

CENTAUR



6 HORSE HOT WALKER SERVICE MANUAL

**5761 RIDGEVIEW AVENUE
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(951) 685-7337 FAX (951) 685-0341
1-800-962-8050
www.hotwalkers.com
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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 which 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, 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 it's 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 have to apply some vertical force upwards to the arm on the bottom side, so when you have tightened the cable it does not sag, we strongly recommend that you take a post, a 4 X 4 post put it in at an angle, brace it, shoving the arm up as high as you can get it, that way you can take the slack out of the cable. When you take the post out from under the arm, it will hang down & the cable will be taut. 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 turn buckles 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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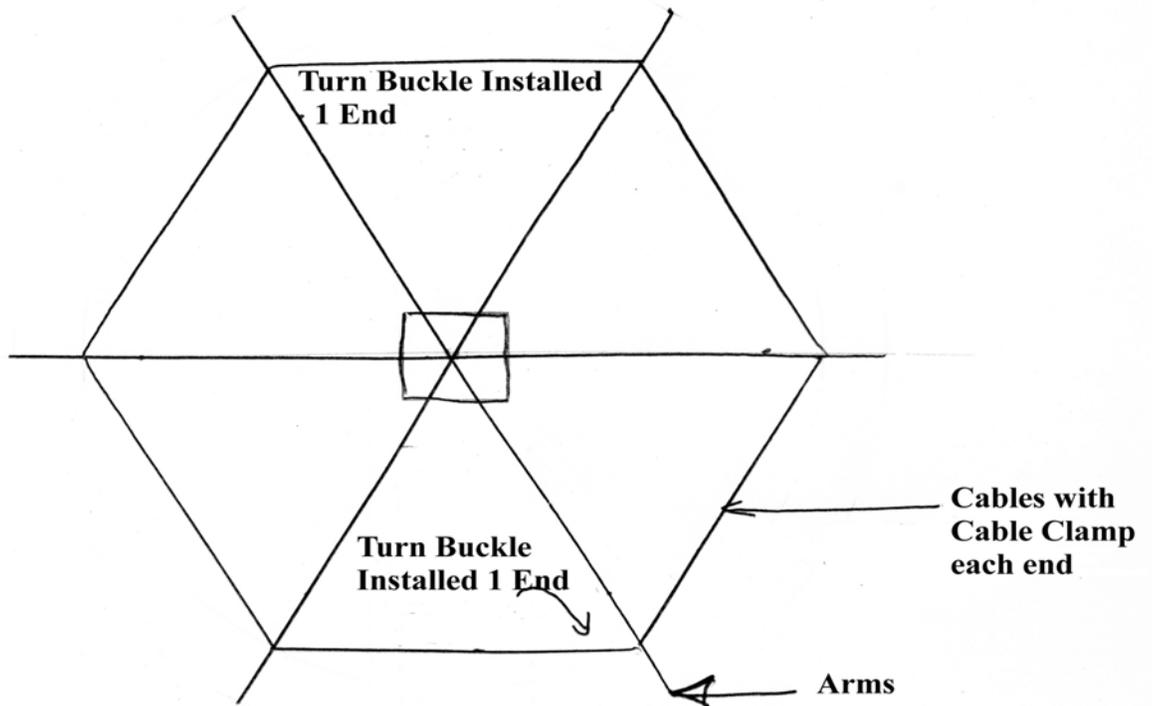
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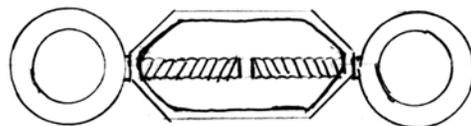
TURN BUCKLE DIAGRAM



Turn Buckles Start Position



Turn Buckles Ending Position





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HOT WALKER LUBRICATION SCHEDULE:

Inside the Hot Walker, the vertical shaft has 2 grease fitting, plus 1 grease fitting on the hub at the base of the Hot Walker 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 gear box 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 909-685-7337. 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, 600, and 601, Free Flow Exercisers Models 400FF, and 600FF, and Mini-Horse Walker Models 200, 201, 400, and 401 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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Electra-Gear

DIVISION OF REGAL-BELOIT CORPORATION

ATTENTION KEEP WITH UNIT

LUBRICATION AND MAINTENANCE MANUAL

LUBRICATION AND MAINTENANCE MANUAL FOR HI-PRO REDUCERS, SIZES 2400, 2410, AND 1600.

WARNING

Improper installation or operation of the reducer may cause injury to personnel, or gear failure. Read all of the operating instructions.

A. INSTALLATION

1. GENERAL
2. The Reducer should be mounted on a flat service on the machine or foundation, securely bolted down and accurately aligned. Shims under the mounting base should be used when required to provide a level-mounting surface.
3. SOLID SHAFT MOUNTING
4. The output shaft should be connected to the load by flexible coupling, sprocket and chain, sheave and V-Belt, or pinion. Check to insure proper alignment and tension of all loads. If sprocket, sheave, or pinion is used, mount as close to the gear housing as possible to minimize bearing load and shaft deflection. Overhung load must be checked to make certain it does not exceed published capacity.

B. RUN-IN PERIOD

The maximum efficiency of Electra Gear Reducers is obtained after a “Run-In” period. The length of time required will depend on the load applied and will be two to four at rated load and considerably longer at light loads. Overloading will not decrease the “Run-in” time but may cause severe wear. During “Run-in”, higher than normal motor currents, higher than normal temperature, lower efficiency and output torque can be expected.



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C. LUBRICATION

CAUTION: Check lube level on all units.

See Paragraph F (Long Term Storage) if storing for more than 6 months.

1. All Electra Worm Reducers are shipped with the proper amount of oil for the mounting position and input speeds ordered. Special lubes or no Factory fill can be specified, if so ordered.
2. The Factory filled lube is a non-toxic rust inhibiting AGMA 8 compound worm gear oil, suitable for an ambient temperature of +50°F to 125°F.
3. Worm Gear Reducer oil must be used to obtain satisfactory gear and worm operating life. Select the proper type of oil from the recommended lubricant chart depending on expected ambient temperature.
 - a. For Ambient temperatures below 15°F or above 125°F, refer to Factory for recommendations.
 - b. Worm Gear Reducer oils and compounds in accordance with AGMA specifications are commercially available from all major oil companies.
4. Before placing in operation, make certain that the solid plugs located in the highest position on the gear housing are replaced with a vented breather plug supplied with the unit. If the mounting position is changed from the position ordered consult the oil level and mounting positions chart to obtain proper oil level.
5. Drain and refill oil after first 100 hours of operation. Under normal operating conditions change oil every 2,000 hours of operation or every 6 months thereafter, whichever occurs first.
6. The maximum input HP rating as shown in the published Rating Tables is based on a stabilized oil bath temperature not exceeding 200°F for normal ambients. Higher oil bath temperatures or continued operation in excess of rated in put HP will tend to shorten the useful life of a lubricant. For ambient temperatures in excess of 125°F, special lubricants or derating of the reducer may be required. Consult the factory or local office with complete application engineering data if this occurs.
7. Irrigation duty and other special duty reducers may have special lubricants and fill levels and special mechanical features. These units should have special instructions included. If not, contact equipment manufacturer (OEM) or Electra.

D. MAINTENANCE

1. This gear reducer was accurately adjusted and tested at the Factory. Care must be taken when the gearcase is disassembled and reassembled. This should be done by an authorized service station as damage to internal parts may result if adjusted improperly. Frequent oil level inspection with the unit not running, (preferably when warm) should be made by removing the proper oil level plug to see that



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the oil level is being maintained. If low (without replacing the oil level plug) add lubricant through one of the upper openings until it comes out of the oil level hole.

E. SERVICE FACTOR

CAUTION

1. Load conditions must be within the published catalog ratings and the recommended AGMA service factors should be used.

F. LONG TERM STORAGE (6 MONTHS UP)

1. Units should be stored indoors, in a dry, warm location.
2. Completely fill the unit with oil.
3. Rotate the input shaft so that the output shaft rotates at least one revolution per month.
4. Completely cover the input and output shaft with RUST INHIBITOR.
5. At time of start up, drain the storage oil, install the breather, and fill to the proper oil level with the correct lubricant for the operating condition.

G. WARRANTY (Limited)

1. **The warranty will cover all of the parts in an Electra reducer for 24 months from the date of shipment. Typical operating hours per month = 175.**
2. The warranty is only for Electra parts and labor. In no event shall our liability exceed the original price of the unit, nor does it cover cost of on site repair, installation or freight.
3. **Contact the Service Department for a complete explanation as to the full warranty policies and conditions of sale.**

All dimensions, designs, and specifications are subject to change without notice.



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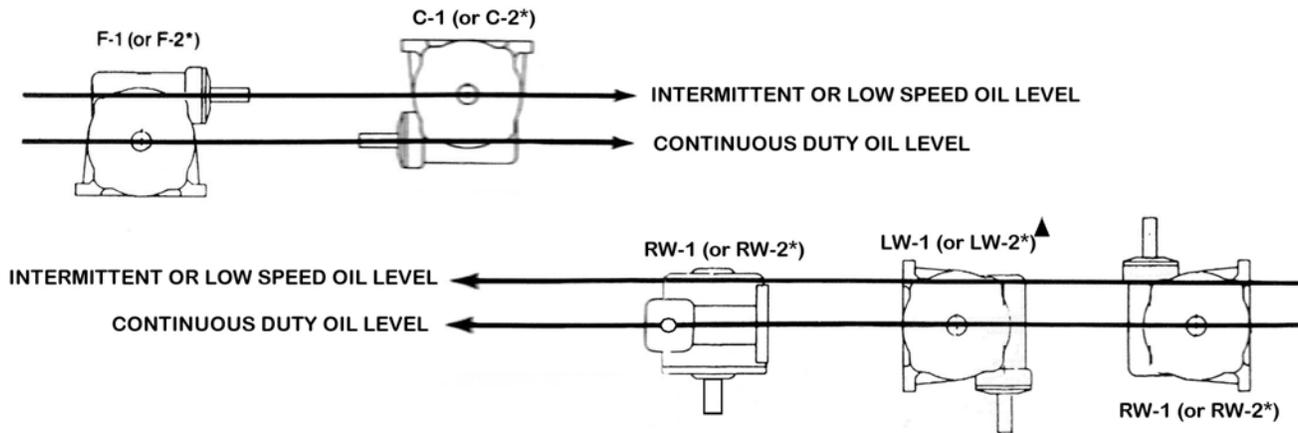
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▲ This position is not recommended as the high speed oil seal must support the full head of gearcase oil.

Consult the Factory for mounting positions other than those shown above.

For the LOW SPEED applications (input RPM 800 or less) use an intermittent oil level.

For INTERMITTENT or CONTINUOUS – EXTREME load duty applications, we recommend filling to 85% level and using a 7 E.P. lubricant such as Shell Omala J-460 or equal

* Output shaft opposite from that shown on drawings.



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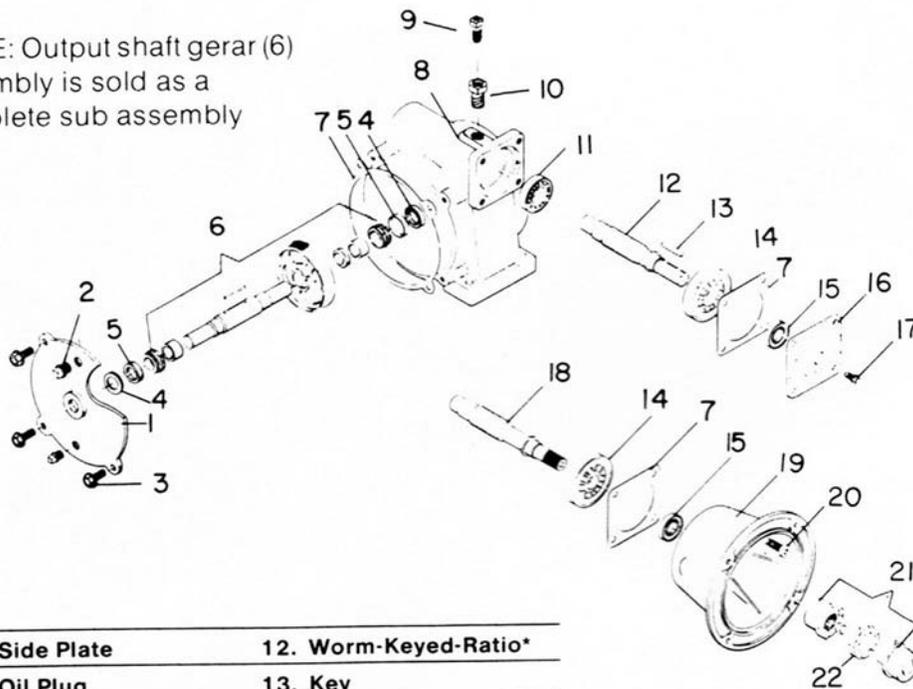
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HI-PRO REDUCERS & C-FLANGE REDUCERS

Size 2400A and 2400AC • Size 2410A and 2410AC.
Size 1600A and 1600AC (TYP. only)

For Standard Hi-Pro Reducer-1-17 Inclusive
For NEMA "C" Hi-Pro Reducer-1-11 and 18-21 Inclusive

NOTE: Output shaft gear (6)
assembly is sold as a
complete sub assembly
only.



1. Side Plate	12. Worm-Keyed-Ratio*
2. Oil Plug	13. Key
3. Bolt	14. Bearing-M.E.-Input
4. O.P. Shaft Seal	15. I.P. Seal
5. Bearing Cup■	16. Bearing Cap
6. Output Shaft/Gear Assy. Ratio*	17. Bolt
7. Shim Set	18. Worm-Splined-Ratio*
8. Gear Housing	19. Nema "C" Flange
9. Pressure Relief Valve	20. Bolt
10. Snap Ring	21. Coupling Assembly
11. Ball Bearing	22. Rubber Insert

■Output Shaft Bearings on 2410's are Ball Bearings.

CAUTION: When ordering parts you **MUST** give the part list number, item number, part description, gear ratio and the **COMPLETE** frame number and model number. This will insure that the correct part is ordered.

* The output/gear assembly and the worm are sold as a set only.



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RECOMMENDED LUBRICANTS (FOR WORM GEARS)

MANUFACTURER	LUBRICANT NAME	AMBIENT TEMP RANGE	A.G.M.A. RATING
Getty Refining Co.	Veedol Asreslube 98	+ 100° to + 150° F	8 EP
Getty Refining Co.	Veedol Asreslube 95	+ 50° to + 105° F	7 EP
Getty Refining Co.	Veedol Asreslube 90	+ 40° to + 100° F	6 EP
Getty Refining Co.	Veedol Asreslube 86	+ 25° to + 90° F	5 EP
Lubrication Eng. Inc.	Almasol 609	+ 45° to + 125° F	8
Lubrication Eng. Inc.	Almasol 608	+ 32° to + 105° F	7
Lubrication Eng. Inc.	Almasol 607	+ 15° to + 70° F	5
Mobil Oil Co.	Mobil Extra Hecla Super	+ 50° to + 125° F	8
Mobil Oil Co.	Mobil Cylinder 600 W	+ 32° to + 100° F	7
Mobil Oil Co.	Mobilgear 630	+ 25° to + 75° F	5 EP
Shell Oil Co.	Omala 460	+ 40° to + 115° F	7 EP
Shell Oil Co.	Valvata J460	+ 40° to + 105° F	7
Shell Oil Co.	Omala 680	+ 50° to + 125° F	8 EP
Shell Oil Co.	Valvata J680	+ 50° to + 125° F	8
Texaco Inc.	Meropa 680	+ 45° to + 120° F	8 EP
Texaco Inc.	Meropa 460	+ 32° to + 100° F	7 EP
Texaco Inc.	Meropa 220	+ 15° to + 75° F	5 EP

SPECIAL BROAD TEMPERATURE RANGE LUBRICANTS

Electragrear International Inc.	Electra Lube	+ 15° to + 125° F	--
Kendall	3 Star	- 10° to + 100° F	7
Mobil Oil Co.	Mobil SHC 634	0 to + 135° F	7 EP
Mobil Oil Co.	Mobil SHC 629	- 25° to + 100° F	5 EP
Mobil Oil Co.	Mobil SHC 626	- 40° to + 40° F	3 EP

SPECIAL COLD DUTY LUBRICANTS

Conoco	Polar Start 600	- 40° to + 10° F	--
Lubrication Eng. Inc.	Almasol 606	- 10° to + 40° F	3 EP
Mobil Oil Co.	Mobil SHC 624	- 55° to 0 F	--
Mobil Oil Co.	Gargoyle Arctic Oil "C"	- 30° to + 5° F	--
Mobil Oil Co.	Mobilgear 627	- 10° to + 40° F	3 EP
Shell Oil Co.	Donax A.T.F. T-6	- 55° to + 5° F	None

IRRIGATION DUTY, TYPICAL LUBRICANTS

Most use 85% fill (2 ¾ pints) or refer to special instructions.	+ 40° to + 115° F	7 EP
Use 5EP or 7EP lubes. Reference above manufacturers.	+ 25° to 75° F	5 EP

1. Ambient temperature range is based upon 1.0 service factor.



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2. Above lubes are compounded for use in **worm gears**. Some contain noncorrosive, extreme pressure. **DO NOT USE** lubes that contain sulphur and/or chlorine which are corrosive to bronze gears. Extreme pressure lubes, in some cases, contain materials that are toxic. Avoid use of these lubes where they can result in harmful effects. If in doubt, consult your local lube supplier.

3. Only use A.G.M.A. rated **worm gear** lubes.



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Electra-Gear

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WAREHOUSE OPERATIONS

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Fax 219-489-8177

LOS ANGELES

1110 North Lemon Street
Anaheim, California 92801
Phone 714-535-6061
Fax 714-535-2489

ALLENTOWN

6520 Stonegate Drive, Suite 120
Allentown, Pennsylvania 18106
Phone 610-366-1751
Fax 610-366-1754

ELECTRA-GEAR SERVICE CENTERS

WEST COAST

SERVICE CENTER

1110 North Lemon Street
Anaheim, California 92801
Phone 800-877-4327

WEST COAST

SERVICE CENTER

6520 Stonegate Drive, Suite 120
Allentown, Pennsylvania 18106
Phone 610-366-1751
Fax 610-366-1754

U.S. FACILITIES

ANAHEIM, CALIFORNIA

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6 HORSE HOT WALKER Concrete & Electrical Installation Diagrams

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Revised 9/2004



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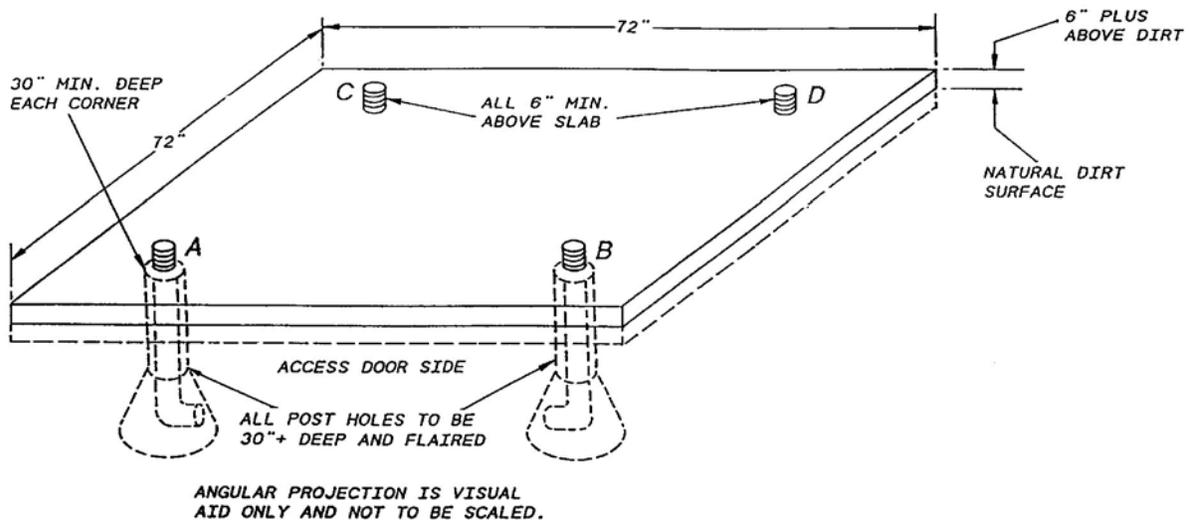
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CENTAUR STANDARD 6 HORSE WALKER CONCRETE PAD INSTALLATION



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



Centaur Horse Walkers, Inc.

5761 Ridgeview Avenue

Mira Loma, Ca 91752

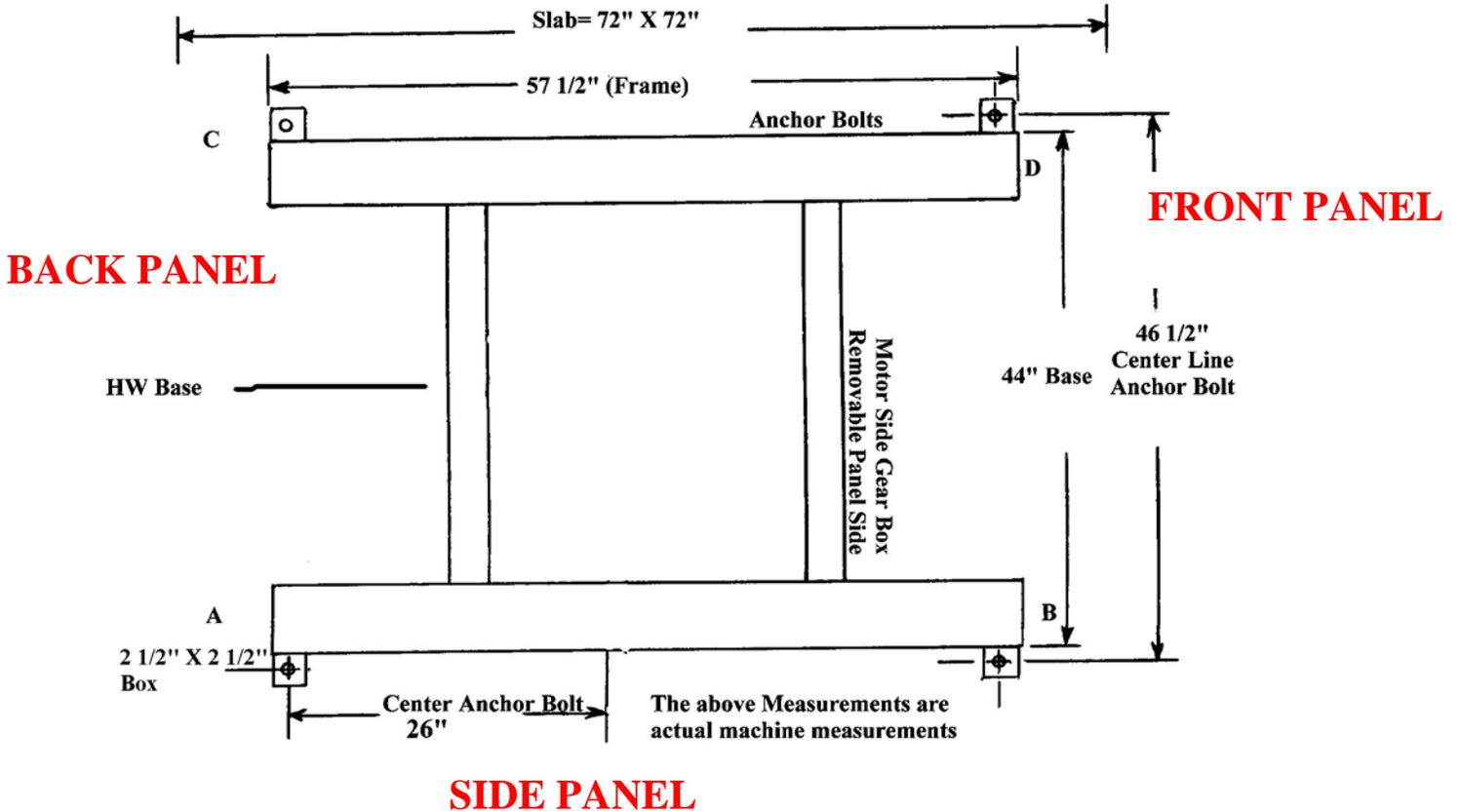
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BASE/PAD MEASUREMENTS

SIDE PANEL



SIDE PANEL

Center Point for Concrete Anchors 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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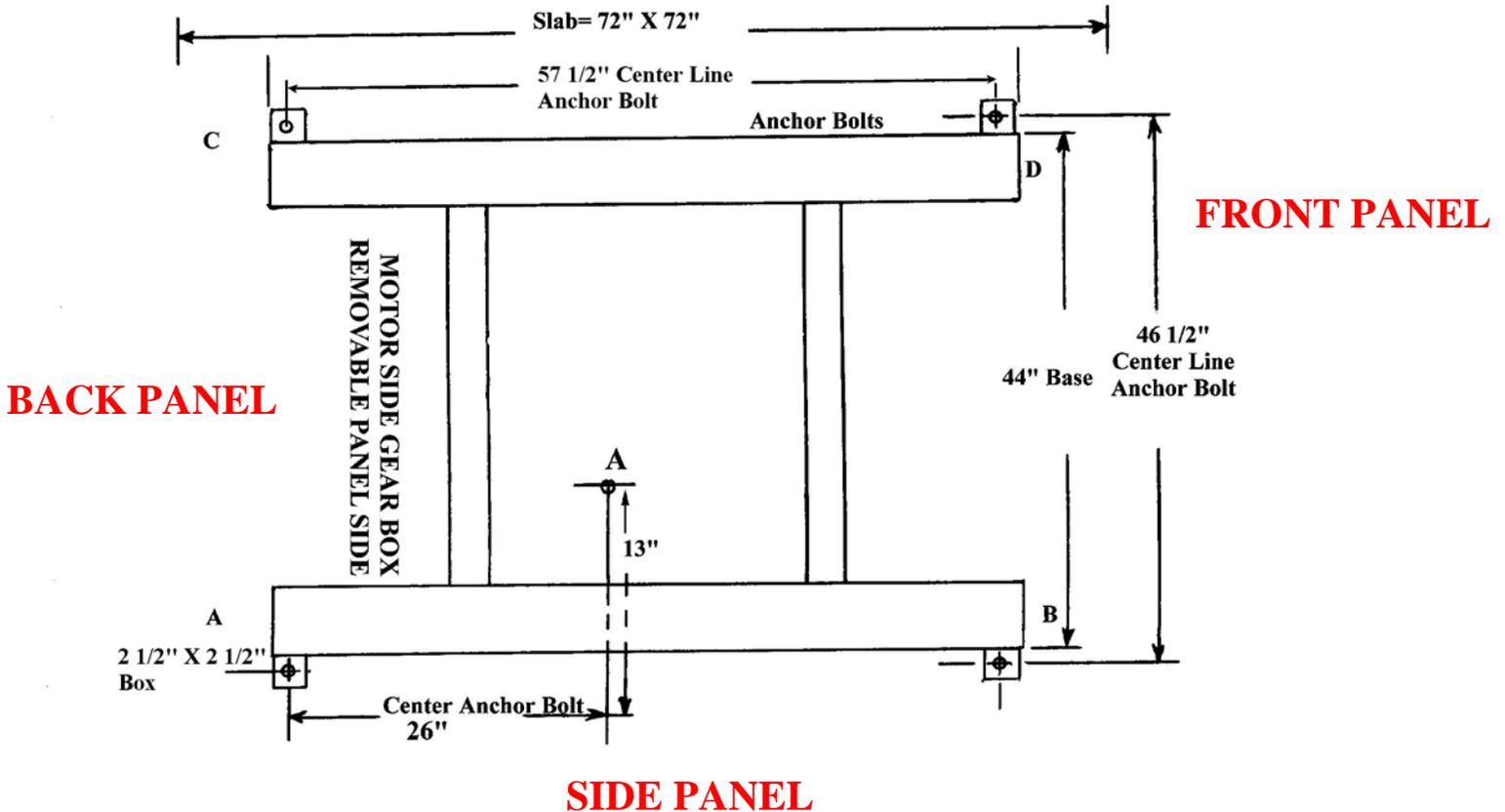
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ELECTRICAL DIAGRAM

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.