 | |

Notes: