

CENTAUR



SERVICE MANUAL for 4 Horse Heavy Duty, 5 Horse, & 6 HORSE HOT WALKER

**5761 RIDGEVIEW AVENUE
MIRA LOMA, CALIFORNIA 91752
(951) 685-7337 FAX (951) 685-0341
1-800-962-8050
www.hotwalkers.com
E-Mail: centaur@hotwalkers.com**



Centaur Horse Walkers, Inc.

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HOT WALKER INSTALLATION & MAINTENANCE SCHEDULE

UNLOADING THE HOT WALKER

Lift the hot walker from the head only. If you must lift the Hot Walker from the base, make sure that your forks on your lift clear all drive assemblies inside the Hot Walker. You can inspect this prior to lifting by opening up your small inspection door that is mounted on one side of your Hot Walker.

Prior to installing your Hot Walker on your pad or post holes, refer to the enclosed diagrams for the proper layout of the bolts and your electrical source. Make sure that the walker is mounted on a fairly level surface.

BASE & ARM SET UP

After removing the Hot Walker off the trailer place it upon the appropriate slab. Remove the 3 screws on the front panel, and the top small plate, that is on top of the cover, and then remove the 3 sides of the cover that are welded and the top that is welded so that you expose the entire drive system. This gives you easy access to do your electrical and also your concrete anchoring so you do not damage the cover and inconvenience your working ability.

ARM INSTALLATION

You will want to have 3 men up on 3 ladders holding the arm structure, slide one end into the 3 ½" box receiver now insert ½" nut & bolt to flat tab. Go to the opposite side of the machine or 180 degrees, (to balance the Hot Walker) then install a 3rd arm at 90 degrees, and then the 4th at 90 degrees, so then you have a 4 horse hot walker, then add the other 2 arms, you now have 6 arms installed in the machine.

At the end of each major support arm either 20ft or 13ft sections (3 X 3) box, one foot back is a half inch nut welded into the head, and there is a bolt, take the bolt out, slide the 2 ½" X 2 ½" square steel tubing arm into the 3 X 3 super structure assembly using a drift pin or screw driver in the nut hole so as the arm is passing towards the center of the Hot Walker the drift pin or screw driver will stop the arm. When the screwdriver drops into the hole that is drilled into the top of the short arm. At that point apply grease to the bolt & thread the bolt back through the welded nut through the open hole in the arm, this is to secure the arm so that it doesn't pull back out, do this on all super structures.



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INSTALLING YOUR SAFETY RELEASE ROPES AND ANIMAL LEADS:

On the bottom side of each arm there is a steel rod with a curled end. Take the supplied rope and tie a non-slipping knot through its steel loop. Now take the free end of the rope and feed it through the two welded rings on the arm assembly. At the free end of the rope attach it to the ring on the vertical steel column with a good knot.

Now take the ring end of your lead and have someone pull the safety rope which will pull the rod back and allow you to put the ring in the arm opening, now release the rope and the lead will stay attached to the Hot Walker Arm.

To release the animal all you need to do now is simply jerk the pull rope and the animal is released with the lead attached to its halter.

Be sure to grease each spring on each arm. This allows the quick release to work properly. You can use any **WHITE GREASE**. You should grease the springs at least every **60 days** to insure your animal's safety.

CABLE, CABLE CLAMPS & TURN BUCKLE INSTALLATION:

IMPORTANT: You will notice on the super structure there is another bolt that is threaded it lies right behind the first bolt where you inserted the smaller arm. The secondary bolt is where you take your cable pieces, make a small loop on the end of it with a cable clamp and a small loop on the other end with a cable clamp, and you apply them around these additional nuts & bolts you will do 4 of them that way, looking at the diagram that is included for you on placement of the turnbuckles. There are 2 turnbuckles on the inside of the cable that will go opposite each other on 2 of the 6, cables. By rotating the turnbuckles you will apply tension on all the other cables. **IMPORTANT:** Make sure the cable clamp nuts are on tight so cable will not slip out. Turn Buckles are put on last.



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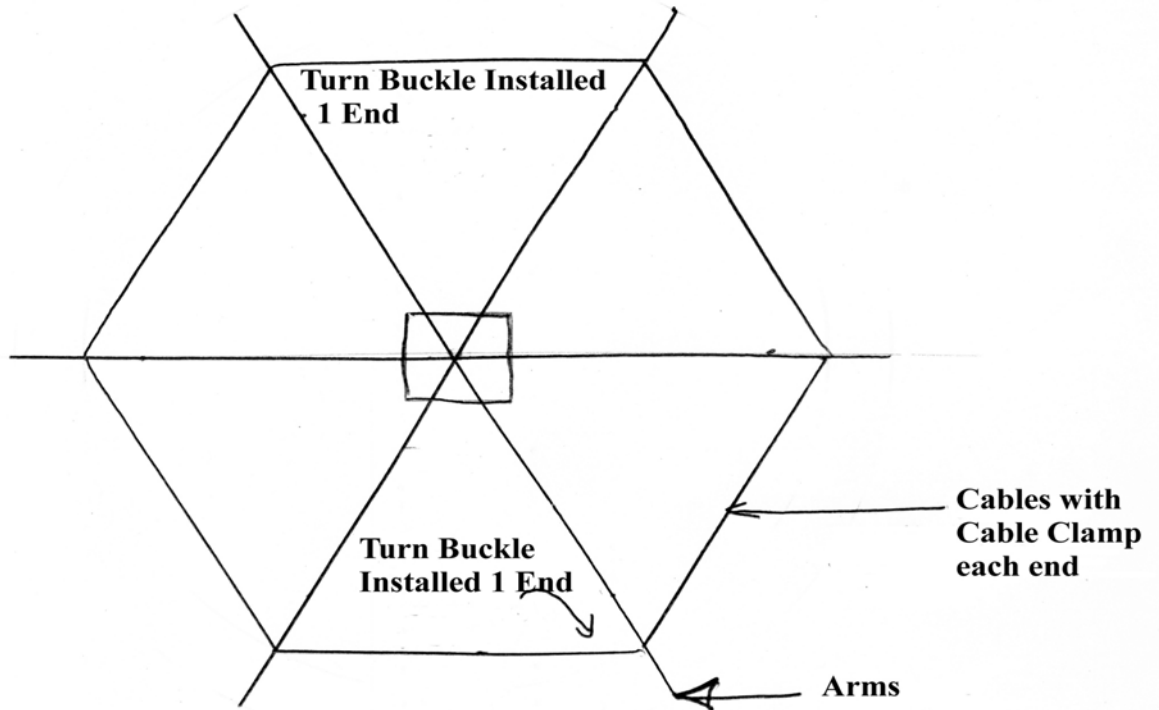
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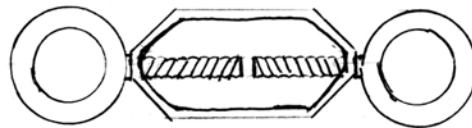
TURN BUCKLE DIAGRAM



Turn Buckles Start Position



Turn Buckles Ending Position





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HOT WALKER LUBRICATION SCHEDULE:

Inside the Hot Walker, the vertical shaft has 1 grease fitting on the 9" collar, plus 1 grease fitting below the sprocket that is welded onto the vertical truck rear end; these should be greased every **60 days**.

The truck rear end should have the oil drained from it every **6 months**. You can use any reclaimed oil 30, 40, or 50 Wt. **DO NOT USE GEAR OIL** in it, since it turns at a low R.P.M. and is not needed. Fill the oil through the vertical tube located on the top side of the rear end. When oil starts to come out of the breather cap (located on the vertical rear end housing) then the Walker is filled. The Walker takes about 2 ¼ gallons to fill it totally.

The gearbox should be checked every **90 to 120 days** and it should be drained and refilled with the proper "gear oil" (see brochure).

ADJUSTING THE PROPER PULLING POWER OF YOUR HOT WALKER:

To give your Hot Walker more pulling power, you will notice 1 vertical all thread rod mounted in front of the electric motor and the gearbox. Loosen the lower jamb nuts under the slotted motor plates on the thread rod. Now tighten the upper nuts on the thread rod, and this will cause the motor and gear box plate assembly to tilt downward creating more tension on the double V-belts. The 2 V-Belts should have about 1 1/16th inch of give between the big pulley and the little pulley. Try to tighten each nut the same to keep the motor assembly plate parallel. The vertical thread rod should be kept greased to stop rusting and allow the nuts to work smoothly.

NOTE: THE HOT WALKER MUST BE TURNING WHILE TIGHTENING THE V-BELTS. TIGHTEN THE V-BELTS AFTER THE FIRST 5 DAYS OF USAGE. THIS IS MOST IMPORTANT, TO PREVENT THE BELTS FROM SLIPPING. (V-Belts = 70)

REPLACEMENT PARTS:

Any parts that become worn or broken can be replaced by calling our Corporate Office at 1-800-962-8050 or 951-685-7337. Most of the parts can be shipped the same day.

For belt replacement, the sizes are listed on the backside of the belts themselves.

For motor, switch, vari-pulleys, and gearboxes all the model numbers are located on their I.D. plates, for ordering.



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OPERATING INSTRUCTIONS

1. The Walker is designed to walk horses for conditioning and cooling. The variable speed control is provided to allow the option of adjust of speed for different horses needs.
2. Horses “DO” require training to walk and behave properly on a hot walker. It is not intended to be used to break wild horses or force them to walk.
3. Leads are furnished with the walker. They should be inspected once a month, they should be replaced immediately, if they show signs of weakness, or if they begin to fray.
4. A monthly check and tightening of all bolted parts is needed. A walker that is in constant use requires this as a normal maintenance procedure.
5. If the V-Belts become loose, they can be tightened by adjusting the nuts on the vertical thread rod mounted in the front of the motor.
6. Grease: Grease zerks are located on the vertical shaft. These will grease the moving parts of the drive tower. Greasing each month is recommended. **NOTE: DO NOT** oil or grease the V-Belt assembly. **IMPORTANT:** When greasing use Lithium grease only.
7. The walker will not reverse without stopping completely first.
8. Any electrical service should be done by a licensed electrician. 110 Volt or 220 Volt wiring is required. A remote On/Off (wired away from the walker) switch is a required safety protection. **NEVER** adjust walker speed or put hands near the V-Belt assembly unless the electrical switch is turned off.
9. Walkers are warranted for one year from the date of purchase as per attached warranty statement.



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“DO’S AND DON’TS”

<p>DO NOT attempt to use walker prior to being properly secured to the foundation pad.</p> <p>DO NOT operate walker with the cabinet off.</p> <p>DO NOT leave walker unattended while in operation.</p> <p>DO NOT put hands near the V-Belts while walker is in operation.</p> <p>DO NOT use a metal chain as a lead. Use rope or nylon rope with a snap at the bottom end.</p> <p>DO NOT ride or allow a child to ride a horse that is being walked.</p> <p>DO NOT oil the V-Belts.</p> <p>DO NOT allow a horse to rear or buck on the walker.</p> <p>DO NOT allow wiring or motor to get wet.</p> <p>DO NOT open the cabinet to adjust speed or to turn the power off. Turn the power off at the remote switch before opening the cabinet.</p> <p>DO NOT use your walker as a merry-go-round for children or adults.</p>	<p>DO grease your walker at the grease fittings once a month, or more often if the unit is in constant use.</p> <p>DO have all electrical hook-ups done by a licensed electrician.</p> <p>DO allow the walker to stop completely before reversing direction.</p> <p>DO make sure when less than 6 horses are being walked that they are opposite each other on the walker.</p>
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As with all electrical driven equipment, the utmost caution must be taken with regard to exposure to electrical shock caused through a rupture of any electrical connections or wire. DO NOT allow water or moisture to accumulate around any wiring, switches or the motor.

All moving parts of this equipment are of heavy gauge steel. DO NOT expose any portion of your body to this equipment while it is in motion.

Moving parts can be hazardous to a person wearing loosely fitting clothing or with long hair.

Use the utmost caution in operating this equipment



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Limited Warranty

Centaur One-Year Limited Warranty

Horse Walker Models 200, 201, 400, 401, 500, 600, and 601, are warranted by **Centaur Horse Walkers, Inc.** to the original user against defects in workmanship or materials under normal use for one year after the date of purchase. Any part which is determined by **Centaur** to be defective in material or workmanship and returned to our authorized service location, as **Centaur** designates, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced at **Centaur's** option. For limited warranty claim procedures see PROMPT DISPOSITION below. This limited warranty gives purchasers specific legal rights, which vary, from state to state.

Limitation of Liability

To the extent allowable under applicable law, **Centaur's** liability for consequential and incidental damages is expressly disclaimed. **Centaur's** liability in all events is limited to, and shall not exceed, the purchase price paid.

Warranty Disclaimer

Centaur has made a diligent effort to illustrate and describe the products in this literature accurately; however such illustrations and description are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions.

Product Suitability

Many states and localities have codes and regulations governing sales, construction installation and/or use of products for certain purposes, which may vary from those in neighboring areas. While **Centaur** attempts to assure that its products comply with such codes it cannot guarantee compliance and cannot be responsible for how the product is installed or used. Before purchase and use of our products, please review the product application, and national & local codes and regulations, and be sure that the product, installation, and use will comply with the.

Certain aspects of disclaimers are not applicable to consumer products; e.g., (A) some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or warranty lasts, consequently the limitations may not apply to you; (B) Also, some states do not allow limitations on how long an implied warranty lasts, consequently the above limitations may not apply to you; and (C) by law, during the period of the limited warranty any implied warranties of merchantability or fitness for a particular purpose applicable to consumer products purchased by consumer, may not be excluded or otherwise disclaimed.

Prompt Disposition

Centaur will in good faith effort for prompt correction or other adjustment with respect to any product, which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom product was purchased. Dealer will be given additional directions. If unable to resolve satisfactorily write to **Centaur Horse Walkers, Inc.** below, giving dealer's name, address, date and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit you, file claim with freight carrier.



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Morse Raider Model # 237Q56L20

EMERSON POWER TRANSMISSION

ATTENTION KEEP WITH UNIT

LUBRICATION AND MAINTENANCE MANUAL

LUBRICATION AND MAINTENANCE MANUAL

Safety First

High voltage and rotating parts can cause serious or fatal injury. Safe installation, operation and maintenance must be performed by qualified personnel. Familiarization with and adherence to NEMA MG2, The National Electrical Code and local codes is recommended. It is important to observe safety precaution to protect personnel from possible injury. Personnel should be instructed to:

-
1. Avoid contact with energized circuits or rotating parts.
 2. Disconnect all power sources before initiating any maintenance or repair.
 3. Act with care in accordance with prescribed procedures in handling and lifting this equipment.
 4. Be sure equipment is properly grounded in accordance with code requirements.
 5. Be sure equipment is properly enclosed to prevent access by children or other unauthorized personnel in order to prevent possible accidents.
 6. Be sure shaft key is fully captive before unit is energized.
 7. Provide proper safeguards for personnel against rotating parts and applications involving high inertia loads which can cause overspeed.
 8. Avoid extended exposure to equipment with high noise levels.
 9. Be familiar with the equipment and read all instructions thoroughly before installing or working on equipment.
-

WARNING – DISCONNECT ALL POWER BEFORE ADJUSTING UNITS

Inspection

Inspect unit to make sure no damage has occurred during shipment

Storage

Units should be stored in a clean, dry location. If units are to be stored for over six months, refer to Emerson Power Transmission.



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Mounting

Mount units on a firm, flat surface which is sufficiently rigid to prevent vibration. Drive belts and chains should be within recommended limits of tightness. Couplings should be properly aligned and balanced. For drive recommendations refer to drive or equipment manufacturers or to Emerson Power Transmission.

WARNING – Guards should be provided for all exposed rotating parts to prevent possible personal injury. Keep fingers and foreign objects away from ventilation and other openings. Applications involving **HIGH INERTIA LOADS** may damage this equipment due to motor overspeed during shut down. Such applications should be referred to Emerson Power Transmission.

CAUTION – Do not force drive coupling or other equipment onto shaft, as bearing damage may result.

Lubrication

1. The normal operating temperature of a worm gear reducer may be as high as 200°F. During initial break-in higher temperatures may occur. If the temperature exceeds 200°F for longer than 100 hours contact Emerson Power Transmission.
2. Install the breather (vent plug) supplied, in correct location – see diagrams below. Adjust the oil level if mounting other than in “Worm Top” position. Unit is shipped from EPT with AGMA #8C oil.
3. Change initial oil fill after 500 hours or 5 weeks. Change oil every 2,500 hours of service or every 6 months. If severe operating conditions exist, change oil every 1 to 3 months.
4. EP oil is not recommended.
5. For ambient temperatures -40°F to 15°F use Mobil SHC634. (This synthetic oil is acceptable for ambient temperatures up to 125°F). When changing oil type, the unit should be carefully drained and flushed prior to refilling.
6. For units running at slow speeds or under other unusual conditions, contact Emerson Power Transmission.

The company names and the names of the Lubricants mentioned below are trade names, trademarks, and logotypes of the respective companies, and are not owned by EPT.

WARNING – HIGH VOLTAGE AND ROTATING PARTS MAY CAUSE SERIOUS OR FATAL INJURY.

TURN OFF POWER TO INSTALL OR SERVICE.

OPERATE WITH GUARDS IN PLACE.

READ AND FOLLOW ALL INSTRUCTIONS.



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G. WARRANTY SERVICE

For Warranty Service call:

EMERSON POWER TRANSMISSION

MAYSVILLE, KY 41056

(606) 564-2011 Phone

(606) 564-2022 Fax

Give complete Name Plate Data, including Identification Number

OIL CAPACITIES (OUNCES)

Center Distance	Worm Top (1)		Worm Bottom	Worm Up	Worm Down (2)	Output Vertical
	L.R. LR	Hollow				
1.33	6	6	8	5	5	6
1.54	16	16	18	14	14	14
1.75	15	15	20	12	12	14
2.06	22	22	22	17	17	20
2.37	31	31	30	26	26	29
2.62	46	46	46	36	36	40
3.00	81	81	80	68	68	72
3.25	81	81	70	63	63	70
3.75	138	100	115	140	140	100
4.50	205	188	180	182	182	157
5.16	324	283	216	240	240	198
6.00	512	421	366	400	400	274

NOTE (1): Units are filled with AGMA #8C oil with amount for this mounting position.

NOTE (2): Not Recommended

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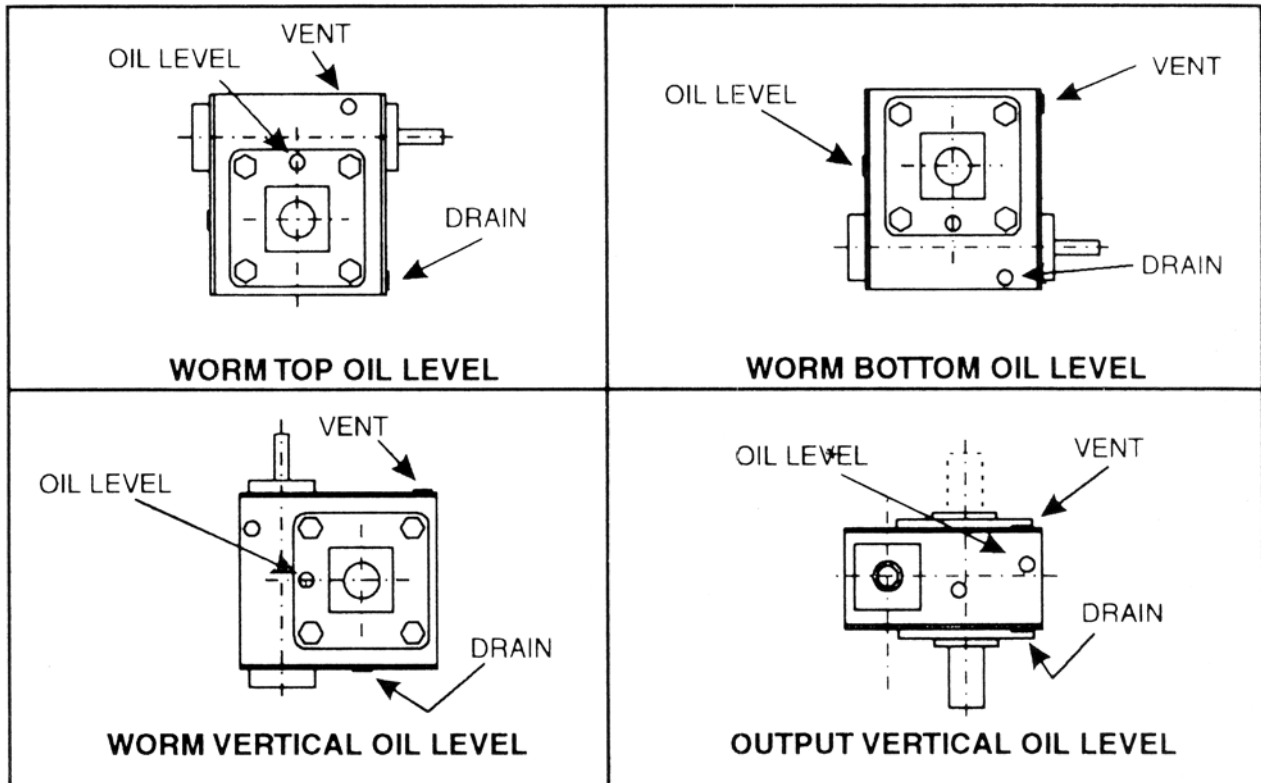
LUBRICANTS / MANUFACTURERS

The companies and oils below are typical. Any make of oil meeting American Gear Manufacturers Association (AGMA) standard #7C and #8C will be satisfactory.

Ambient Temperature	15°F to 60°F	50°F to 125°F
Viscosity Range (cSt at 40°C)	414-506	612-748
ISO Grade	460	680
SAE Gear Lubricant (Approx.)	#140	#250
AGMA Grade	#7C	#8C
Shell	Valvata Oil J460	Valvata Oil J680
Mobil	600 Super Cyl. Oil	Extra Hecla Super Cyl. Oil

NOTE – It takes approximately 31 ounces of gear oil to fill gearbox.

Do NOT use EP (Extreme Pressure) Additives or 90 Weight Gear Oil





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4 Horse Heavy Duty, 5 Horse, & 6 HORSE HOT WALKER Concrete & Electrical Installation Diagrams

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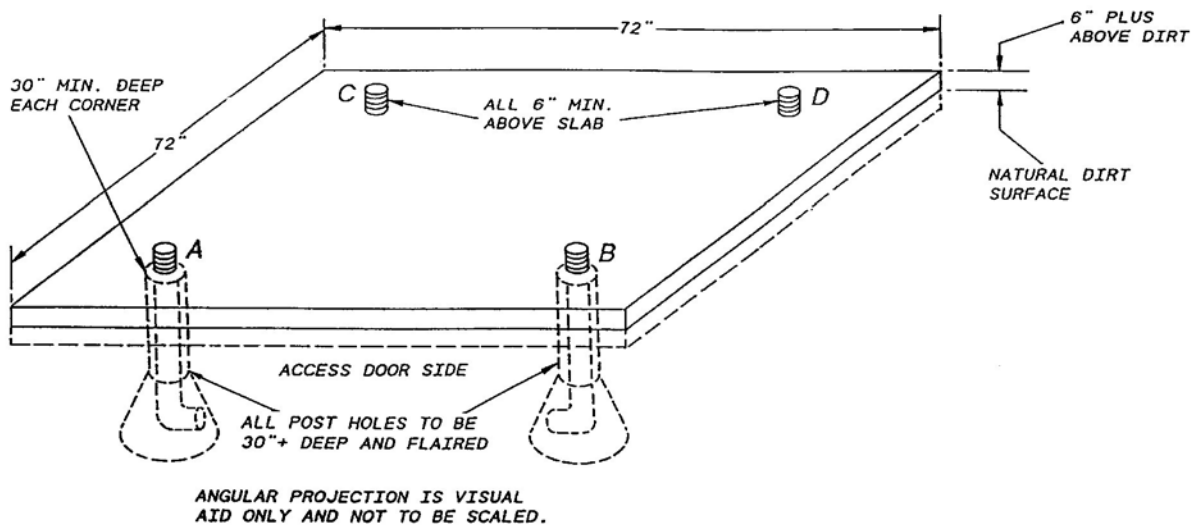
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CENTAUR STANDARD 6 HORSE WALKER CONCRETE PAD INSTALLATION



Center Point for Concrete Anchor Bolts:

A to B = 57 1/2"

C to D = 57 1/2"

A to C = 46 1/2"

B to D = 46 1/2"

Diagonals From Anchor Bolt To Anchor Bolt:

A to D = 74 1/2"

B to C = 74 1/2"

Anchor bolts are 3/4" in diameter & can be either 18" or 24" in length

NOTE: The dimensions are from the BOLTS, not the slab.

Pad should be 6' X 6' Square, 3" Below Grade, and 3" Above Grade



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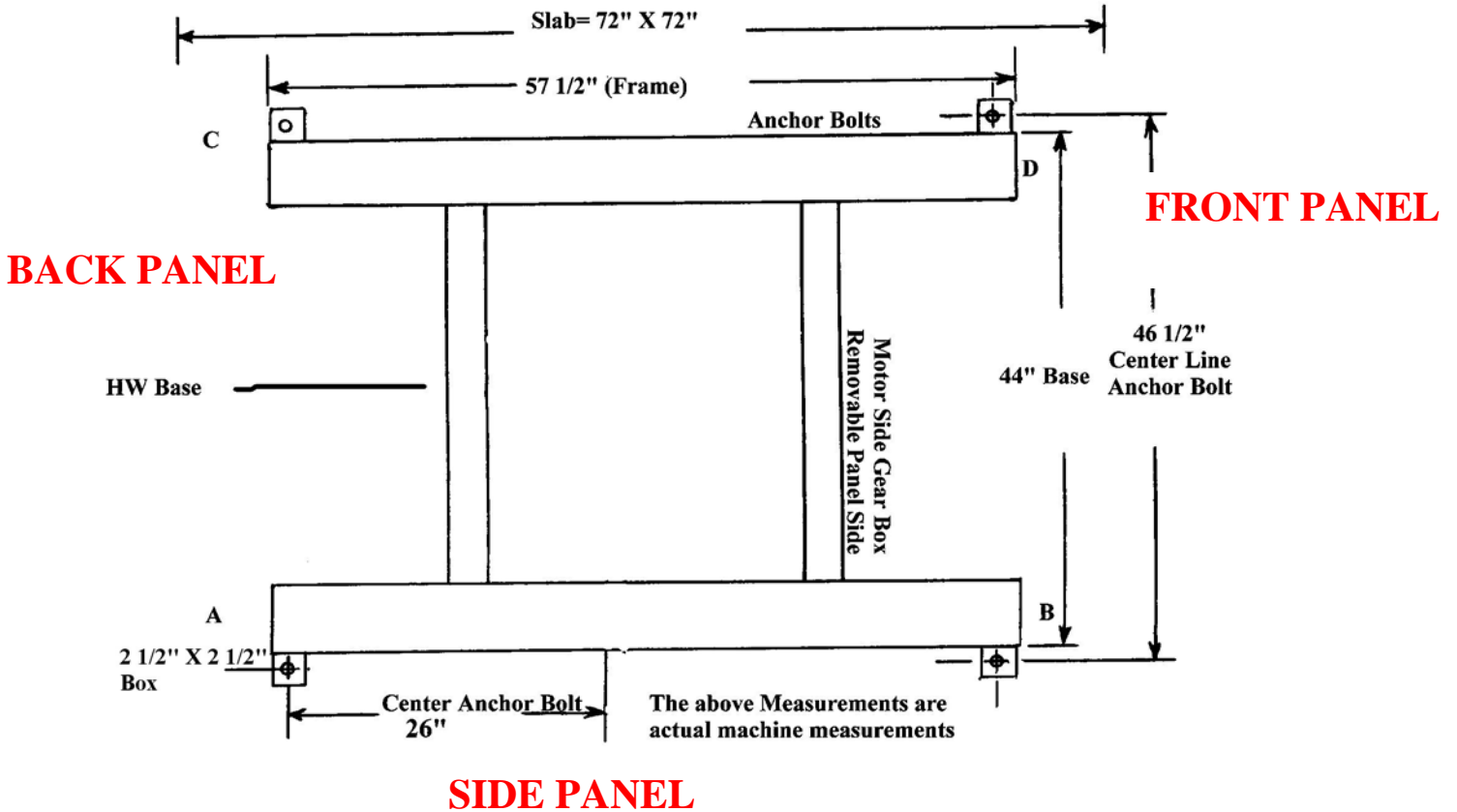
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BASE/PAD MEASUREMENTS

SIDE PANEL



SIDE PANEL

Center Point for Concrete Anchors Bolts:

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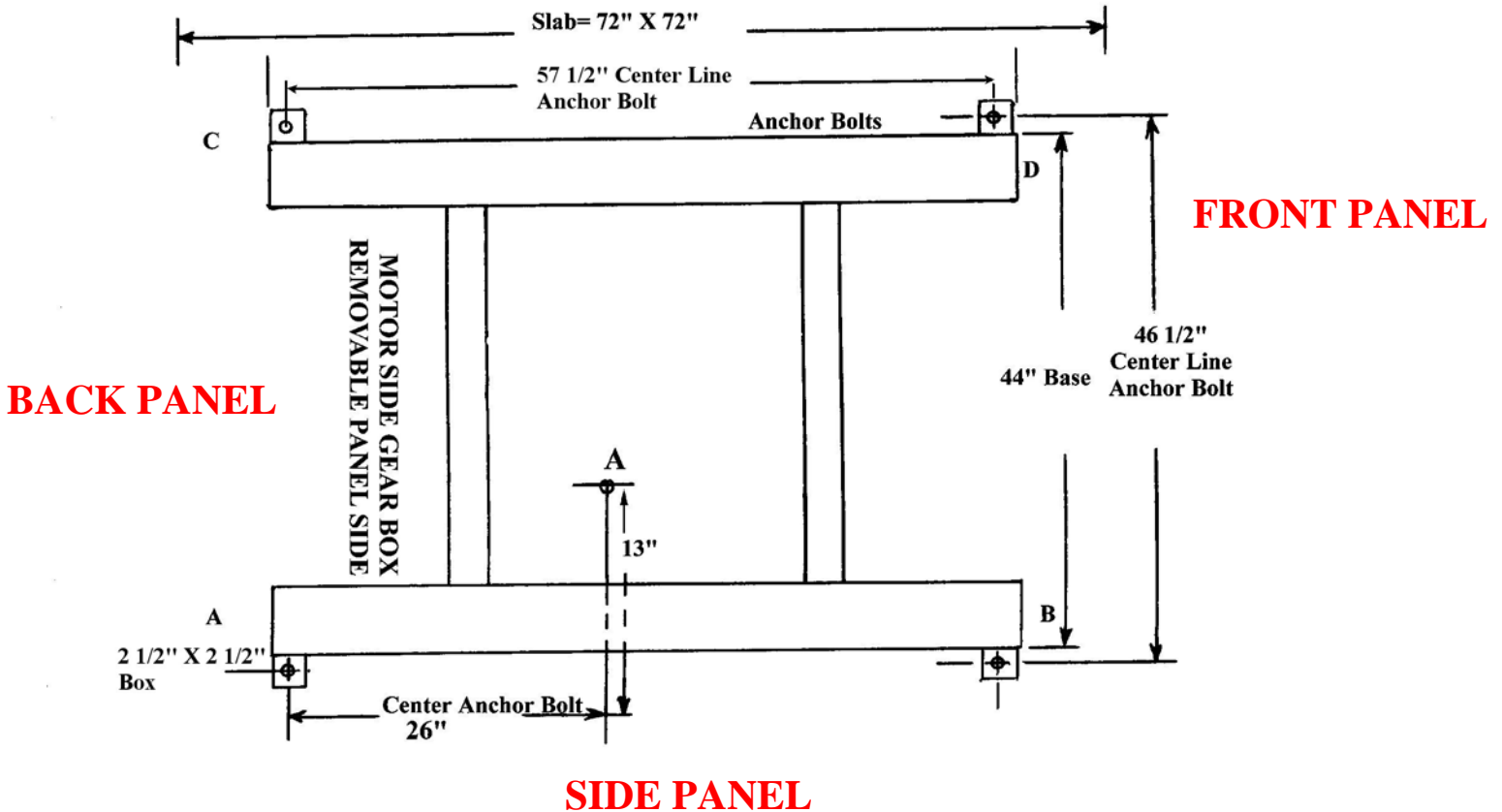
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ELECTRICAL DIAGRAM

SIDE PANEL



Install 3/4" PVC Conduit Schedule 40

Line A: 3 wires 10 gauge, (black, black, green, 220 Volt)

NOTE: The dimensions are from the BOLTS, not the slab.