PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Highly Corrosive. Causes skin and eye damage. May be latal if swallowed. Do not get in eyes, on kin or on clothing. Wear goggles when handling, Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZAROS:

This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES Permit. For guidance contact the regional office of EPA.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Mix only with water. Use clean, dry utensits. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction, with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. In case of contamination, or decomposition, do not re-seal container. If possible isolate container in open air or well ventilated area. Flood with large volumes of water, if necessary

CALCIUM HYPOCHLORITE MIXTURE .___

PELLET FORM

These are to be used in pellet dispenser for automatically treating well water in those areas where treaded water supplies are not available.

(AVL CHLORINE 70%)
Pellet Wt. 1 Gram

KEEP OUT OF REACH OF CHILDREN

DANGER

Practical Treatment: (FIRST AID): It swallowed leed bread soaked milk followed by office oil or cooking oil. Call physician immediately.

In on skin: Brush off excess chemical and flush skin with cold water for at feast 15 minutes. If imitation persists, get medical attention.

illin eyes: Flush with cold water for at least 15 minutes. Get medica attention.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH IT'S LABELING.

This product is intended to be used for treating water by placing the pellets at the base of a well to sentitive until consumed. It is not intended to replace sate and properly constructed wells. EFA recommends for human consumption: 2-8 FPM to be determined by using a test kit provided with the pellet dispenser. One pellet normally treats 29 gallions of average well water. These pellets are designed to dissolve in less than 1 hour. Consult the manufacturer's installation and arginisments so the the required chionine residual can be maintained at all innes.

B&BCHLORINATION

P.O. Box 246 - ALBERT CITY, IOWA 50510 (712) 843-5883

ical	Net	Wt.	this	container	~
	Lot	No.			

P.P.A. Reg. No. 53026-1

Est. No. 53026 - [A. - 0]

STORAC

Keep this product dry in a use. Store in cool, dry, w open flame. In case of possible) and flood are dissolve all materials bel 'œuse empty container ('contaminate lood or feer of equipment.

Triple rinse (or equivaler ditioning, or puncture an incineration or, if allowe burning, if burned, stay i

Pesticide wastes are acu excess pesticide, spray Federal Law. If these was according to label instructionmental Control A resentative at the nearest

ACCE

JAN 1

Under " Feder Fungici : , and B os amended for registers under EPA Reg. No. 5 PELL-CHLOR
INSTALLATION MANUAL

United the Federal Insecticida, Funciation, and Redenticide Act, on an incided, for the posticide regimened under EPA Reg. No. 53026-1

MAKING THE WORLD A SAFER TASTE

CONGRATULATIONS, you have just purchased the most accurate chlorinator available for well chlorination.

Chlorination of water supplies is the simplest and most widely accepted method

of treating for:

E. coli bacteria

Iron algae

Disease-causing pathogens

Oxidizing iron/manganese

Oxidizing hydrogen sulphur

Other odor-causing algae

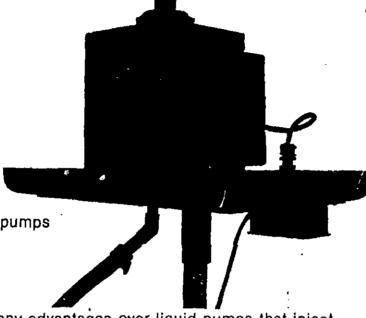
Other benefits include:

1. Cleaner livestock waterers.

2. Less chance of spreading disease through waterers to livestock and poultry.

3. Reduced iron algae build-up on pumps

and waterlines.



Dry pellet chlorine feedage has many advantages over liquid pumps that inject chlorine into the pressure system. These include:

- 1. Treating the water supply at the problem source.
- 2. Longer retention time for better bacteria kill or oxidation of problem ions.
- 3. Ease in chlorine handling.
- 4. Less frequent refilling.

BEFORE INSTALLING PELL-CHLOR

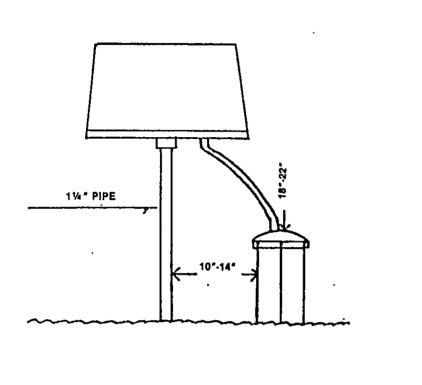
It is up to the dealer or customer to make the following basic checks:

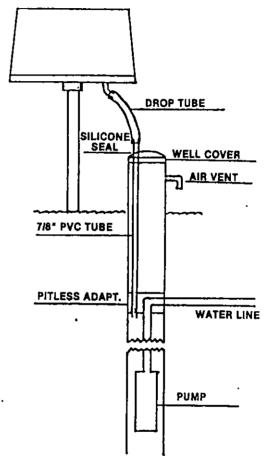
1. Pellet Dissolvement: Your PELL-CHLOR is manufactured to feed a 1 gram pellet of calcium hypochlorite directly into the well. These pellets have 30% inert ingredients to hold the chtoring in solid-form. While these inerts are soluble in over 99% of water supplies, a few wells have water chemistry that leave the inerts undissolved. In these wells a buildup of solids can occur. TO TEST FOR PELLET SOLUBILITY: Place one pellet in a gallon of water drawn from the well. Let stand for two to four hours and then shake container. The pellet should fall apart. If the pellet remains in solid form DO NOT install PELL-CHLOR.

2. Check voltage of pump before installing, PELL-CHLOR is available in both 115 volt and 230 volt. Install correct voltage model only.

3. Check that pellets can fall freely into the well water. If there are obstructions, these must be eliminated.

KRUDICO EXTENDS NO LIABILITY TO DAMAGE CAUSED BY IMPROPER APPLICATION. Be sure—check first.





INSTALLATION INSTRUCTIONS

- 1. Mounting Procedure:
 - a. Post Mount
 - The simplest installation is to drive a 1¼" steel pipe four (4) feet into the ground at a distance of 10"-14" from the well. Height of the steel pipe should be 18"-22" above the well cover.
 - CAUTION: Be sure no underground electrical wires or water lines are in the area where the pipe is to be driven.
 - b. Floor Stand
 - If the well protrudes through a hard surface, a floor stand must be mounted at a distance of 10"-14" from the well. Sectively faster a rigid steel plate to the floor surface with a 1¼" steel coupling welded to the center. Screw a 1¼" steel pipe into steel coupling. Steel pipe must reach 18"-22" above well cover.
 - Slide the mounting plate bracket of the chlorinator over the 1¼ " pipe and securely fasten to pipe by tightening the locking bolts. If possible, position chlorinator so feed tube hole is closest to well and transparent view area of the chlorinator is facing north (see p. 9 on pellet handling and storage).

2. Installing Feed Tube.

- a. Solvent weld the ¾" PVC tubes and 45° elbow into the ¾" feed hole fitting of the chlorinator.
- b. Turn off all electrical power to the well.
- c. Carefully remove well cover. Be sure no part of the cover or cover connectors can fall into the well.
- d. Check the distance from the well cover to any obstruction inside the well (i.e., pitless adapter, other plumbing, or unsecured wiring). Make certain that if pump torque snubbers are used they are located below the water level. Cut a %" O.D. section of thinwall PVC tubing equal to the total distance of 4" above the well cover down through pitless adapter or other obstruction.
- e. Insert %" PVC tube through pitless adapter.
- f. Drill a %" hole into the well cover.
- g. Insert PVC tube through cover and refasten cover to well.
- h. Using the stainless steel clamps provided, tightly secure pellet tube to chlorinator vinyl drop pipe and "PVC tubing.
- i. Seal casing around PVC pipe with silicon sealant or compression fitting.

NOTE: Well Venting—As a pump draws water from a well, the water level in the well is lowered creating a partial vacuum. Air may now enter the well from poor seals, electrical, or pipe discharge points. When the pump stops the water level in the well raises, creating a pressure head expelling the excess air out of any convenient opening. If this "moisture rich" air is allowed to escape through the pellet feed tube and into the chlorinator, the chlorine pellets will attract this moisture. The pellets will then expand and/or stick to each other, preventing proper feedage.

If moisture droplets accumulate in the PVC tubing during freezing weather or frost, blockage may occur preventing the pellets from entering the well.

To prevent moisture from entering the tubing or chlorinator, proper venting must be installed.

One method is to drill another %" hole into the well cover or casing. Install a short PVC pipe with 90° elbow(s) so final PVC opening faces the ground. This is to prevent objects from entering into the well. Insert a plastic screen into the final elbow. Seal casing around PVC pipe with silicon sealant.

CAUTION: When drilling into the well cover or casing, do not damage gaskets, seals, or electrical wiring.

3. Electrical Installation.

The PELL-CHLOR chlorina or is designed to operate only when your well pump is activated. Chlorine pellets will be induced into the well in direct proportion to the gallons of water pumped. Your PELL-CHLOR chlorinator is to be electrically installed by a qualified electrician.

CAUTION: THREE PHASE SUBMERSIBLE PUMPS HAVE A "WILD LEG" (HIGH VOLTAGE CAPACITOR WIRE) AND TWO (2) LINE WIRES. CONNECTING THE PELL-CHLOR TO THE WILD LEG WILL BURN UP THE MOTOR AND MAY CAUSE DAMAGE TO THE SUBMERSIBLE PUMP. TEST VOLTAGE BEFORE WIRING.

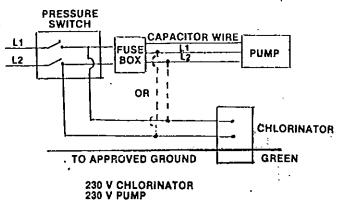
NOTE: Do not ground to water pipe. Use only grounding approved by the National Electrical Code.

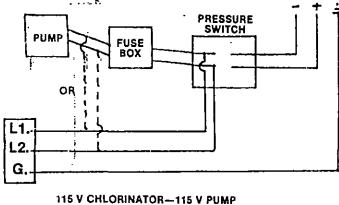
- A. Turn off all electrical power to the pressure switch and pump before wiring. All applicable electrical codes must be adhered to. Proper grounding is mandatory. Connect only to properly fused circuits.
 - B. Recheck voltage. Install only proper PELL-CHLOR unit (115 volt or 230 volt).

3

Most installations were the chlorinator into the pressure switch or, if permitted by state electrical codes, directly into the wiring between the pressure switch and well pump.

PELL-CHLOR WIRING DIAGRAM





PRESSURE

SWITCH

GROUND

115 V CHLORINATOR 230 V PUMP

FUSE

BOX

PUMP

CHLORINATOR

C. Use only 14 gauge or larger wire. Use only approved splicing connections in possible damp or wet conditions.

D. Enclose all above ground wire in approved ½" flexible conduit.

E. When electrical connections are complete, turn power on for chlorinator check out.

4. Operation Check Out.

a. Activate well pump by opening water hydrant to lower pressure in pressure tank.

b. Set PELL-CHLOR timer to 100. Timer will now activate PELL-CHLOR motor 30 seconds out of each 30 seconds of pump running.

check that feed drum is turning.

ે d. Turn timer dial to zero.





e. Pour chlorine pellets into storage compartment. Ten pounds maximum.

SETTING FEED RATE

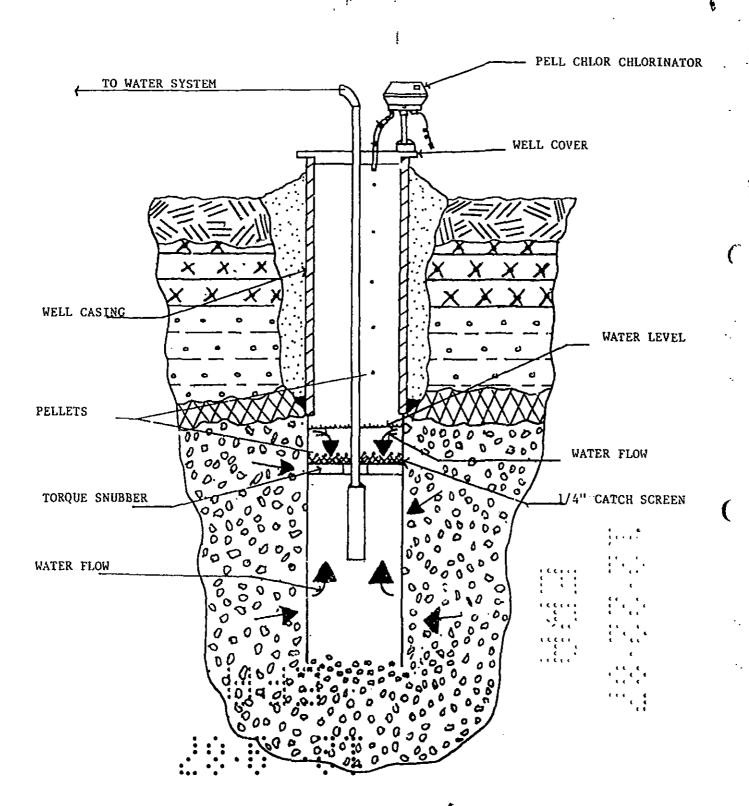
NOTE: The required chlorine feedage will depend on three factors:

(a) The gallons per minute being pumped;

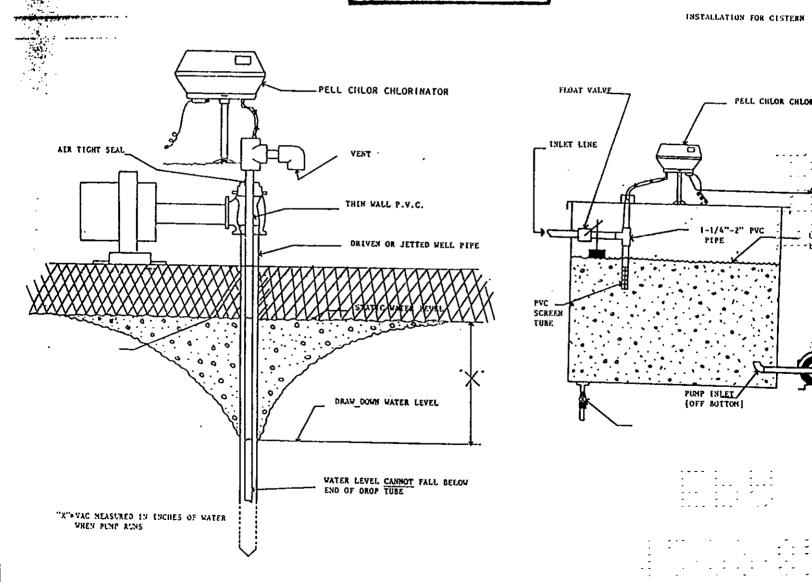
(b) The "chlorine demand" of the water (see Shart);

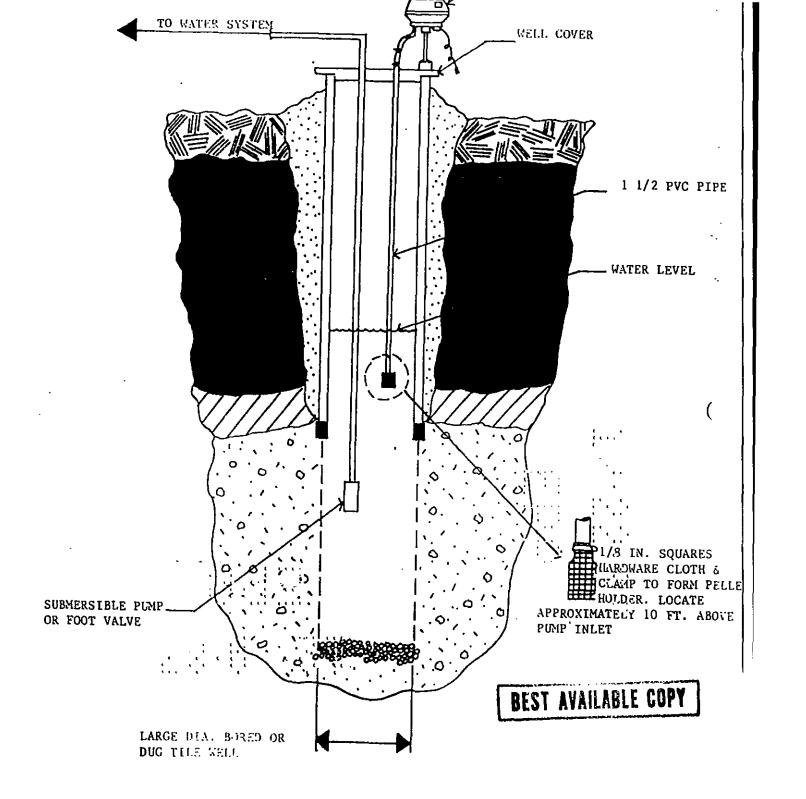
(c) The "residual required" (amount of chlorine remaining after oxidation of bacteria, algae, iron, sulphur, etc.). Recommended residual is .3 PPM to 1.0 PPM for human consumption; animals: 1-3 PPM.

BRASS ELBOW WITH 7/64 DRILL HOLE BEST AVAILABLE COPY 3 FT. CHLORINE PELLETS 4" or 5" WELL SUBMERSIBLE PUMP



BEST AVAILABLE COPY





CHLORINE DEMAND CHART



Algae-Bacterial Iron/manganese Sulphur per gal H₂O per PPM per PPM 1-3 PPM Chlorine .6 PPM Chlorine 3.0 PPM Chlorine

Each pellet will treat approximately 26 gallons of water at a 3 PPM chlorine feedage.

The PELL-CHLOR unit will feed 1 pellet every 15 seconds at a 100% setting down to 1 pellet every 18 minutes at a 1% feedage.

To estimate required feed rate multiply gallon capacity of pump by estimated demand plus residual and set accordingly.

EXAMPLE:

Water Test

5. PPM Iron

Iron Algae Present

1. PPM residual needed

Pump Capacity

10 GPM

Chlorine Demand 5 PPM Iron \times .6 PPM Chlorine = 3.

Algae 1 PPM Sulphur × 3 1. 3.

1 PPM Sulphur x 3 Residual needed

1.

Chlorine Total Per Gallon

8 PPM

Pumping Capacity

10 GPM

Chlorine Demand With Residual x

8. PPM

Total Demand Per Minute

80 PPM per minute + 26 Gallon per pellet

Approximately

3 Pellets per minute

CHLORING

In this example the PELL-CHLOR should be set to drop one pellet on the average of every 20-21 seconds of well pump operation.

If after several hours of normal water usage!the chlorine content is too low or too high, make minor adjustments to timer until proper feed rate is obtained. Recheck daily to maintain correct feedage and residual.

CHLORINE STORAGE AND HANDLING

- *Use only EPA registered pellets; % in diameter and 1 gram in weight.
- *Chlorine is a strong oxident. Avoid contact with eyes, skin and clothing. May cause eye damage and produce chemical burns.
- *Keep out of reach of children. Harmful or fatal if swallowed.

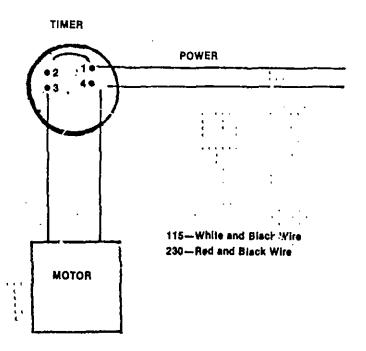
*ANTIDOTES: External—wash with water at least 15 minutes. For eyes, get prompt medical attention. Internal—drink large quantities of milk, water, or egg whites. CALL PHYSICIAN IMMEDIATELY.

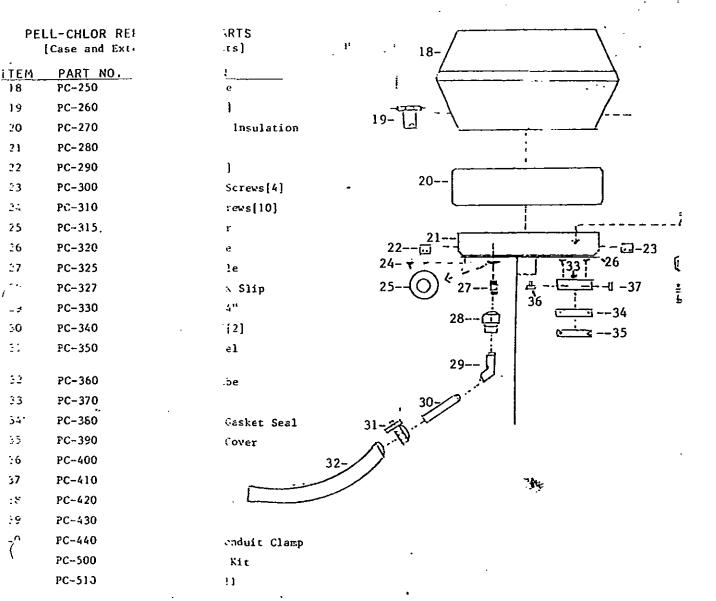
*Keep out of reach of children. Harmful or fatal if swallowed.

*Always keep pellets clean and free from any dirt, grease, or other foreign materials. Fire or explosion may result.

*Wipe any pellets or powder residue off of PELL-CHLOR after filling. Chlorine left between the PELL-CHLOR and outer case will cause corrosion damage to all metal parts (i.e., bolts, timer, motor and wiring).

- *Store pellets in cool, dry place. Keep pellets out of sunlight. Ultraviolet rays change the chemical composition rapidly and destroy the chlorine content.
- *Pellets may lose strength after prolonged storage. Purchase no more than a 9-12 month supply.
- *Keep pellet container tightly closed. Always rinse empty container with water, then dispose of properly.
- *Always use a clean container or scoop to handle pellets. DO NOT use bare hands, or cloth gloves. Never inhale fumes when handling chlorine pellets.



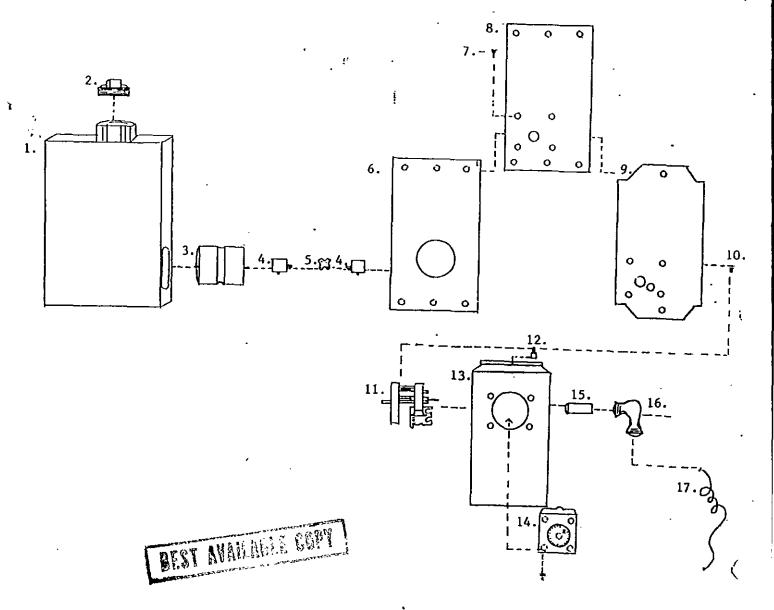


PELL-CHLOR LIMITED WARRANTY

:. of Lake View, Iowa warranties this Pell-Chlor .nator to be free of defects in workmanship and Day P. period of eighteen [18] months ,from date of perfo: manuf . further warrants that this Pell-Chlor Dry or will deliver one [1] "gram [3/8" x 5/16"] Palle: t proportion to dealer or customer "setting of pelle: ing installation and wiring ere performed as per feed : instr rranty, expressed or implied, will be honored by Krudi







PELL-CHLOR REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION .		
1.	PC-110	Main Body -	10.	PC-180	1/4"x3/4" Nylon Bolts[4]		
2.	PC-120	Fill Cap	11.	*PC-191	Motor 1 RPM[Standard]		
3.	PC-131	Feed Drum-1 Cell	•	*PC-192	Motor 2 RPM		
	PC-132	Feed Drum-2 Cell[Standard]	12.	PC-215	1/4x20x3/4 Nylon Bolts		
	PC-134	Feed Drum-4 Cell	13.	PC-210	Motor-Timer Case		
4.	PC-140	5/16 Coupling[nickle plated]	14.	PC-220	Timer		
5.	PC-150	Spider .	15.	PC-235	Grounded Bushing		
6.	PC~145	Neoprene gasket	16.	PC-240	Wire Connector w/cap & seal		
7.	PC-160	Motor Screws[4] 6-6 Nylon	17.	PC-230	Wire		
8.	PC-170	Motor Plate	*Specify 115 volt or 230 volt				
9.	PC-175	Neoprene Gasket					
-							