

Taylor PVA Pump



Model - #128K

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Limited Warranty

(This supersedes all previous warranties)

James L. Taylor Manufacturing guarantees all products of its manufacture to be free of defects in workmanship or material when properly installed, serviced and maintained under normal conditions. James L. Taylor Manufacturing's obligation under this warranty is limited to repairing or replacing any part or parts thereof which shall within one (1) year after shipment to the original user, be returned to its factory, transportation charges prepaid, and which James L. Taylor Manufacturing's examination shall disclose to be defective.

James L. Taylor Manufacturing assumes no liability for labor charges incidental to the adjustment, service, repairing, or removal or replacement of parts or other losses, or for expense of repairs made outside of its factory, except when made pursuant to **James L. Taylor Manufacturing's** PRIOR written consent.

James L. Taylor Manufacturing does not guarantee equipment furnished by us, but manufactured by others, such as belts, electric motors, starters, controls or other electrical equipment or accessories, as they are guaranteed separately by their respective manufacturers. James L. Taylor Manufacturing assumes no liability whatever for any of these parts claimed to be defective or for damages or delays caused by defects beyond making such repair or furnishing duplicate parts within the manufacturer's warranty, nor shall we be liable for any defective material repaired or replaced without our consent.

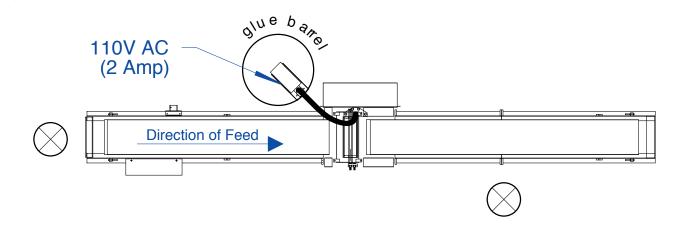
The foregoing shall constitute the fulfillment of all of our obligations under this warranty and there are no other warranties or guarantees, expressed or implied except as stated herein.



D#ALL-2-R2 **2**

Introduction: PVA Pump

Thank you for choosing the Taylor PVA pump. This machine should provide you with years of reliable service.



RULES FOR SAFE OPERATION

D#ALL-3-R2 **4**

RULES FOR SAFE OPERATION

Types of Warnings

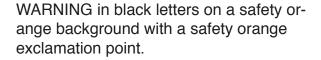
This is the safety alert symbol. It is used to alert you to potential injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury.



DANGER in white letters on a safety red background with a safety red exclamation point.

This indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



This indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION in black letters on a safety yellow background with a safety yellow exclamation point.

This indicates a potentially hazardous situation which, if not avoided, COULD result in minor or moderate injury.



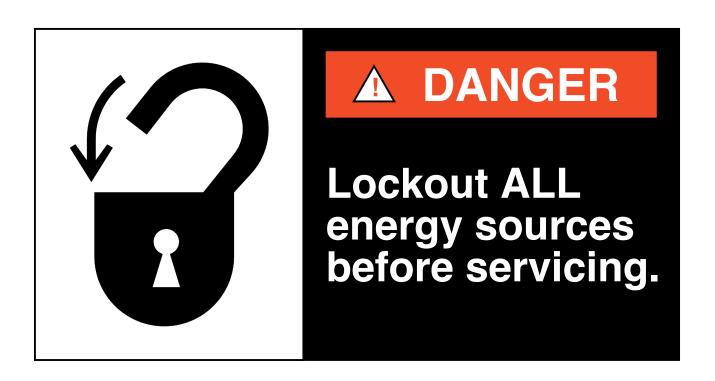




D#ALL-3-R2 5

General Safety Rules

- · Follow lockout procedure before servicing.
- Read and understand manual before operating machine.
- Wear eye protection.
- See the plant supervisor to determine what protective equipment each job requires.
- · Follow electrical and fire codes.
- Do not wear loose clothing, jewelry or long hair around operating equipment.
- Keep guards in protective position when machine is operating.
- Keep clear of belts chains and moving parts.



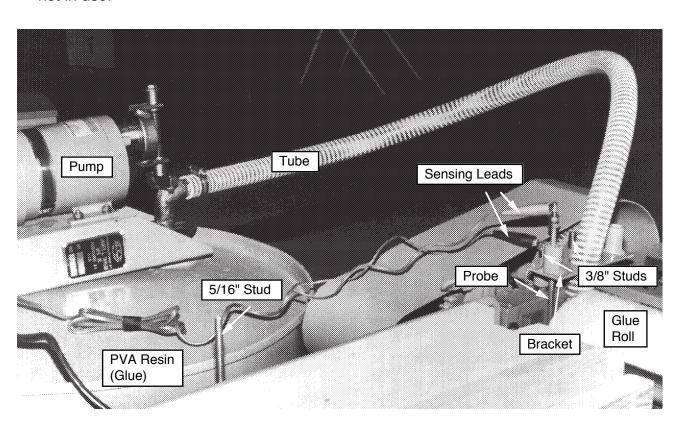
D#ALL-3-R2

Installation: PVA Pump

Installing the PVA Glue Pump:

- Place a 55-gallon drum of PVA or aliphatic resin glue (white or carpenter's glue) close to the Glue Applicator, as shown in the photo below.
- 2. Remove the 2" bung from the top of the drum. Lift the PVA Glue Pump and guide the lift tube into the drum.
- 3. Insert the two 3/8" studs with nuts into the 3/8" tapped holes adjacent to the glue pan. Tighten the nuts. Slip the bracket over the two studs as shown in the photo below.
- 4. Insert the 5/16" stud into a 3/8" tapped hole (as shown) to hold the bracket when not in use.

- 5. Attach one end of the tube to the fitting on the Pump. Insert the other end into the bracket on the Glue Applicator.
- 6. Insert the probe, with the short length of rubber tubing acting as an insulator, into the bracket. Slide the tubing up or down the probe to adjust its height. The bottom of the probe will determine the level of glue in the glue pan.
- 7. Attach one of the sensing leads to the probe. Attach the other lead to one of the 3/8" studs installed in step #3. Plug the free end of the sensing lead cord into the receptacle on the back of the Pump.
- Plug the PVA Glue Pump's power cord into a properly grounded and fused 110 volt, 1 phase electrical outlet.
- 9. Turn the Pump on with its toggle switch and fill the glue pan. Adjust the probe if necessary.



Operation: PVA Pump

At the end of each day:

- 1. Turn off the PVA Glue Pump.
- Remove the glue supply tube from the bracket on the Glue Applicator and plug the end of the tube with the plug supplied. Plugging the tube will prevent the glue from draining out and drying out in the pump and tubes.
- 3. Remove the glue level sensing probe and clean the end that contacted the glue.

At the beginning of each day:

- 1. Remove the plug from the end of the glue supply tube and insert the tube into the bracket on the Glue Applicator.
- 2. Insert the glue level sensing probe into the bracket on the Glue Applicator,
- 3. Start the Pump. The sensing circuit will automatically turn the Pump off and on as the probe contacts and breaks contact with the glue. Adjustment of the glue level in the pan may be made by sliding the rubber tubing up or down the probe, thus changing the height of the probe.

TROUBLESHOOTING

Troubleshooting: PVA Pump

Replacement parts may be identified and ordered from the parts sheets at the back of this manual.

Pump Will Not Run:

- 1. Check that the Pump is plugged in and that there is 110v, single phase power at the Pump.
- 2. Unplug the sensing lead cord from the Pump. If the Pump then runs, there is probably a short in the sensing circuit. Check for a short in the sensing leads.
- Remove the electrical panel from the Pump and plug the motor directly into an extension cord. If the Pump then runs, there may be a faulty switch in the sensing unit.

Pump Runs but Does Not Deliver Glue:

1. The valves in the Pump are probably obstructed. Clean them by flushing the Pump's lift tube with a water hose. If this does not fix the problem, remove, clean, and replace the valves.

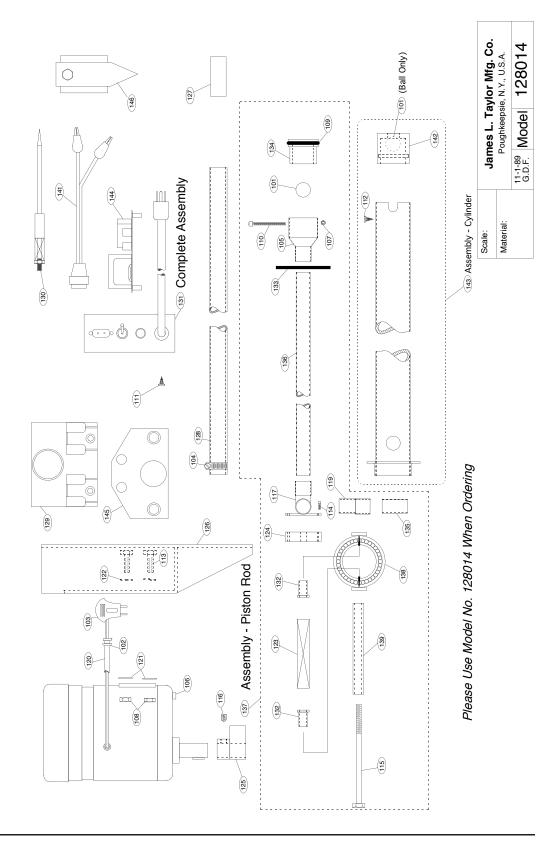
Pump Runs Continuously:

- Check that there is good electrical contact between the sensing lead and the probe and between the other sensing lead and the glue pan. A build up of glue can sometimes inhibit good contact.
- Unplug the sensing lead cord from the Pump. Wet a fingertip and bridge the terminal strip on the electrical panel. The motor should turn off and on as contact is made and broken. If not, the sensing unit may be faulty.

Maintenance: PVA Pump

Other than routine cleaning of the pump and glue level sensing probe, no maintenance is required for the PVA Glue Pump.

PARTS & SERVICE



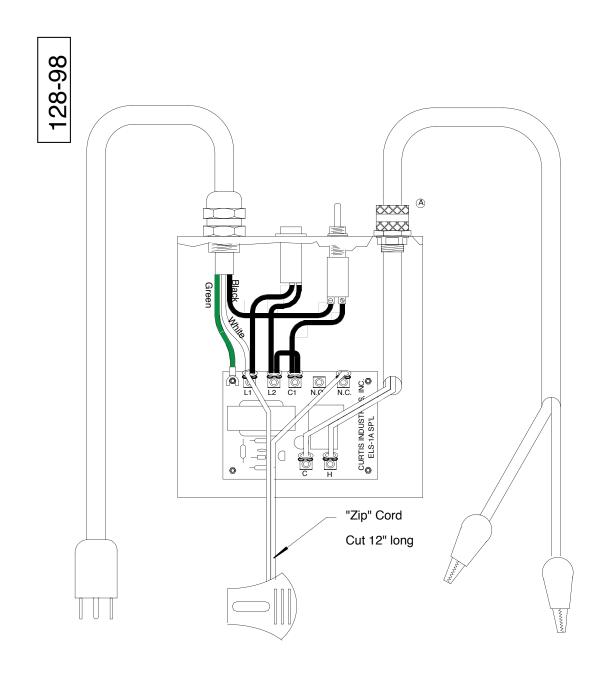
PARTS & SERVICE

PARTS & SERVICE

Model 128014

PVA Glue Pump Parts List

Key#	Part Name	Description	Quantity
101.	BALLSS14	7/8" Dia Stainless Steel Ball	2
102.	BUSHS.1	Bushing - Strain Relief 6N3-4	1
103.	CLAQU.20	GE-1710 Male Quick Clamp	1
104.	CLAHO.20	Clamp - 5220	1
105.	COUCO2412	1 1/2" x 3/4" Copper Reduce Coupling	1
106.	MOTGR.127	3M127 Dayton Gear Motor	1
	MOTGR.128	Gearmotor - 3M128,30 RPM, 115 Volt	1
107.	NUTHX.0632SS	Nut - 6-32 Hex Stainless	1
108.	NUTHX04.20	1/4-20 Hex Nut	4
109.	RINGO622729	#622729 "O" Ring	1
110.	SCRRH.063232	Screw - 6-32 x 2 R.H. Stainless	1
111.	SCRPH.1008A	Screw - #10 x 1/2 Type A Self Tapping	2
112.	SCRPH.1006AS	Screw - #10 x 3/8 Type A Stainless	1
113.	SCRHH0412	1/4" x 3/4" Hex Head Cap Screw	6
114.	SCRSH.103210	Screw - 10-32 x 5/8" Socket Head Cap	2
115.	SCRHH0580	5/16" x 5" Hex Head Cap Screw	1
116.	SCRSS0505	5/16" x 5/16" Socket Set Screw	1
117.	128-116	3/4" Copper Drop Ear Elbow	1
117.	SCRSH0408	Screw 1/4 x 3/8 Socket Head Cap	2
119.	COUCO12	Coupling 3/4" Sweat Copper	1
120.	TUBERU06.1	Tubing - 1/4 Rubber	Specify Length
120.	WASHFL04	Washer - 1/4" Flat	Specify Lefigin 4
121. 122.		Washer - 1/4" Lock	
	WASHLO04		4
123.	SPG12.094.2	Spring - 3/4 x 4 x .094 Compression	1
124.	128-84	Bar - Elbow Mounting	1
125.	128-89	Cam	1
126.	128-7	Assembly - Base	1
127.	128-32	Plug - Glue Feed	1
128.	128-62-Length	Assembly - Glue Feed Tube (State Length)	1
129.	128-101	Assembly - Bracket - Glue Feed Tube	1
130.	128-12	Probe - Sensing	1
131.	128-98	Assembly Sensing Unit	1
132.	128-85	Bushing	2
133.	128-70	Seal - Cylinder	1
134.	128-51	Piston	1
135.	128-71	Tube - Output	1
136.	128-83	Tube - Piston Rod	1
137.	128-88	Assembly - Pistion Rod	1
138.	128-86	Assembly - Bearing	1
139.	128-87	Tube - Spring Guide	1
140.			
141.	128-33	Cord - Sensing	1
142.	128-45	Body - Foot Valve	1
143.	128-57	Assembly - Cylinder	1
144.	CONTRELS.1AR	ELS W/Relay 1 Level Liquid Control	1
145.	128-35	Assembly - Bracket - Glue Feed Tube	1
146.	128-38	Probe Sensing	1
147.	128-56	Assembly - Valve	1



Sensing Unit - Assembly

Scale: None	James L. Ta	aylor Mfg. Co.
Material:	Poughkeeps	sie, N.Y., U.S.A.
See Picklist	9-11-90 G.D.F.	128-98

(A) Added 128-138 Sensing Cord. 1/17/00 JJC

Dayton Product Specific Information Manual 3M125B, 3M126B, 3M127B and 3M128B

Please provide the following information:
-Model number
-Serial number (if any)
-Part description and number as shown in parts list

Address parts correspondence to: Grainger Parts P.O. Box 3074 1557 Shermer Road Northbrook, II 50065-3074 U.S.A.

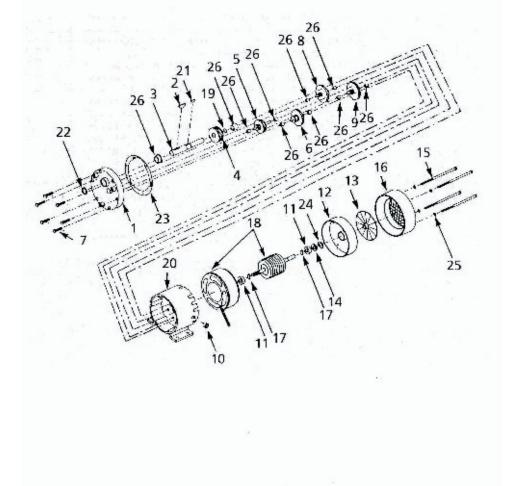


Figure 2 - Repair Parts Illustration

Repair Parts List

Ref. No.	Description	3M125B	Part Numbers 3M126B	For Models: 3M127B	3M128B	Quantity
1	Cover Assembly	D00615-0010	D00615-0011	D00615-0011	D00615-0012	1
2	Woodruff Key #605	P00464-0001	P00464-0001	P00464-0001	P00464-0001	1
3	Output Shaft	J00625-0037	J00625-0037	J00625-0037	J00625-0037	1
4	Output Gear	H00555-0001	H00555-0001	H00555-0001	H00555-0001	1
5	Inter. Low Speed Gear	A00559-0002	A00563-0002	A00553-0002	N/A	1
6	Inter. Gear Assy.	A00556-0002	A00560-0002	A00718-0001	A00553-0001	1
7	Screws #10-24	R12022-0011	R12022-0011	R12022-0011	R12022-0011	6
8	Inter. High Speed Gear	A00547-0001	N/A	N/A	N/A	1
9	High Speed Gear Assy.	A04042-0001	A04042-0002	A04043-0001	A04045-0001	1
	Optional Steel Assy.	A04042-0004	A04042-0003	A04043-0004	A04045-0002	1
10	Snap Bushing	P01206-0003	P01206-0003	P01206-0003	P01206-0003	1
11	Ball Bearing	L00647=0002	L00647-0002	L00647-0002	L00647-0002	2
12	Endbell	D13065-0001	D13065-0001	D13065-0001	D13065-0001	1
13	Fan	E13286-0004	E13286-0003	E13286-0003	E13286-0004	1
14	Spring	K02208-0003	K02208-0003	K02208-0003	K02208-0003	1
15	Screws #10	R00F10S408Z	R00F10S408Z	R00F10S408Z	R00F10S408Z	4
16	Fan Shroud	G03150-0002	G03150-0002	G03150-0002	G03150-0002	1
17	Retaining Ring	R02074-0001	R02074-0001	R02074-0001	R02074-0001	2
18	Rotor-Stator Assembly	V00212APAJ	V00212ARAJ	V00212ARAJ	V00212ASAJ	1
19	Retaining Ring	R00627-0001 -	R00627-0001	R00627-0001	R00627-0001	1
20	Gear Case Assembly	D00791-0024	D00791-0025	D00791-0025	D00791-0027	1
21	Woodruff Key #404	P00423-0001	P00423-0001	P00423-0001	P00423-00011	
22	Grease Seal	P01694-0026	P01694-0026	P01694-0026	P01694-0026	1
23	Gear Case Gasket	P11141-0001	P11141-0001	P11141-0001	P11141-0001	1
24	Washer	K04656-0001	K04656-0001	K04656-0001	K04656-0001	6
25	Lockwasher	R00655-0001	R00655-0001	R00655-0001	R00655-0001	4
26	Bearing Kit	D12522-0004	D12522-0009	D12522-0009	D12522-0010	1
Δ	Grease Tube (6 oz.)	E13418-0001	E13418-0001	E13418-0001	E13418-0001	1
A) No	ot Shown.					

Insulate all connections carefully to prevent grounding or short circuits Reinstall all conduit and terminal box covers. Do not force connections

into the conduit box.

matches the capacitor rating on gearmotor nameplate. Use proper capacitor ratings (MFD and Voltage). **Always discharge capacitors when** On permanent split capacitor gearmotors, make sure the capacitor rating

H S - L G N H

MECHANICAL SAFETY

Initial Inspection and Handling

After opening carton, look for concealed damage. If concealed damage

■ Check the nameplate to verify that data conforms to specifications of

gearmotor ordered.

Storage

is found, immediately file claim with carrier.

S H

Gearmotor should be stored in a clean, dry location.

General Safety Information

A DANGER

Failure to comply with instructions could result in personal injury

Protect yourself and others by observing all safety information.

ble, reassemble, operate or maintain the product described.

and I or property damage! Retain instructions for future references.

W Z U J

Remove the output shaft key before running the gearmotor without a

Guard all moving parts.

Do not exceed gearmotor's overhung load and/or axial load ratings. Do not permit the load to exceed the gearmotor torque rating.

When making repairs only use Dayton authorized replacement parts. Do not modify gearmotor unless otherwise specified by instructions.

THERMAL PROTECTION

Use thermally protected gearmotors or a motor starter incorporating thermal overload protection wherever required by safety regulations; including (NEC), local codes or Underwriters Laboratory (UL) Standards; or where overloading, jamming or other abnormal operating conditions may occur. Under low temperature conditions, manual reset protectors may reset automatically, causing gearmotor to start unexpectedly.

nstallation

for installation in remote, unattended applications. Overload or locked shaft condition could result in winding burnout andlor fire and

Gearmotors not equipped with a thermal protector are not suitable

Load movement may occur in the event of a gear failure. Gear failures

separate brake or other locking device should be used. Do not

depend on gear friction to hold the load.

When an installation involves a holding or over-

A CAUTION

electrical shock.

put torque specified. Over time gear wear could affect the strength of

the gears leading to gear failure.

can be a result of loads that produce shock or exceed the rated out

where unexpected gearmotor starting could be hazardous to person

Installation, maintenance, troubleshooting, or service to be per-

formed by only qualified personnel.

nel or equipment.

ELECTRICAL SAFETY

Do not use automatic reset devices (such as an auto reset protector)

Do not install or operate this gearmotor in an

Temperature around the gearmotor should not exceed 104°F(40°C). Minimum If installation is outdoors, make certain that the gearmotor is protected from Temperatures less than 0°F (-18°C) may result in reduced output or no-start. Totally Enclosed Gearmotors - Harsher environments where damp and dirty conditions may exist. Totally enclosed gearmotors are not water-proof temperature must be considered in the application of the gearmotor.

Voltage, frequency and phase of the power supply must correspond to that shown on the gearmotor nameplate. Low voltage can reduce performance

Power supply lines must have short circuit protection for the gearmotor and controller

and local codes. Refer to NEC Article 250 (Grounding) for additional

working on gearmotor.

connected load.

Gearmotor surface may be hot enough to be painful or cause injury. This condition is normal for most gearmotors when operated at rated load and volt-Be careful when touching the exterior surface of an operating gearmotor! age.

gearmotor or its connected load. Installation must conform to all

OSHA requirements, the National Electrical Code (NEC) in the United

States and all local codes.

ous or fatal injuries. Always disconnect power source before working

High voltage and moving parts around gearmotor

and gearmotor driven equipment can cause seri

Do not use this gearmotor in a location where fire

AND MINIMAL or explosion hazards may exist as defined by Article 500, Hazardous Locations, of the National Electric Code (NEC)

Gearmotor must not be used in any combustible atmosphere or near

any combustible material.

explosive atmosphere. **AWARNING**

Open, Dripproof Gearmotor - Clean dry locations with access to an adequate supply of cooling air. LOCATION

the environment.

POWER SOURCE

and cause overheating.

A 208 volt system requires a gearmotor rated at 200 or 208 volts.

MOTOR CONTROL DEVICES

SERVICE PARTS &

Gearmotor must be securely and adequately grounded by wiring with a grounded metallic conduit, or other grounding method approved by the NEC

Make certain that the power source conforms to the requirements of the

Disconnect power before installing or servicing.

AWARNING

gearmotor.

Read the Gearmotor Installation and Maintenance Information Manual nance. Read this document carefully before attempting to disassem-

included with this product before installing or performing mainte-

in the United States.

AWARNING

PARTS & SERVICE

Any switching device used to control gearmotor must have a horsepower rating equal to or greater than the motor.

Do not use an electronic adjustable speed control device with this gearmotor.

GEARMOTOR MOUNTING

H S - L G Z H

Mount gearmotor to a rigid surface, preferably metallic, using high-quality bolts of the largest possible diameter that will fit mounting holes. Gearmotor must be securely fastened to mounting surface.

COUPLING GEARMOTOR TO LOAD

For operating conditions, other than a normal 8 hour day and shock-free operation, multiply the rated output torque of the gearmotor by the applicable load factor listed in the LOAD FACTOR TABLE. Shock loads must be avoided.

LOAD FACTOR TABLE

S	
Continuous 24 hrs.	6:0 8:0
Operating Time Normal 8-hr. day	1.0
Inter- mittent	1.0
Nature of Load	Uniform Mod. Shock

Direct-coupled installations require a careful check of shaft and coupling alignment. Shim gearmotor mounting as necessary. Do not depend on a flexible coupling to compensate for misalignment.

Avoid excessive side load (e.g., over tightened chain or belt). Overhung load must not exceed unit's OVERHUNG LOAD rating (listed in catalog) at the mid-span point on output shaft.

DETAILED OVERHUNG LOAD CALCULATIONS

Sideward (radial) force on an output shaft is called overhung load. Driving a load through a sprocket, pulley, or gear which is mounted on the output shaft causes overhung load on the shaft. Too much overhung load can break the shaft or cause the bearings to fail prematurely. Locate the center line of the sprocket, pulley, or gear as close to the oil seal as practical to minimize overhung load and increase bearing life.

Calculate the amount of overhung load in your installation as follows:

Overhung = $\overline{(2) \times (T) \times (D) \times (L)}$ Load (lbs.) (P) The terms of the above formula are defined as follows:

(T)=Full load torque of gearbox, in in/lbs, from specifications and performance
(D)=Drive factor from following chart, accounting for type of drive
(P)=Pitch diameter, in inches, of drive being mounted on gearbox output shaft
(L)=Leverage factor from following chart, accounting for position of drive along length of gearbox output shaft.

DRIVE FACTORS

)e		1	1		100		-			Factor
Sprocket										.1.00
Pulley		•						:		.1.50
Gear				170						.1.25
Flat belt pulley	:			:						.2.50

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EVERAGE
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Coupling Location

End of shaft extension1.20
Center of shaft extension
Next to shaft extension shoulder0.80
After calculating the amount of overhung load expected in your installa-
tion, compare it to the overhung load rating (limit) listed in catalog. If the
expected amount of overhung load is higher than the specified limit, you
must change a component or the location of a component in your installa-
tion to bring the overhung load within the limit. To increase the operat-
ing life of the gearbox bearings, design your installation to reduce over-

IN-LOZE

hung load as much as possible.
CONNECTING POWER TO GEARMOTOR

To connect gearmotor for proper voltage and rotation, refer to the connection diagram on the nameplate or inside the terminal/conduit box.	Motor 25 Feet 50 Feet 100 Feet 150 Feet 200 Feet
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Motor	25 Fee	et	50 Fee	et .	100 Fe	et	150 Fe	Feet	200 Fe	Feet
ΗF	115V	230V								
up to										
1/25	14	14	14	14	14	14	14	14	14	14
1/20	14	14	14	14	14	14	14	14	12	14
1/15	14	14	14	14	14	14	12	14	12	14
1/10	14	14	14	14	12	14	12	14	10	14
1/8	4	14	14	14	12	14	10	4	10	14
1/6	4	14	14	14	12	14	10	14	10	4
1/4	14	14	4	14	12	14	10	14	00	14

VOTE

Above wire sizes based on approximate 5% voltage drop during starting; copper conductors. For aluminum wire, increase two wire size steps minimum. See NEC Article 310 for ampacities of aluminum conductors.

AWARNING Determine direction of rotation before con-

If the gearmotor is exposed to excessive moisture (e.g., flooded, submerged, sprayed), have the gearmotor serviced by a qualified motor repair shop before operating.

On PSC gearmotors, make sure the gearmotor run capacitor rating matches the capacitor rating on the gearmotor nameplate. When replacing an existing gearmotor, the capacitor should also be replaced.

Operating Gearmotor

Connect gearmotor to load and run briefly. Check for unusual noises and vibration (see Troubleshooting). Check gearmotor current; it should not exceed nameplate value.

Visually re-inspect the installation. Make sure that the guards and all other protective devices are securely in place. All covers and gaskets must be reinstalled to minimize the entry of dirt and moisture. During continual operation, the surface temperature of the gearmotor may

During continual operation, the surface temperature of the gearmotor may become hot. For most gearmotors when operated at rated load and voltage, this condition is usually normal. To verify if condition is normal, check gearmotor tor current and voltage; they should be close to the ratings specified on the nameplate.

PSC Type Gearmotors are not designed for instantaneous reversing. The gearmotor must come to a complete stop before reversing rotation.

Recommended Maintenance

motor vent openings, by vacuuming. **Dirt accumulations can cause motor heating and a fire hazard.** Enclosed motors can be cleaned with Remove dirt accumulations in and around gearmotor, specifically around an air jet; wear eye protection

noises or vibration; overheating, worn or loose couplings, sheaves and belts or sprockets and chain; high motor current; poor wiring or overheated connections; voltage; loose mounting bolts or guards; and worn motor Periodically inspect the installation. Check for dirt accumulations; unusual starter contacts.

H S - L G Z E

Exercise caution with solvents; some solvents may attack motor insulation, finish or bearing lubricants; some are highly flammable. If solvents are used, make sure area is well vented.

Dayton gearmotor bearings (ball and/or sleeve) are pre-lubricated at the factory and do not require relubrication.

Ordering Replacement Parts

A CAUTION Use only Dayton authorized replacement parts when repairing gearmotor.

IMPORTANT: For replacement parts information, refer to the enclosed Product Specific Information Manual furnished seperately.

Order Replacement Parts By Calling Toll Free 1-800-323-0620

Address parts correspondence to: **Grainger Parts Operations** Please provide following information: 24 hours a day - 365 days a year ■ Model Number

Northbrook, IL 60065-3074 U.S.A. 1657 Shermer Road P.O. Box 3074 shown in Product Specific ■ Serial Number (if any) Information Manual ■ Part Number as

Iroubleshooting

This chart suggests common answers to gearmotor problems. The information is not all-inclusive and does not necessarily apply in all cases. When unusual operating conditions, repetitive failures, or other problems occur, obtain technical assistance.

Symptom	Possible Cause(s)	Corrective Action
Unit fails to operate	1. No power	1. Consult local power company
	2. Blown fuse or open circuit breaker	2. Replace fuse or reset circuit breaker. Check for grounded motor winding
	3. Voltage too low at motor terminals due to line drop	3. Consult local power company. Check for poor connections. Increase wire size (refer to Minimum Wire Size Table)

Unit fails to operate (Continued)	4. Improper line connections	4. Check connections against diagram
		supplied with unit
	5. Defective motor	5. Repair or replace
	6. Defective control switch or starter	6. Repair or replace
	7. If permanent split capacitor unit, capacitor may be defective	7. Replace. Refer to unit's nameplate for correct value
	8. Gearmotor may be overloaded	8. Reduce load or increase gearmotor size. Check load and alignment of coupling
A Company of the Comp	9. Tight motor shaft on open C-frame type Shaded Pole gearmotors	9. Occasionally during shipment the motor sleeve bearing may missilion causing the motor shaft not to rotate freely. Tap slightly on side of the motor with a plastic mallet to align the bearings. Do not tap on motor bobbin coil or bearing bracket.
Unit stalls during operation	1. Overload	1. Determine cause of overload. Reduce load or increase gearmotor size
	2. Low voltage	Verify that name- plate voltage is maintained
Unit operational but no output	1. Defective gear(s)	1. Check and replace if necessary
	2. Gear loose on shaft	2. Check and replace if necessary
	3. Loose coupling, sheave or sprocket	Check and tighten if necessary
	Sheared key on output shaft	 Replace key and inspect keyway for damage

Intermittent rotation of output shaft	Damaged intermediate gear caused by shock load	Replace and, if possible, avoid shock load
Excessive noise	1. Bearing worn or damaged	1. Replace
	2. Belt or chain too tight	2. Adjust tension
	3. Overhung-load exceeds rating and causes bearing wear	3. Correct load and/or replace bearing
	4. Defective gear(s)	4. Replace
	5. Output shaft misaligned	5. Realign
	6. Loose sheave or sprocket or misaligned coupling	6. Tighten Set Screw(s). Realign coupling
	7. Defective motor winding	7. Replace
Unit overheats while running under load	1. Overloaded	Reduce load, increase gearmotor size; belts or chain too tight
	2. High or low voltage	2. Check voltage at motor connections, should not be more than 10% above or below
	3. Faulty connection	3. Check and tighten if necessary
	4. Dirt blocking ventilation openings	4. Clean motor
" Charles but "	5. Defective motor	5. Repair or replace
Unit does not come up to speed or takes too long to accelerate	1. Voltage too low at motor terminals	1. Check for poor connections. Increase wire size (refer to Minimum Wire Size Table)

Symptom	Possible Cause(s)	Corrective Action
Unit does not come up to speed or takes too long to accelerate (Continued)	2. Starting load too high	2. Unit may be under size to start load. Increase unit size. Load contains a bound condirion. Clear condition
	3. Excessive loading; tight belts or chain	3. Reduce load; increase unit size. Adjust belt or chain tension
	4. Defective gearmotor	4. Repair or replace
	5. Inadequate starting torque. High inertia load	5. Replace with larger unit

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Limited Warranty

Dayton Two-Year Limited Warranty. Dayton' Shaded Pole and Permanent Split Capacitor Type Gearmotors are warranted by Dayton Telectric Mity. Co. (Dayton) to the original user against defects in work-marchip or materials under normal use for two years after date of purchase. Any part which is determined to be defective in imaterial or workmanship and returned to an authorized service location, as Dayton designates, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced at Dayton's option. For limited warranty claim procedures, see PROMET DISPOSITION below. This limited warranty gives purchasers specific legal rights which vary from jurisdiction.

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

Warranty Disclainer. Dayron has made a diligent effort to provide product information and illustrate the product in this literature accurately, however, such information and illustrations 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.

Except as provided below, no warranty or affirmation of fact, expressed or implied, other than as stated in the "Uniffeed Machanity" above is made or authorized by Payron.

Product Sutability, Many jurisation and proper and regulations provening sales, construction, installation, and/or use of products for readin purposes, which may vary from stowering sales, construction, installation afferings to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the products to answer Before purchase and use of a product, evelve the product applicable all applicable national and local codes and regulations, and be sure

that the product, installation, and use will comply with them.

Gertain aspects of disclaimers are not applicable to consumer products; e.g., (a) some jurisdictions do not allow the exclusion or limitation or incidental or consequential damages, so the above limitation or exclusion or influence or some protects of the exclusion on how long an implied warranty for you; (b) also, some jurisdictions do not allow a limitation on how long an implied warranty lasts, consequentially the above limitation may not apply to you; and (c) by law, during the period of this limited warranty, any implied warranty of implied merchantability or fitness for a particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

Prompt Disposition. Dayton will make a 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. For survive or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve astifactorily, write to Dayton at address 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 to you, file claim with carrier.

Manufactured for Dayton Electric Mfg. Co., 5959 W. Howard St., Niles, Illinois 60714 U.S.A.