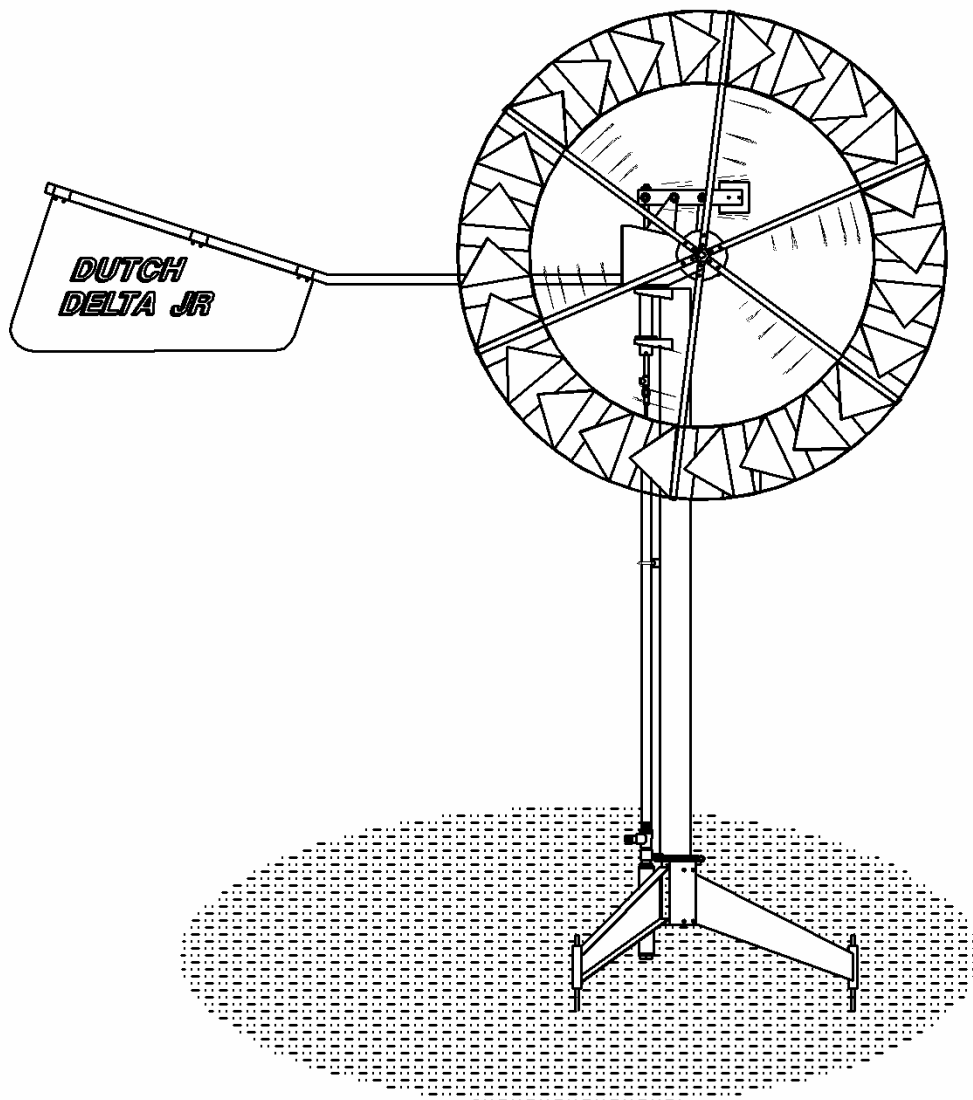


DELTA JR

OWNERS MANUAL



BY:
DUTCHTM
INDUSTRIES LTD.

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INTRODUCTION

In recent years the farming community has discovered the need for an inexpensive method of pumping water for either livestock or for crop irrigation. Aeration has proven to be a non chemical means of reducing containments.

The **DELTA JUNIOR** provides a means of both pumping water from either a well site or a dugout, as well as having the ability to aerate a dugout at the same time. It also can stand alone as either a water pumper or an aerator.

The Delta Jr. uses the proven Dutch Delta Blade Design along with a virtually maintenance free mechanical construction to ensure that the customer will be satisfied with their newly acquired Dutch Product.

CAUTION

The use of wind power is not new, however it is not always well understood. Be sure that you read these instructions carefully as it is your responsibility as the owner to apply this product appropriately to your situation.

This Wind Turbine is a very powerful tool and if you come in contact with any of the moving parts you can be seriously injured or be killed.

Do not carry out any maintenance work on the turbine unless you have turned the unit out of the wind and have tethered the rotor so it cannot turn.

This turbine is designed to always turn. It will govern its speed through the use of a swinging tail design. To stop the turbine, be careful not to foul the rotor as you throw a rope over the tail pipe and turn unit out of the wind until it stops. Then tether the rotor before commencing work.

GETTING STARTED

The Tools and Material Required are as follows:

- 3/8" Socket Set
- 2 24" Pipe Wrenches
- 3/8", 7/16", 1/2", 9/16", 1 3/4", Open Ended Wrenches
- 12" Adjustable Wrench (Crescent Wrench)
- #2 Robertson Screw Driver
- 6" Line Up Punch, 3/4 diameter end
- 2 lb. Ballpeen Hammer
- 1 set of Allan Wrenches, (Metric and English)
- 1 Sledge Hammer
- 8' Step Ladder
- 1 Carpenter's Level
- 1 Tape Measure
- 30' of 1/2" Nylon Rope
- Emery Cloth
- 10' of 3/8" Nylon Rope
- Centre Punch
- Spade
- 1 Round File and 1 Flat File

Suggested Torque for sizes of bolts and nuts are as follows:

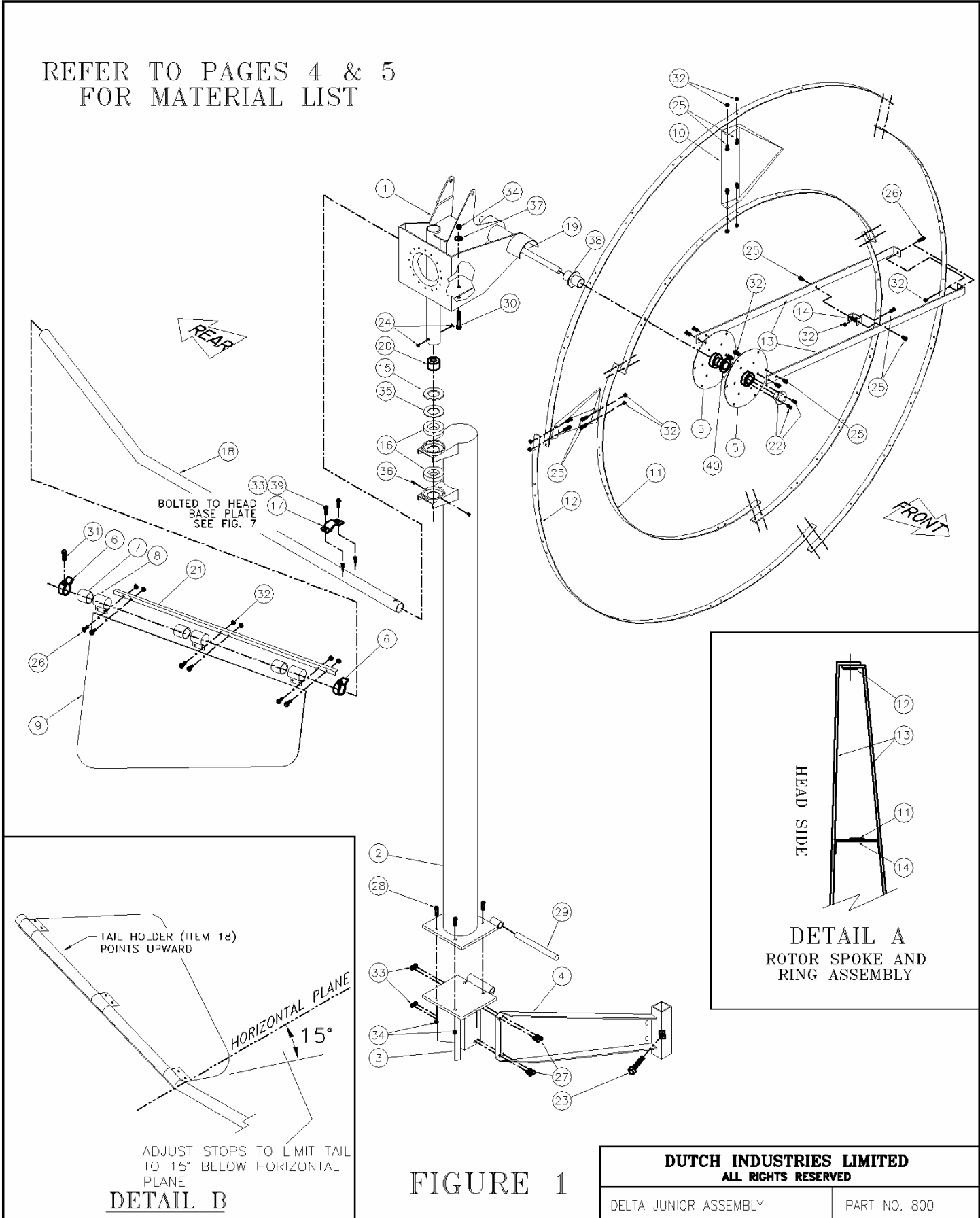
1/4"	8 ft. lb.,
5/16"	17 ft. lb.
3/8"	30 ft. lb.
1/2"	75 ft. lb.

INITIAL SET UP

When you receive your quality Dutch Product, the customer should unpack all components to ensure that all parts have been shipped. Refer to Figure 1 for listing. Once the quantities are confirmed, proceed to your site. Be sure to bring the tools listed above.

- There should be three pieces, one pallet, a 12' long, yellow tower, and a black bent pipe(The yellow tower has parts inside of it). This is for an installation with the tubular tower. For a parts list for the lattice tower, refer to the lattice tower manual.

REFER TO PAGES 4 & 5
FOR MATERIAL LIST



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DELTA JUNIOR ASSEMBLY	PART NO. 800

DELTA JUNIOR PARTS LIST (Tubular Tower)

ITEM	PRODUCT CODE	DESCRIPTION	QUANTITY
1	735	DELTA JUNIOR HEAD	1
2	736	DELTA JUNIOR TOWER	1
3	737	DELTA JUNIOR TOWER BASE	1
4	738	DELTA JUNIOR LEG	3
5	709	DELTA JUNIOR ROTOR PLATE	2
6	710	TAIL HOLDING COLLAR	2
7	712	TAIL HINGE BUSHING	3
8	713	TAIL HINGE MOUNT	3
9	714	TAIL	1
10	715	DELTA JUNIOR BLADE	24
11	716	ROTOR INSIDE RING SECTION	3
12	717	ROTOR OUTSIDE RING SECTION	3
13	718	ROTOR SPOKE	12
14	719	ROTOR SPOKE SPACER	6
15	35610	2 3/8" PLASTIC BUSHING	1
16	787	3/4" PIVOT BUSHING	2
17	785	TAIL HOLDER BRACKET	1
18	723	TAIL HOLDER	1
19	776	ROTOR CRANK SHAFT	1
20	735.8	PIPE BUSHING	1
21	731	TAIL ANGLE SUPPORT	1
22	H1	1" BROWNING BUSHING	1
23	SQ12212NC	1/2" X 2 1/2" SQUARE HEAD SET SCREW	3
24	ST195	#10 - 32 X 5/8" TAPPING SCREW	2
25	HH51634PLC5	5/16" X 3/4" HEX BOLT	130

ITEM	PRODUCT CODE	DESCRIPTION	QUANTITY
26	HH516112PLC5	5/16" x 1 1/2" HEX BOLT	20
27	HHW3834PLC5	3/8" X 3/4" FLANGE BOLT	12
28	HH122PLC5	1/2" X 3/4" HEX BOLT	4
29	707.5	HINGE PIN	1
30	HH123PLC5	1/2" X 3" HEX BOLT	1
31	110554	1/2" X 2" SQUARE HEAD SET SCREW	5
32	CN516PL	5/16" CLEAVE NUT	150
33	CN38PL	3/8" CLEAVE NUT	20
34	CN12PL	1/2" CLEAVE NUT	5
35	M56H	2 1/2" MACHINE BUSHING	1
36	SM834C	#8 X 3/4" SHEET METAL SCREWS	4
37	FW12PL	1/2" FLAT WASHER	1
38	835	3" SPACER RING	1
39	HH38212PLC5	3/8" X 2 1/2" HEX BOLT	2
40	H118	1 1/8" BROWNING BUSHING	1

DELTA JR. INSTALLATION INSTRUCTIONS

*** Refer to Figure 1 Unless Otherwise Stated**

- 1.) If static water level is more than 15 feet below the level it has to be pumped, the pump will have to be positioned within 15' of vertical distance above water level. Refer to Figure 2, on Page 7, for instruction. If the pump can be less than 15' above water level or if the installation is for aeration only, refer to Figure 3, on page 7.

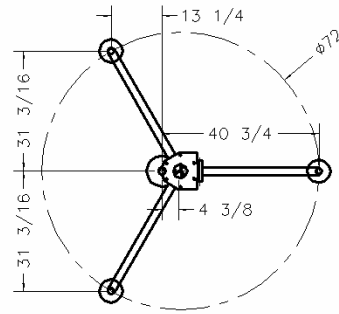
CAUTION! Your local soil conditions may require more secure foundations.

- 2.) Assemble Parts 3 and 4 together. (Base Assembly). See Figure 1, on Page 3.
- 3.) Place the Base Assembly on the location desired. Mark the position in which you would like to place the anchors. Remove the Base Assembly and install the anchoring system desired. The choice of anchoring system is the customers' responsibility.
- 4.) Place Base Assembly onto anchors and level base. Tighten set screws to proper 1/2" bolt torque. See Page 2.
- 5.) Now, install Item 2 onto tower base using Item 29. **Note:** The orientation of the tower shown in Figure 4. See Page 8.
- 6.) Install bushings, Item 16, shown into tower and fasten bottom bushing using the screws Item 36 provided. Install bushings, Items 15 and 35 onto Item 1 as shown.
- 7.) Now install windmill head, Item 1, into newly installed bushings.
- 8.) Now install 3" Spacer, Rotor Plates and Bushing, Items 5, 22 and 38. (See Figure 7, Page 25) Be sure to align the spoke holes. Tighten outside plate first before aligning holes.

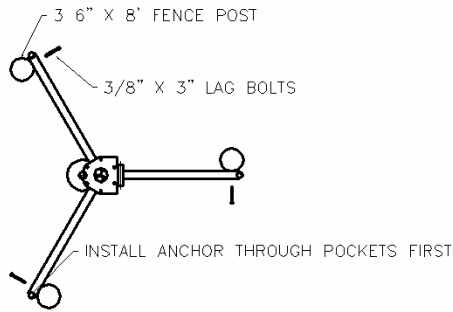
DELTA JR. INSTALLATION INSTRUCTIONS

(CONTINUED)

DUTCH INDUSTRIES CANNOT INDICATE THE PROPER ANCHORING PROCEDURES DUE TO THE VARYING SOIL CONDITIONS. CALL YOUR LOCAL AGRONOMIST FOR YOUR SOIL CONDITIONS.



TOP VIEW



FENCE POST ANCHOR DETAIL

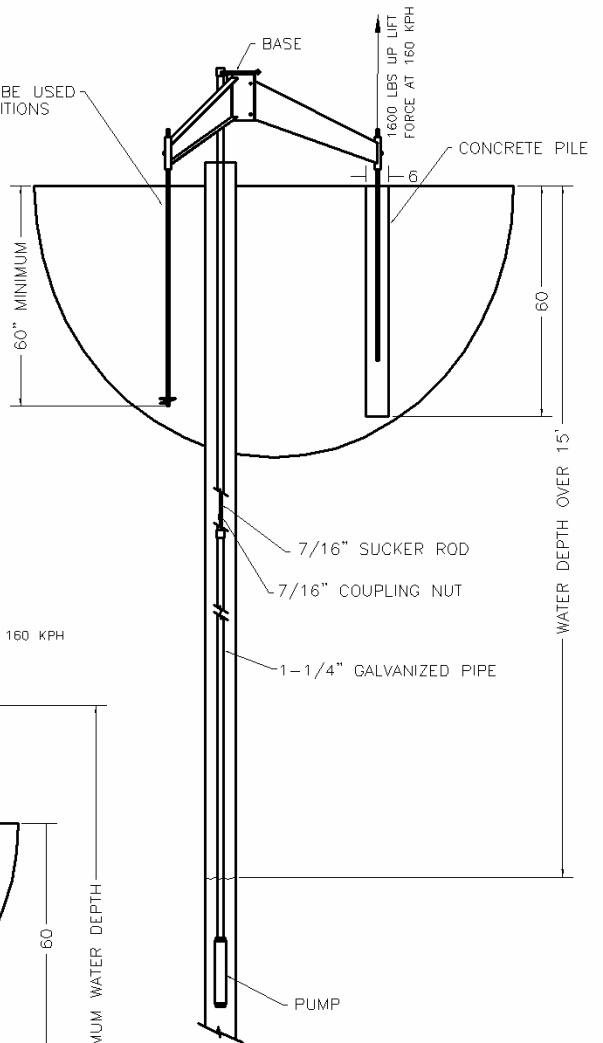


FIGURE 2

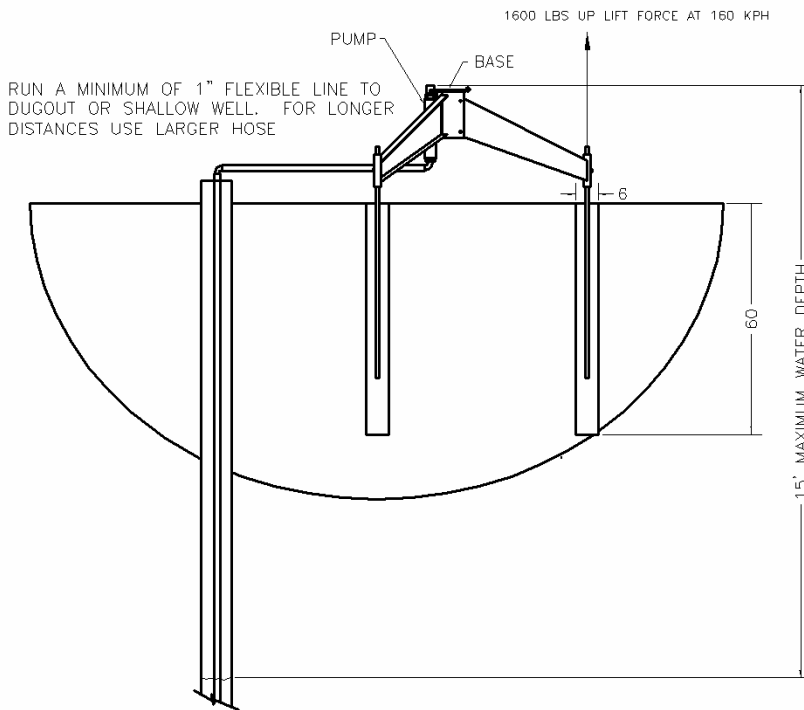


FIGURE 3

DELTA JR. INSTALLATION INSTRUCTIONS (Continued)

- 9.) Tighten the 1/4" bolts on the tapered hubs, Item 22, by alternating bolts until they are both equally tight.
- 10.) Loosely install all spokes, Item 13 to rotor plate; Do not tighten bolts.
- 11.) Loosely install outer ring sections, Item 12, onto spokes, Item 13. (See Detail A, page 3) Be sure to install blades at all spoke connections, and at all outer ring connections. Note that the Inside Ring connection should be one hole off the outside ring connection. Note that a spoke connects with a ring every fourth set of holes.

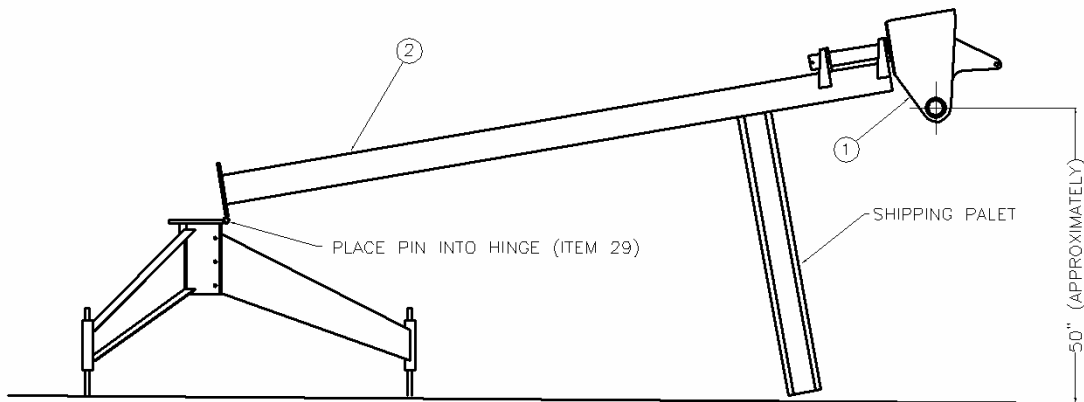
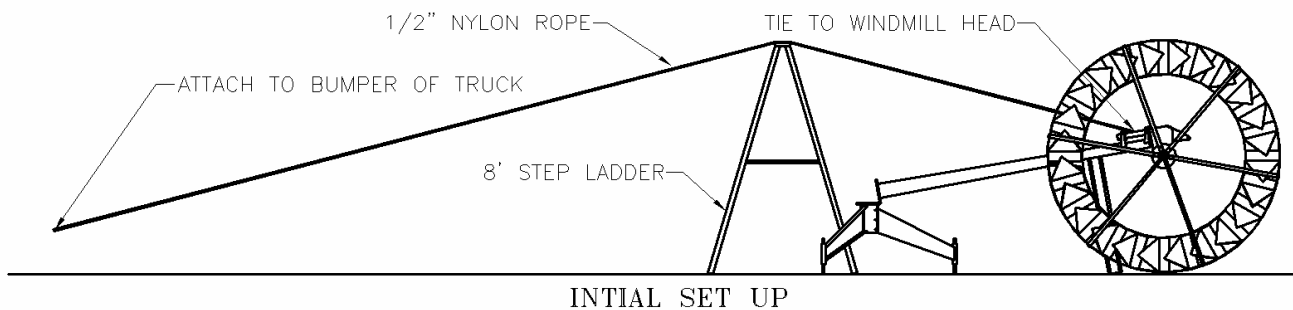


FIGURE 4

DELTA JR. INSTALLATION INSTRUCTIONS (Continued)

- 12.) Loosely Install the inner ring, Item 11, in a similar fashion as described in step 11, staggering the ring connections by one hole. Note that the ring will look somewhat out of round, but this will improve once the rest of the blades are in place.
- 13.) Install the rest of the Delta blades, Item 10, and rotor spoke spacers, Item 14.
- 14.) Snug all bolts on the inner ring, then the outer ring. Then tighten the inner ring and then the outer ring. Next, tie rotor to the tower using a small piece of rope.
- 15.) Mount tail holder, Item 18, using tail holder bracket, Item 17, onto windmill head using hardware provided. Install hardware, Items 30, 34, and 37 to mount end of tail holder to windmill head. (Also see Figure 7, Page 25). Note the placement of the tail when the windmill in the upright position. (See Detail B, Page 3).
- 16.) Install tail, Item 9, using parts and hardware as shown. Ensure that the plastic bushing, Item 7, is held captive by Item 8, if not, take centre punch and fold the edge of the hinge over the bushing. Tail holding collars, Item 6, are installed flush with the end of the tail holder, Item 18, and leaving approximately 1/8" clearance for tail hinge mount, Item 8.



NOTE
LADDER WILL TILT WHEN PULLING ON ROPE

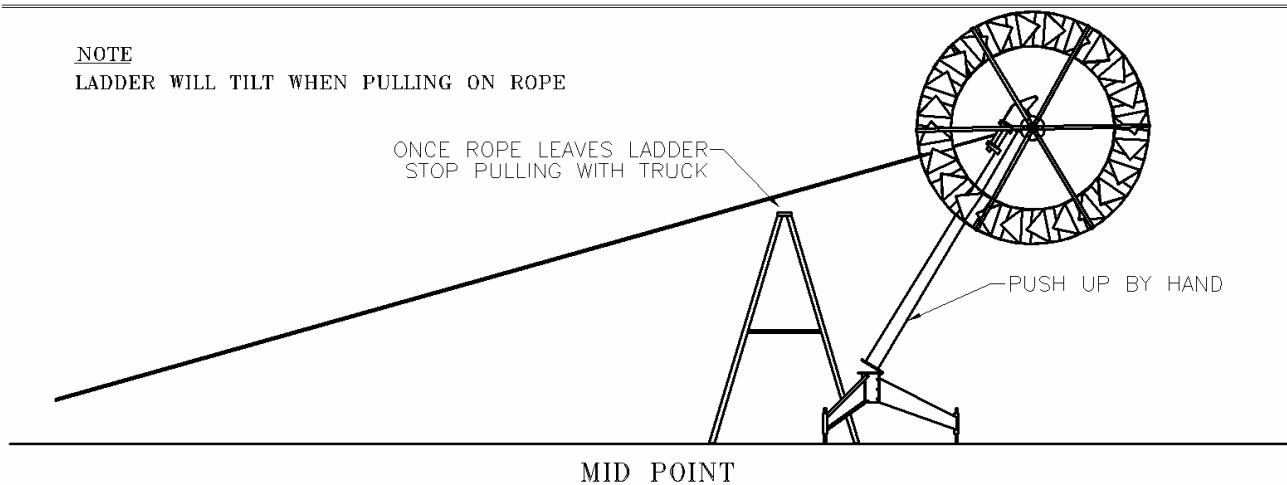
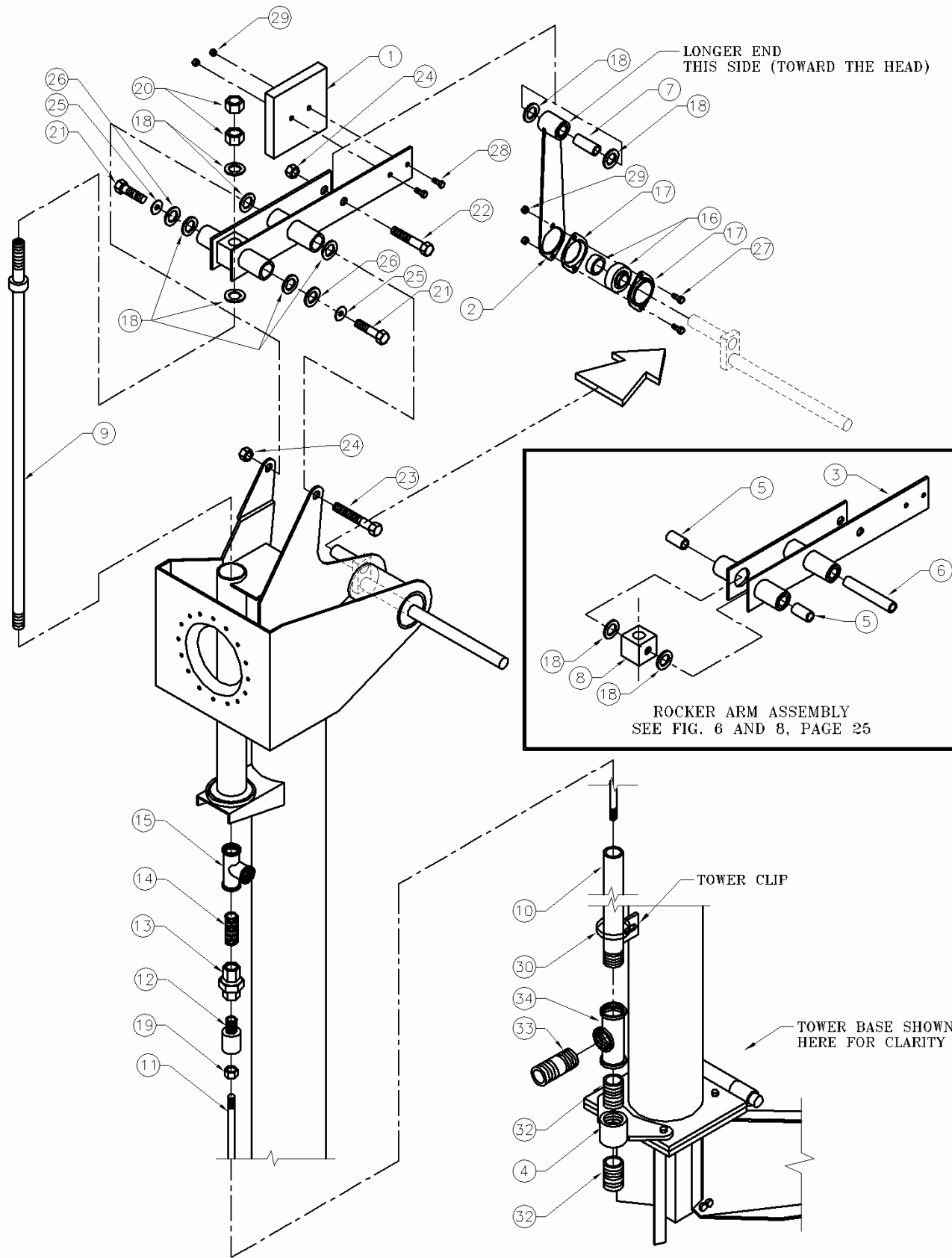


FIGURE 5

DELTA JR. INSTALLATION INSTRUCTIONS (Continued)

- 17.) Mount accessories, such as water pump or aeration pump, onto the Delta Jr. See individual instructions in the Appendix of this manual.
- 18.) Once the accessories are in place, raise the tower as shown in Figure 5.
- 19.) Install specified bolts to base, and torque to desired amount.
- 20.) Remove lifting rope. Then, remove the rope that tied off the rotor. This will enable the windmill to turn.
- 21.) Listen and watch for squeaks or unusual operation. Be very sure no bolts hit or pumps bottom out. If there is nothing amiss, your installation is complete.

NOTE: FOR WATER PUMPING APPLICATION, AN INITIAL PRIMING OF THE PUMP MAY BE REQUIRED. YOU MAY WISH TO SOAK YOUR PUMP IN A PAIL OF WATER FOR 24 HOURS PRIOR TO INSTALLATION. THIS ALLOWS THE LEATHERS IN THE PUMP TO SWELL, RESULTING IN A BETTER SEAL



WINTERIZATION INSTRUCTIONS

LOOSEN NUT TO ALLOW FOR SWIVEL OF TEE.
HOLD SUCKER ROD AND UNSCREW THE TEE
ASSEMBLY.

NOTE THE LOCATION OF THIS TEE IS NOT CRITICAL.
WATER WILL DISCHARGE TO ANY LEVEL, UP TO 1'
BELOW THE TOP OF ITEM #10.

NOTE FOR WELL APPLICATION USE
ITEM 40. FOR OTHER APPLICATIONS
USE ITEM 39

NOTE

DRILL A 1/8" HOLE FOR WINTERIZATION.
LOCATE HOLE 12 FT BELOW GROUND LEVEL.

REFER TO PAGES 13 & 14
FOR MATERIAL LIST

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WATER PUMP EQUIPMENT REQUIREMENTS WITH OPTIONS

PARTS LIST FOR DELTA JR. WATER PUMP KIT

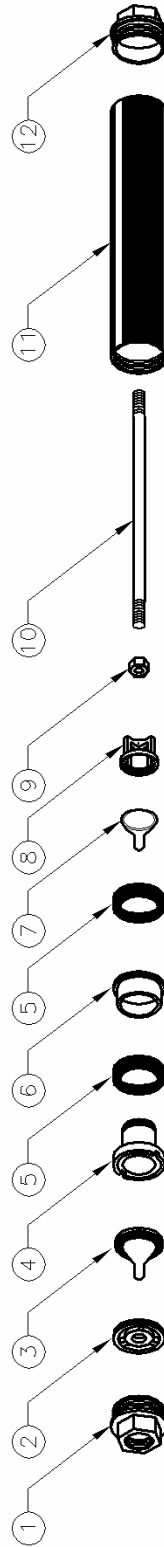
ITEM	PRODUCT CODE	DESCRIPTION	QUANTITY
1	728	COUNTER WEIGHT	1
2	759	DELTA JUNIOR PIVOT ARM ASSEMBLY	1
3	786	ROCKER ARM ASSEMBLY	1
4	779	PUMP MOUNT	1
5	778	SHORT SLEEVE, ROCKER ARM	2
6	781	LONG SLEEVE, ROCKER ARM	1
7	782	2 1/4" SLEEVE, ROCKER ARM	1
8	783	2" SQUARE BLOCK	1
9	784	SWIVEL ROD ASSEMBLY	1
10	790	1 1/2" DIAMETER, RISER PIPE	1
11	791	SUCKER ROD LINK	1
12	816	REDUCER, 1/2" - 7/16"	1
13	12U	1/2" UNION	1
14	CN12	1/2" CLOSE NIPPLE	1
15	10000081	1/2" FEMALE TEE	1
16	EM205DR	BEARING, 1" BORE, C/W COLLAR	1
17	110553	2 BOLT - 205 SRS BEARING HOUSING	2
18	110608	1 5/8" X 15/16" PLASTIC WASHER	10
19	JN716PL	7/16" JAM NUT	1
20	HN78PLNF	7/8" UNF NUT	2
21	HH58212PLC5	5/8" X 2 1/2" HEX BOLT	2
22	HH58312PLC5	5/8" X 3 1/2" HEX BOLT	1
23	HH58612PLC5	5/8" X 6 1/2" HEX BOLT	1
24	CN58PL	5/8" CLEAVE NUT	2

ITEM	PRODUCT CODE	DESCRIPTION	QUANTITY
25	LW58PL	5/8" LOCK WASHER	2
26	FW58PL	5/8" FLAT WASHER	2
27	HHW51634PLC5	5/16" X 3/4" FLANGE BOLT	2
28	HH5162PLC5	5/16" X 2" FLANGE BOLT	2
29	CN516PL	5/16" CLEAVE NUT	4
30	HC3	3" HOSE CLAMP	1
31	CN716PLC	7/16" COUPLING NUT	1
32	110568	1 1/4" CLOSE NIPPLE	2
33	110569	1 1/4" NPT - 1 1/4" BARB ADAPTOR	1
34	110570	1 1/2" X 1 1/4" X 1 1/4" REDUCER TEE	1
OPTIONS			
35	442-212-6	2 1/2" BRASS PUMP	1 OR 2
36	792	RISER PIPE 1 1/4" X 120" GALVANIZED	2
37	793	SUCKER ROD, 7/16" X 120"	1
38	PC114G	1 1/4" GALVANIZED PIPE COUPLER	1
39	110579	1 1/4" MALE NPT - 1" BARB ELBOW	1
40	110580	1 1/4" MALE NPT - 1" BARB	1
41	110581	1" BLACK POLY PIPE	PER FOOT
42	110632	1 1/4" BLACK FLEX PVC PIPE	PER FOOT

- NOTES:
1. CUSTOMER MUST SPECIFY DIAMETER AND LENGTH OF BARREL WHEN ORDERING A BRASS PISTON PUMP
 2. FOR WATER PUMPING APPLICATION, AN INITIAL PRIMING OF THE PUMP MAY BE REQUIRED. YOU MAY WISH TO SOAK YOUR PUMP IN A PAIL OF WATER FOR 24 HOURS PRIOR TO INSTALLATION. THIS ALLOWS THE LEATHERS IN THE PUMP TO SWELL, RESULTING IN A BETTER SEAL.



ASSEMBLED VIEW



EXPLODED VIEW

12	1	FLUSH TOP CAP
11	1	FLUSH BARREL
10	1	PLUNGER ROD
9	1	BRASS HEX LOCK NUT
8	1	PLUNGER CAGE
7	1	PLUNGER POPPET
6	1	PLUNGER RING
5	2	CUP LEATHERS
4	1	PLUNGER FOLLOWER
3	1	CHECK POPPET FOR #442
2	1	FLAT SPIDER CAGE
1	1	FLUSH BOTTOM CAP
ITEM NO.	QUANTITY	DESCRIPTION
MATERIAL LIST		

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BRASS PISTON PUMP DETAIL

APPENDIX 1
INSTALLATION OF WATER PUMP KIT

*** Refer to Page 11 Unless Otherwise Stated**

- 1.) Unpack the shipping box to ensure that all parts have been shipped. Once all the parts are accounted for, you may proceed with the rest of the installation.
- 2.) Install bearing parts, Items 16, 17, 27 and 29 to pivot arm, Item 2.
- 3.) Install Items 5,8,18,25 and 26 to the rocker arm, Item 3, using Item 21. Note that the 2" square block, Item 8, has threaded holes for the installation of 5/8" bolts, Item 21.
- 4.) Install counter weight, Item 1, using Items 28 and 29.
- 5.) Slide Item 9 through the windmill head.
- 6.) Install the rocker arm assembly to the windmill head using Items 6, 18, 23 and 24.
- 7.) Install pitman arm, Item 2, to rotor shaft. Note: The long end goes in first. You may need to clean up the shaft with an emery cloth in order to slide the bearing on (See Figure 7, page 25 for approximate placement of the bearing on the shaft).
- 8.) Install pivot arm to rocker arm using Items 7, 18, 22 and 24.
- 9.) Install one of Item 18 over swivel rod, Item 9. Slide top of swivel rod through Item 8 and install one of Item 18 and both of Item 20.
- 10.) Install fittings, Items 12, 13, 14 and 15 to the base of the swivel rod.
- 11.) Install Item 19 to Item 11 and slide this assembly through riser pipe, Item 10.
- 12.) Install Item 11 to Item 12. Use Item 19 to jam these parts in place.
- 13.) Install Item 10 to the tower clip by using Item 30.
- 14.) You are now ready to raise your tower. Ensure that all components have been accounted for and all hardware is properly torqued. (See Page 9 and 10 for instructions)

- 15.) Once the tower is raised, install Item 4 to the tower base using the hardware provided. Be sure to install all four bolts to the tower base.
- 16.) Install fittings, Items 32 to 34 to Item 4 as shown.
- 17.) Install Item 10 to Item 34 as shown.

* NOTE: You are now ready to install your downhole assembly.

Parts described on page 12 will install a pump above ground level and one riser pipe below ground level. You may extend the pump suction by no more than 15 feet or extend the riser pipe by purchasing more standard length sucker rods and pipe.

The standard pump for your Dutch Delta Jr. windmill is 2 1/2" diameter. For deeper wells a smaller pump will give you startup at lower wind speeds. For more shallow wells you can increase the size to give you a higher volume of water.

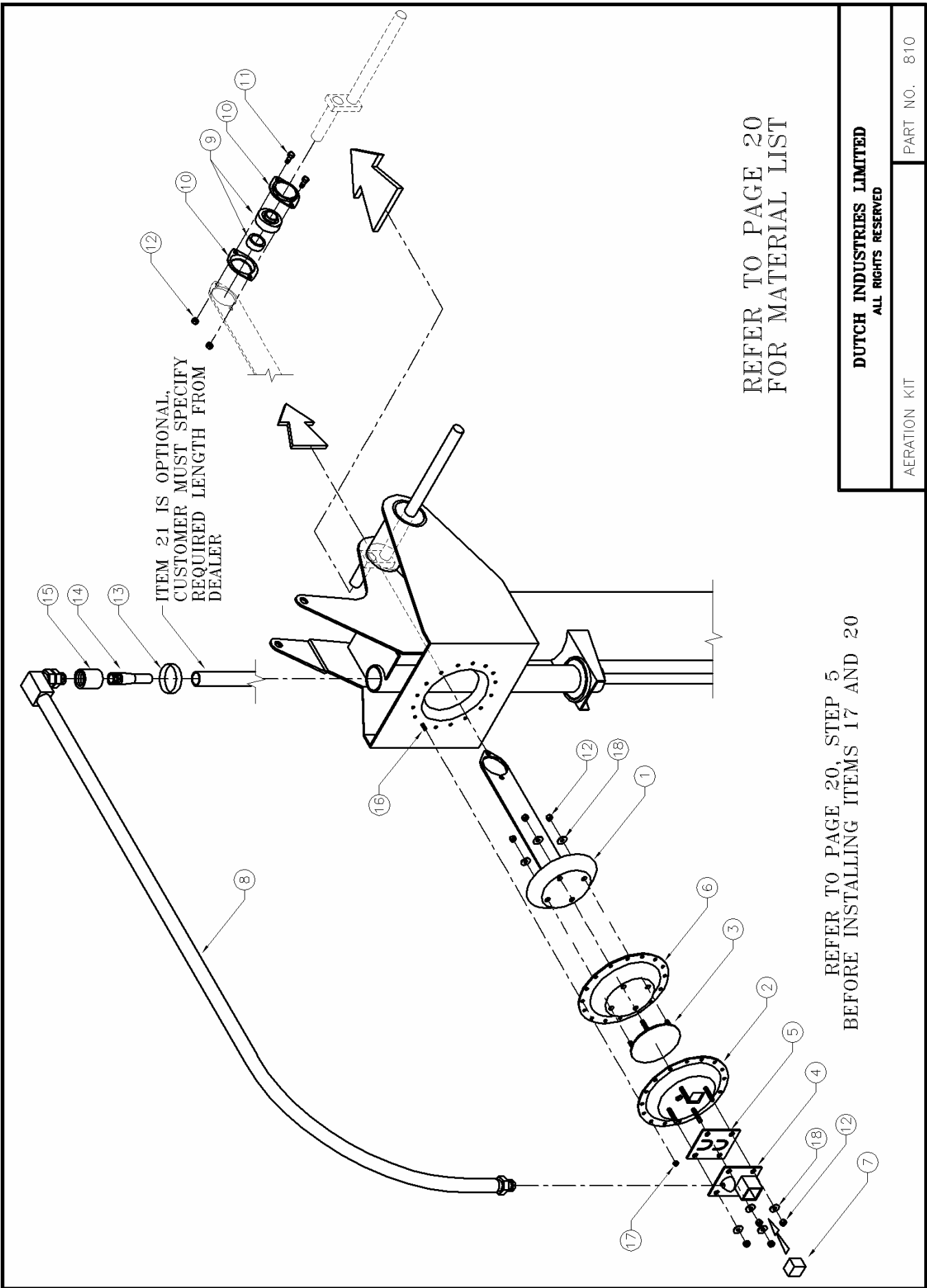
A piston pump can only suck up water approximately fifteen feet, so the pump must be placed no higher than that above the lowest water level you expect to see.

You can run plastic hose to the bottom of your pump, however, you must not exceed the fifteen foot limit of suction which will include some suction pipe resistance. Too small a suction hose or too long a horizontal run, may starve your pump. Ask your dealer for advice. Ensure that this pipe is rated for the weather conditions that it will be submitted to. The most important is for winter conditions. We recommend using a product that will handle -40.

You can discharge as high as the riser pipe top, even though the discharge tee is lower down.

For prevention of freezing in the Spring and the Fall, some customers drill a small hole in the riser pipe 8 feet below ground level, however, if wind speeds are low resulting in low water flows, you may still freeze up.

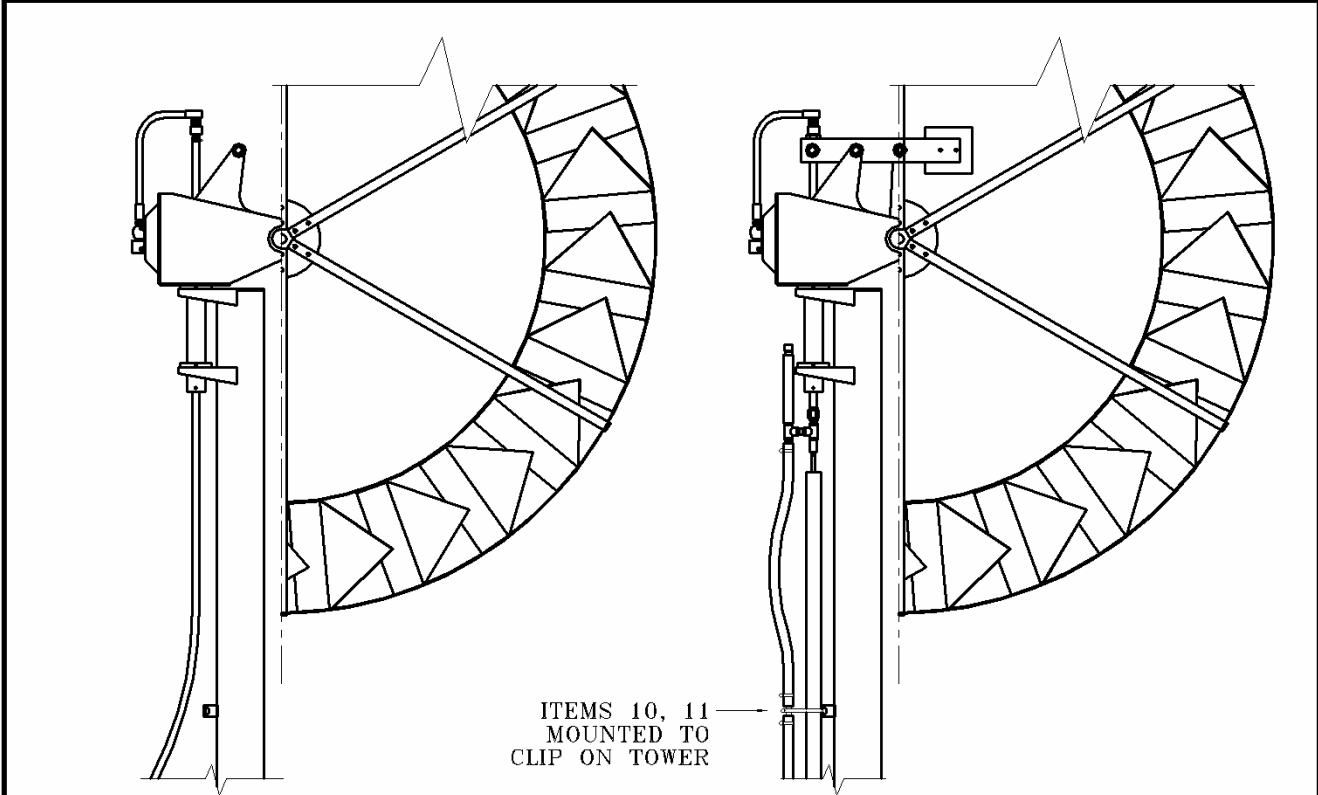
* NOTE: We recommend that the Delta Jr. to not be used in the winter in Canada.



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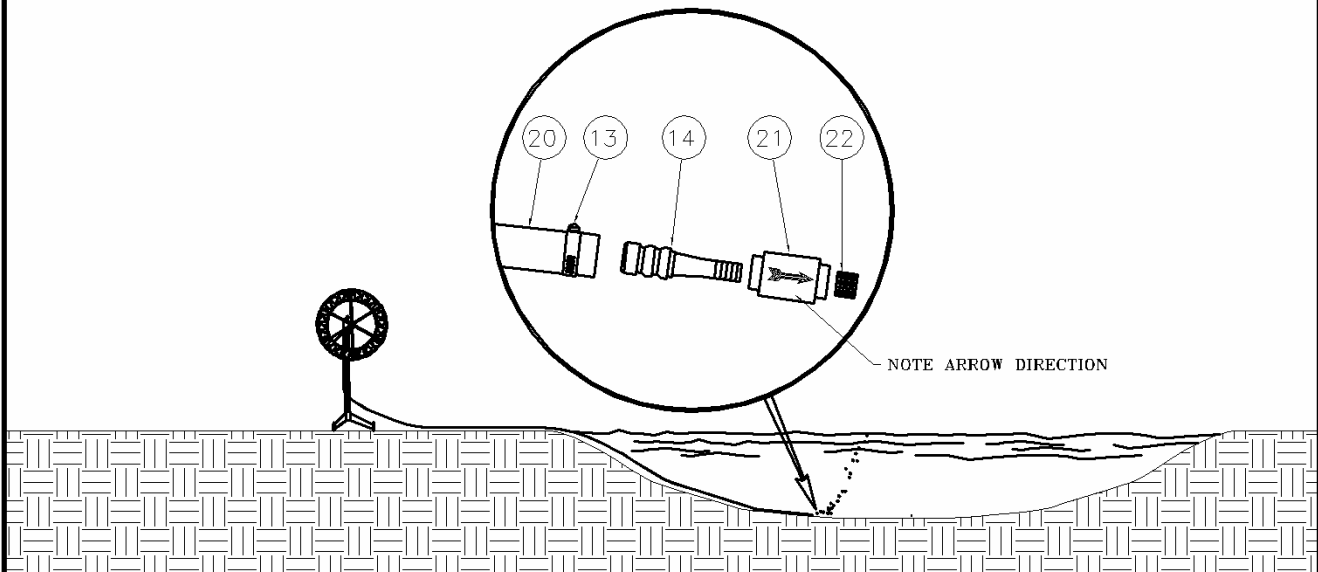
AERATION KIT

PART NO. 810



STAND ALONE
AERATION SET-UP
PART NO. 810
REFER TO PAGE 19

AERATION & WATER PUMP
COMBINATION SET-UP
PART NO. 850
REFER TO PAGE 23



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AERATION EQUIPMENT REQUIREMENTS WITH OPTIONS

PARTS LIST FOR DELTA JR. AIR PUMP KIT

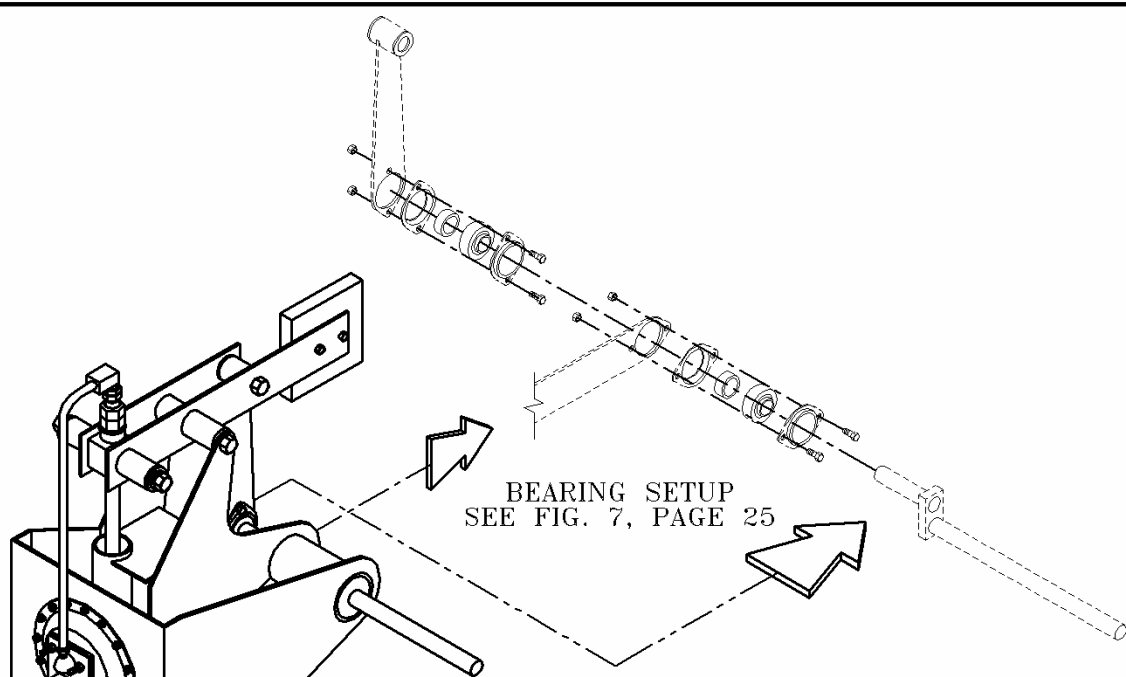
ITEM	PRODUCT CODE	DESCRIPTION	QUANTITY
1	811	BEARING MOUNT ASSEMBLY	1
2	812	AIR PUMP ASSEMBLY	1
3	813	BACKING PLATE ASSEMBLY	1
4	814	VALVE BODY ASSEMBLY	1
5	814.2	VALVE PLATE	1
6	881	AIR PUMP DIAPHRAGM	1
7	789	FOAM BLOCK	1
8	110609	24" AIR HOSE	1
9	EM205DR	BEARING, 1" BORE, C/W COLLAR	1
10	110553	BEARING HOUSING, 2 BOLT - 205	2
11	HHW51634PLC5	5/16" X 3/4" FLANGE BOLT	2
12	EN516PL	5/16" FLANGE	10
13	HC114	1 1/4" HOSE CLAMP	1
14	110612	HOSE BARB, 1/2" PIPE - 1/2" HOSE	1
15	RC1238	REDUCER COUPLING, 1/2" - 3/8"	1
16	HH1434PLC5	1/4" X 3/4" HEX HEAD BOLT	16
17	FN14PL	1/4" FLANGE NUT	16
18	833	WEAR SPACER	1
OPTIONS			
20	110610	1/2" BLACK HOSE	PER FOOT
21	110614	BRASS CHECK VALVE	1
22	110615	1/2" BRONZE BREATHER	1

APPENDIX 2:

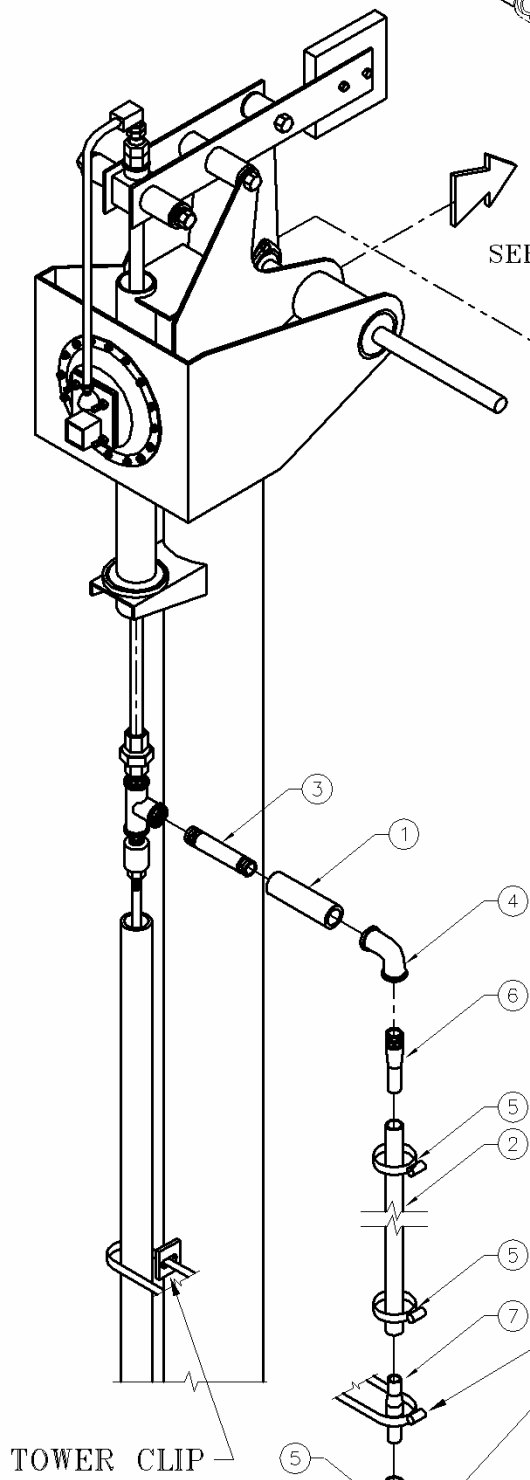
INSTALLATION INSTRUCTIONS FOR AERATION KIT

* Refer to page 18 unless otherwise stated.

- 1.) Unpack the shipping box to ensure that all the parts have been shipped. Once all the parts have been accounted for, you may proceed with the installation.
 - 2.) Assemble Items 1, 3, 6 and 18 together as shown using Items 12 and 19.
 - 3.) Assemble Items 2, 4 and 5 together using Items 12 and 19. Insert foam block, Item 7 into the pocket of Item 4 as shown.
 - 4.) Slide assembly, Item 1, through the windmill head and over the rotor shaft loosely install bearing parts , Items 9, 10, 11, 12 and 19 to the rotor shaft as shown.
 - 5.) Install Item 2 assembly to the windmill head using bolts, Items 16 and 17. Fasteners should be tightly snug only. Ensure that Item 6 is installed between Item 2 assembly and the windmill head. Rotate the shaft so that the diaphragm is fully stretched, then tighten the nuts to specified torque.
 - 6.) Tighten up the hardware on the bearing. Be sure that the connecting rod is true to the shaft and bearing does not twist in housing.
 - 7.) Install Items 14 and 15 to Item 8 as shown.
 - 8.) Install the straight end of Item 8 to Item 4 as shown.
 - 9.) Slide Item 21 through the windmill head as shown and install to Item 14 using, hose clamp, Item 13. Ensure that this pipe is rated for the weather conditions that it will be submitted to. The most important is for winter conditions. We recommend using a product that will handle -40.
- * Note: ½" Poly Pipe, Item 21 is optional and must be ordered separately to suit your requirements from your dealer.
- 10.) You are now ready to raise your tower. Ensure that ll components have been accounted for and all hardware is properly torqued. (See pages 9 and 10 for instruction)



BEARING SETUP
SEE FIG. 7, PAGE 25



TOWER CLIP

REFER TO PAGE 23
FOR MATERIAL LIST

3" HOSE CLAMP FROM WATER PUMP KIT
OPTIONAL, CUSTOMER TO ORDER REQUIRED
LENGTH, REFER TO ITEM 19, PAGE 18

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WATER/AERATION COMBINATION	PART NO. 850

**PARTS LIST FOR
DELTA JR. WATER/AERATION COMBINATION KIT**

ITEM	PRODUCT CODE	DESCRIPTION	QUANTITY
1	819	SWIVEL ROD STOP COVER	1
2	820	AERATION HOSE	1
3	122CN	1/2" NIPPLE, 5" LG	1
4	10000081	1/2" FEMALE 90 degree ell	1
5	HC114	1 1/4" HOSE CLAMP	3
6	110612	HOSE BARB, 1/2" PIPE - 1/2" HOSE	1
7	110613	1/2" HOSE CONNECTOR	1

**APPENDIX 3:
INSTALLATION OF
WATER/AERATION COMBINATION KIT**

*** Refer to page 21 unless otherwise stated**

- 1.) Unpack the shipping box to ensure that all the parts have been shipped. Once all the parts have been accounted for, you may proceed with the installation.
- 2.) Refer to Appendix 2 for installation of the aeration kit. Note that Items 13, 14 and 15 will not be required, see page 18.
- 3.) Refer to Appendix 1 for installation of the water pump kit.
- 4.) Once both installations are complete, attach the 24" air hose to the top of the swivel rod assembly.
- 5.) Install Item 5 to the tee fitting.
- 6.) Install Item 6 to Item 5 as shown.
- 7.) Install Items 1,2 and 4 to Item 6 as shown. Note, Item 2 acts as a protector when the assembly is rotating.
- 8.) Assemble Items 3, 7, 8 and 9 together and install Item 8 to Item 6.
- 9.) Using the 3" hose clamp from the water pump kit, brace Item 9 to the tower clip.
- 10.) Install the 1/2" black hose, using Item 7, to Item 9. Ensure that this pipe is rated for the weather conditions that it will be submitted to. The most important is for winter conditions. We recommend using a product that will handle -40.

* Note, this hose is optional and must be ordered to suit your requirements.
- 11.) You are now ready to raise your tower. Ensure that all parts have been accounted for.

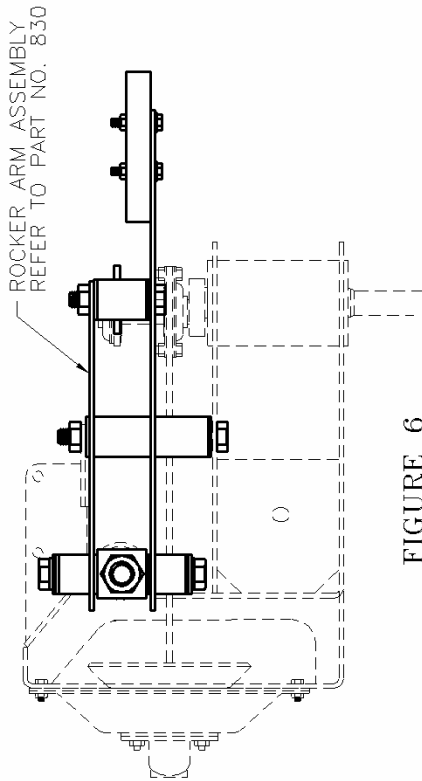


FIGURE 6
TOP VIEW OF HEAD ASSEMBLY
PLACEMENT OF ROCKER ARM ASSEMBLY

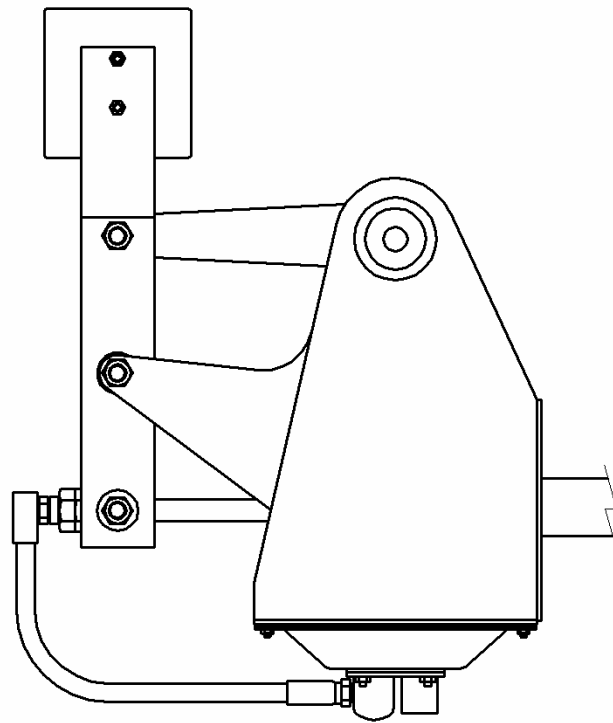


FIGURE 8
SIDE VIEW OF HEAD ASSEMBLY
SHOWN WITH WATER PUMP AND AERATION KIT

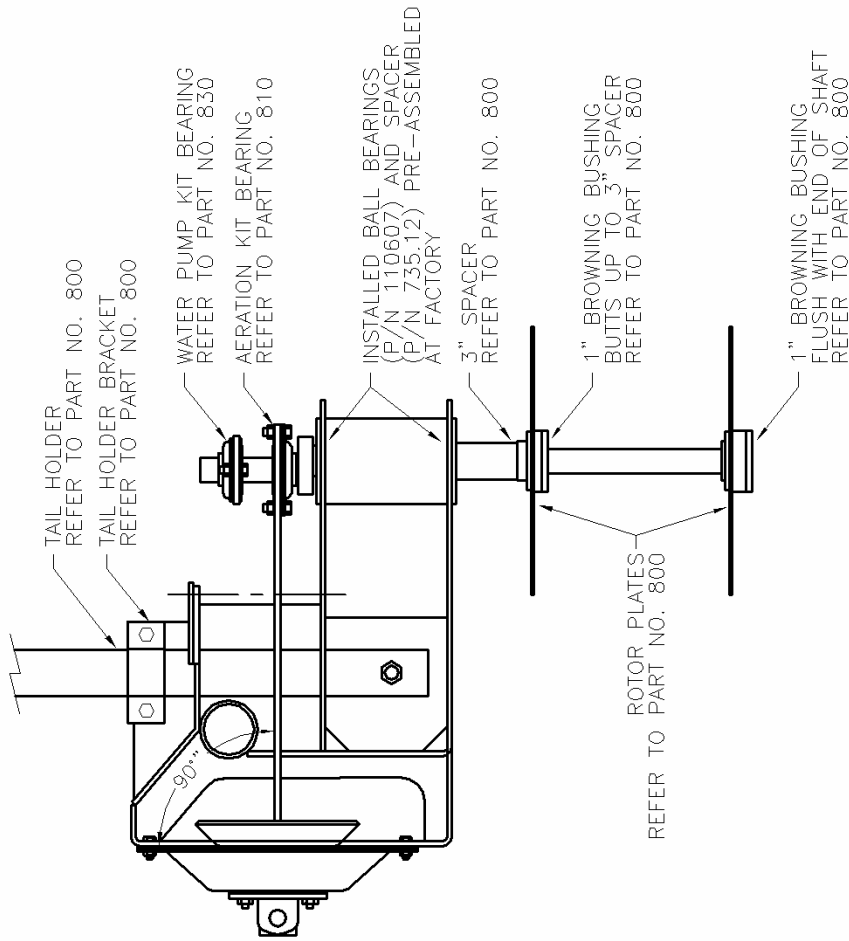


FIGURE 7
TOP VIEW OF HEAD ASSEMBLY
SHOWN WITH AERATION KIT
PLACEMENT OF BEARINGS FOR
COMBINATION SET-UP

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DELTA JR. HEAD ASSEMBLIES

APPENDIX 4: AERATION EQUIPMENT NOTES

Optional parts described on page 19 will ensure that no water or debris will plug the end of the hose. A weight will be required to hold the end near the bottom of the body of water. To sink the entire length of hose an old cable tied to the hose will do.

WARRANTY

DUTCH INDUSTRIES LIMITED WILL WARRANT EACH NEW DELTA JR. ASSEMBLY TO BE FREE FROM FACTORY DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM THE DELIVERY DATE BY THE DEALER TO THE ORIGINAL PURCHASER.

THIS WARRANTY PREVAILS ONLY IF THE UNIT IS SET UP AND OPERATED IN ACCORDANCE WITH FACTORY INSTRUCTIONS AND NORMAL USE AND SERVICE.

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THIS WARRANTY IS VOID ON ANY UNIT WHICH HAS BEEN TAMPERED WITH OR WHICH HAS BEEN SUBJECT TO MISUSE, NEGLIGENCE, OR ACCIDENT.

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