## INSTRUCTIONS **CONVEYORS & SEPARATORS**



**Bottle & Parts** 



Combination



**Inclined & Infeed Combo** 



**FIC Conveyor** 



**Granulator Feed** 



Inclined



**Parts Conveyor** 

## MODEL NO.

SERIAL NO.

PPE Conveyors are manufactured and sold direct by Plastic Process Equipment. Inc. We are not associated with any other manufacturer except Budget Molder's Supply, Inc. Always specify genuine PPE or Budget Hi-Line conveyors! Do not accept substitutes.

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www.ppe.com • e-mail: sales@ppe.com INC. 11218 Challenger Avenue, Odessa, Florida 33556 727-834-8888 • 800-282-6783 • Fax: 727-834-8873

Toll Free: USA, Canada & Mexico 800-362-0706

Thank you for purchasing a conveyor or separator from Plastic Process Equipment, Inc. These instructions are intended as a guide for your new product. If you have any additional questions, contact PPE at 800-321-0562.

#### **RECEIVING**

Thoroughly inspect your new conveyor or separator before unpacking it for set up. Report any damage to the motor freight carrier; they are responsible for damages incurred during transit.

#### **ATTENTION!!**

#### Please read through the entire booklet first.

You must be trained and authorized by your employer in the proper installation operation, maintenance and set-up of your new equipment. *Safety First Always!* 

#### **ELECTRICAL**

All conveyors and separators are equipped with a starter switch and an overload protection heater. A grounded 120 volt outlet and a three wire grounded extension cord must be used at all times.

The On/Off switches on some models are resettable, should the switch get overloaded for some reason it may be necessary to reset it before the conveyor will run again. See switch cover for reset instructions.

#### WARNING DRIVE MOTOR

The standard 1/6hp 655 drive motor is not designed for repeated start stop operation, if you turn the conveyor on and off more than 10 times per hour you damage the motor by overheating. There are special order motors available for start/stop operations, please consult the factory.

## CAUTION DURING USE AND OPERATION OF CONVEYORS OR SEPARATORS

- Do not wear loose clothing or jewelry around the conveyor.
- Do not wear rings, necklaces, or jewelry.
- · Long hair must be tied and netted.
- Keep all hands, arms, and fingers away from any moving parts except the conveyor belt surface.
- Never stand on the conveyor belt for any reason whatsoever.
- Do not operate any conveyor with the guards removed.
- Do not operate the conveyor with parts missing, removed, or in a disassembled state.
- · Pay special attention to the ON-OFF switch location.
- Wear safety glasses if your company or process requires them.
- You must unplug the conveyor before performing any repairs or maintenance.
- If you are unsure about installation, operation, maintenance, or setup call PPE!

#### TYPES OF CONVEYORS

PPE carries both V-Belt and non V-Belt Conveyors. The easiest way to tell if your conveyor is a V-Belt is by the serial number. If there is a "V" in the serial number your conveyor is a V-Belt. **EXAMPLE:** the serial number PC1812**V**251439 is a conveyor with the V-Belt system (note the V in the serial number). If the serial number on your conveyor has an **R** or an **A** following the **V**, your conveyor has direct drive. **EXAMPLE:** PC 182V**R**251439 is a direct drive conveyor.

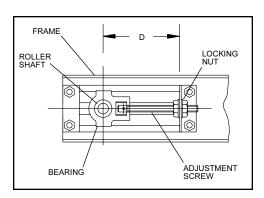
#### **BELT TRACKING AND TENSION**

All conveyors and separators are thoroughly tested in our factory after final assembly. Although the belts are adjusted to track properly with the right amount of tension, some adjustments may be necessary during use. For best results and longevity of the drive components, the belt should be run with the **LEAST** tension needed to transport the load without slipping. If the belt is too loose, it will slip causing wear to the belt's underside. **CAUTION: DO NOT OVERTIGHTEN THE CONVEYOR BELT.** An overtightened belt will cause premature failure of your bearings, shafts and, on some models, the drive unit.

#### BELT TRACKING: THE V-BELT STYLE

The V-Belt tracking system keeps your belt centered and tracking properly. No adjustment should be necessary if both take up bolts are adjusted the same amount during belt tension adjustment. To check the tracking of your belt, measure the take up bolts on both sides of the conveyor. The distance between the center of the roller shaft and the bracket behind the locking nut (see Figure 1) should be the same for both bolts.

Figure 1



800-362-0706

For another quick check, place a carpenter's square along the frame and belt of your conveyor. If it is tracking properly, the carpenter's square will fit snugly in the corner (see Figure 2). If your conveyor is not tracking properly, adjust

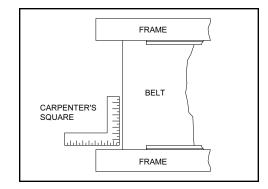


Figure 2

the locking nuts on both sides until they are equal. **BE CAREFUL NOT TO OVERTIGHTEN!** 

#### BELT TRACKING: NON V-BELT CONVEYORS

Check to ensure your conveyor is tracking properly. If your belt drifts to the left or right, it needs adjustment. To adjust your belt, loosen the locking nuts on each side of the conveyor (see Figure 1). With the conveyor operating, tighten the tension screw on the side of the drift 1/4 turn (EXAMPLE: if your belt drifts to the right, tighten the right take-up screw approximately 1/4 turn). Wait several minutes to allow the belt to drift and reposition on the rollers. Continue to adjust the appropriate take up bolt until the belt tracks evenly on both sides. DO NOT OVERTIGHTEN THE CONVEYOR BELT! If necessary, reset the belt tracking by loosening the opposite side. Once the belt tracking is complete, be sure to lock the take up adjustment screws with the locking nut.

#### LUBRICATION: DIRECT DRIVE UNITS

PPE conveyors and separators (FIC, FT, ICB, PC-06, PC, PUC, SCI and FS Separator) have two drive bearings (the bearings at the motor end of the conveyor), and the take-up bearing (at the opposite end of the conveyor). All bearings are permanently lubricated, therefore we do not provide a grease fitting. Our experience has shown conveyor users tend to over grease bearings to the point where grease works it's way between the rollers and belts causing serious problems of contamination and belt slippage.

#### LUBRICATION: CHAIN DRIVE UNITS

(BIC, FT, FS, VICB, PC 06, PC 12, PC 18, PC 24, PCS, PUC, VIB, ICG, PCS) PPE chain drive units use permanently lubricated drive chains that <u>do not</u> require lubrication. All bearings are permanently lubricated, therefore we do not provide a grease fitting.

#### **CAUTION:**

DO NOT ALLOW LUBRICATION TO GET ON THE UNDERSIDE OF THE BELT.

#### **CAUTION:**

BEARINGS SHOULD NOT RUN CONTINUOUS AT TEMPERATURES OVER 200°F AND SHOULD NEVER EXCEED 225°F FOR INTERMITTENT OPERATIONS.

#### PCS SEPARATOR ATTACHMENTS

The PCS separator is driven off of the main conveyor unit using a belt drive system. This allows slippage if the separator roller unit were to catch on something. **DO NOT OVERTIGHTEN** the drive belt, it should have just enough tension to drive the roller. This is a safety feature.

#### WARRANTY

All PPE Conveyors have a full **two year warranty**. This warranty doesn't include conveyor belts because they are subject to excessive wear damage and abuse by the user. This Warranty should not extend to goods subjected to misuse, abuse, neglect, accident or improper installation or maintenance, or products or goods which have been altered, modified or repaired by anyone other than seller or its authorized and approved representatives.

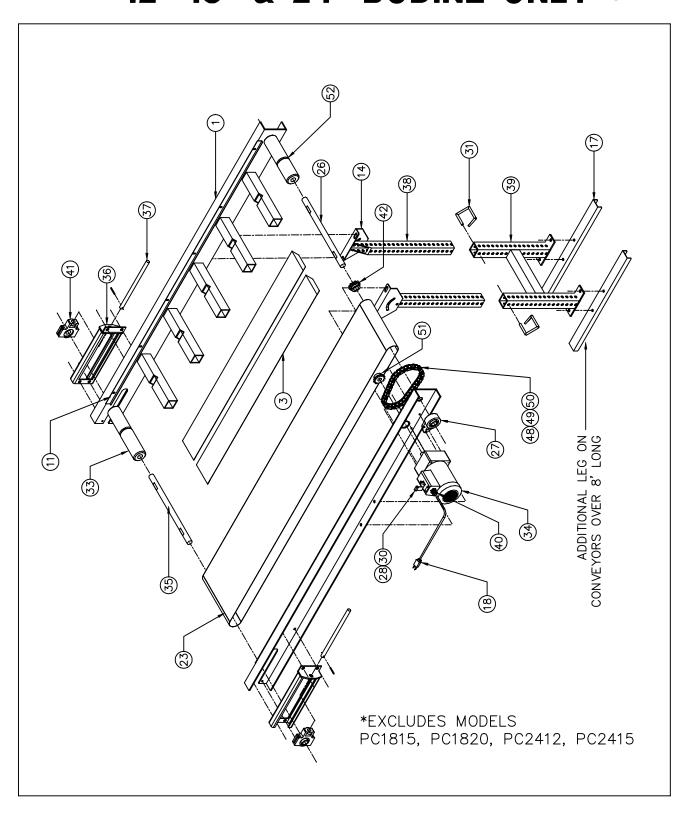
### PC CONVEYORS BODINE DRIVE PARTS

09/16/15

		09/10/13	
ID	P/N	DESCRIPTION	UOM
OPTIONAL	0791B	0791B BODINE VARIABLE SPEED CONTROL W/12FT CORD	EA
OPTIONAL	MM23201C	REVERSING VARI SPEED CONTROL MINARIK 1/2 - 1HP	EA
OPTIONAL	C-6909-2	VARIABLE SPEED MOUNTING BRACKET 90° FOR MM23101C	EA
OPTIONAL	1060	1/4 HP DC MOTOR	EA
OPTIONAL	H40B12X5/8	4012 X 5/8 HARDENED SPROCKET	EA
OPTIONAL	A-5888	NEW STYLE "F" BRACKET (SET)	SET
OPTIONAL	TAD-12	DISCHARGE TRAY B-1678-12	EA
OPTIONAL	TAD-18	DISCHARGE TRAY B-1678-18	EA
OPTIONAL	TAD-24	DISCHARGE TRAY B-1678-24	EA
OPTIONAL	B-8186	MOTOR BRACKET FOR MU MOD	EA
OPTIONAL	B-8181	MOTOR GUARD FOR MU MOD	EA
OPTIONAL	A-7013-12	DRIVE SHAFT PCS	EA
OPTIONAL	A-7013-18	DRIVE SHAFT PCS	EA
OPTIONAL	A-7013-24	DRIVE SHAFT PCS	EA
OPTIONAL	B-1602	SIDERAILS	EA
1	D-1096-(W)-(L)	FRAME	EA
3	B-1285	BEDDING	EA
11	B-1263	ANGLE BELT STRIPS S/S (SET) 92"	SET
14	B-1934-92 B-1654	LEG MOUNTING BRACKET POWERCOATED	EA
17	B-1687	PC LEG FEET LONG CHANNEL	EA
		K5152 12' POWER CORD	
18	K5152		EA
23	BELT	SEE COST SHEET	EA
26	B-6819-12	1" DRIVE SHAFT PC BCP FT	EA
26	B-6819-18	1" DRIVE SHAFT PC BCP FT	EA
26	B-6819-24	1" DRIVE SHAFT PC BCP FT	EA
27	FB16X1	FIXED BEARING	EA
28	CR101Y11	SWITCH WITH PILOT LIGHT	EA
30	FUSE	FUSE	EA
31	T092	LOCK PIN	EA
33	B-5578-12	VEE GROOVE ROLLER 12"	EA
33	B-5578-18	VEE GROOVE ROLLER 18"	EA
33	B-5578-24	VEE GROOVE ROLLER 24"	EA
34	655	655 1/6HP BODINE GEARMOTOR	EA
35	B-5620-12	IDLER SHAFT 12"	EA
35	B-5620-18	IDLER SHAFT 18"	EA
35	B-5620-24	IDLER SHAFT 24"	EA
36	C-5582	1" TAKEUP BRACKET	EA
37	C-5582B	ADJ BOLT FOR TAKE UP BRACKET	EA
38	A-4705	UNISTRUT STAND EXTENSION GALVANIZED 22"	EA
39	A-7995-1612	UNISTRUT STAND BOTTOM 12" WIDE	EA
39	A-7995-1618	UNISTRUT STAND BOTTOM 18" WIDE	EA
39	A-7995-1624	UNISTRUT STAND BOTTOM 24" WIDE	EA
40	SEC50BA	STRAIN RELIEF FOR ELECTRIC CORD	EA
41	TU250X1	TAKE-UP BEARING	EA
42	H40B12X1	4012 X 1" HARDENED SPROCKET DRIVEN	EA
45	A-2454	BELT SAG BRACKET (SET)	EA
46	B-5891-R12	SAG ROLLER FOR 12"	EA
46	B-5891-R18	SAG ROLLER FOR 18"	EA
46	B-5891-R24	SAG ROLLER FOR 24"	EA
47	B-5891-S12	SAG SHAFT FOR 12"	EA
47	B-5891-S18	SAG SHAFT FOR 18"	EA
47	B-5891-S24	SAG SHAFT FOR 24"	EA
48	40CK	40 CHAIN, HALF LINK, MASTER LINK KIT	EA
51	H40B12X3/4	4012 X 3/4 HARDENED SPROCKET DRIVE	EA
52	A-6821-12N	V-GR DR ROLLER 1" SHAFT PC/PCS BODINE KNURLED	EA
52	A-6821-18N	V-GR DR ROLLER 1" SHAFT PC/PCS BODINE KNURLED	EA
52	A-6821-24N	V-GR DR ROLLER 1" SHAFT PC/PCS BODINE KNURLED	EA
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SEE BELT SHEET FOR BELTS

## PC CONVEYOR PARTS 12" 18" & 24" BODINE ONLY \*





### PLASTIC PROCESS EQUIPMENT, INC.

8303 Corporate Park Drive, Macedonia (CLEVELAND), OHIO 44056 (216) 367-7000 TOLL FREE: 800-321-0562 FAX (216) 367-7022 ORDER FAX: 800-223-8305 EMAIL: SALES@PPE.COM

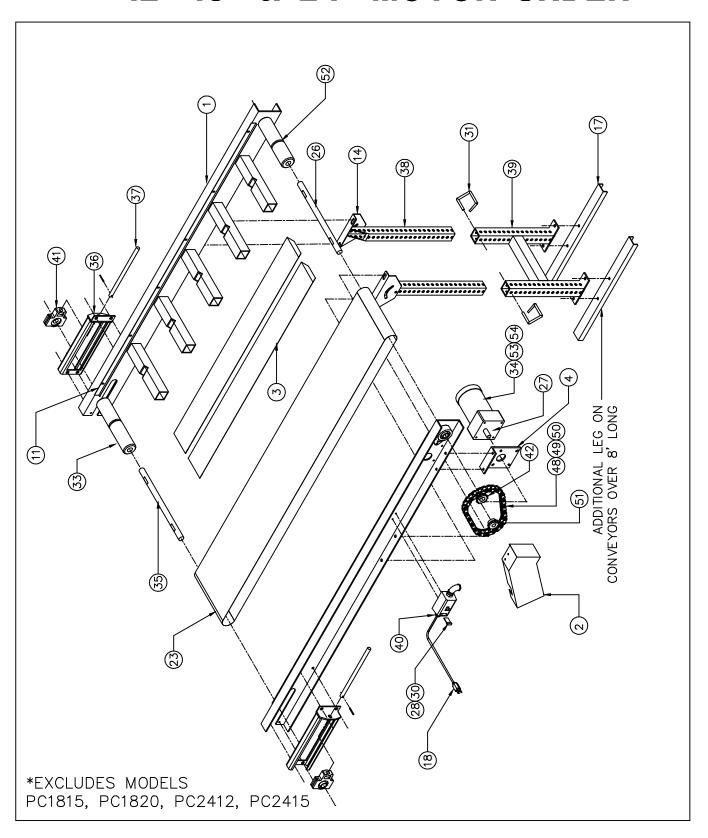
## PC CONVEYORS MOTOR UNDER DRIVE PARTS

09/16/15

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3	B-1285	BEDDING	EA
4	B-8186	MOTOR BRACKET FOR MU MOD	EA
11	B-1954-92	ANGLE BELT STRIPS S/S (SET) 92"	SET
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17	B-1687	PC LEG FEET LONG CHANNEL	EA
18	K5152	K5152 12' POWER CORD	EA
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52	B-5578-12N	VEE GROOVE ROLLER 12" KNURLED	EA
52	B-5578-18N	VEE GROOVE ROLLER 18" KNURLED	EA
52	B-5578-24N	VEE GROOVE ROLLER 24" KNURLED	EA
53	XC290	3/8 CONNECTOR	EA
54	0984	JUNCTION BOX FOR 655 MOTOR	EA

SEE BELT SHEET FOR BELTS

# PC CONVEYOR PARTS 12" 18" & 24" MOTOR UNDER \*

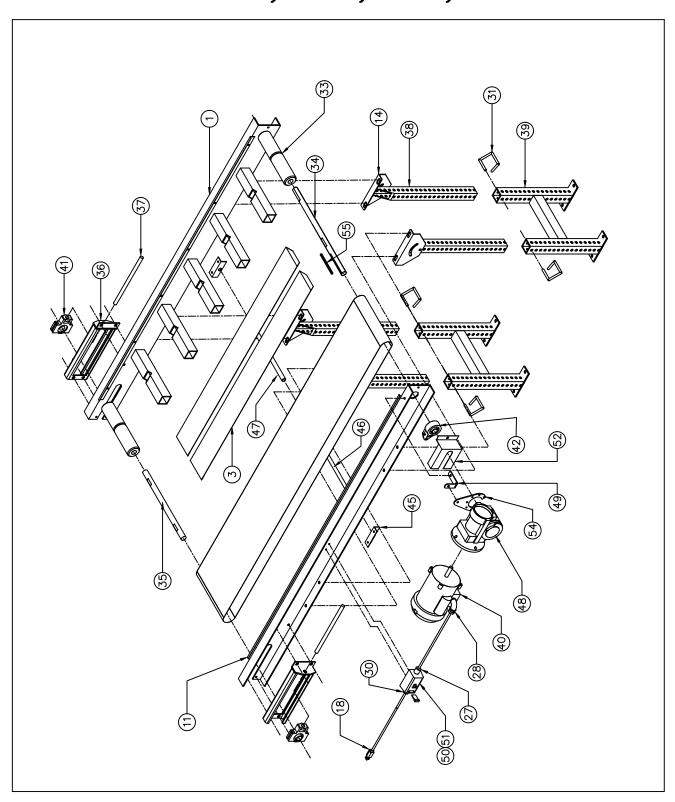




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# PC CONVEYOR PARTS 1815,1820,2412,2415





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3615 Walnut Avenue, Chino, California 91710 (909) 627-8511 TOLL FREE: 800-258-8877 FAX: (909) 627-8101 11218 Challenger Ave., Odessa, FL 33556 (727) 834-8888 TOLL FREE: 800-282-6783 FAX: (727) 834-8873

#### PC CONVEYORS 09/16/15 PARTS LIST 1815, 1820, 2412, 2415 0791B 0791B BODINE VARIABLE SPEED CONTROL W/12FT CORD EA OPTIONAL OPTIONAL MM23201C REVERSING VARI SPEED CONTROL MINARIK 1/2 - 1HP VARIABLE SPEED MOUNTING BRACKET 90° FOR MM231010 OPTIONAL C-6909-2 EΑ OPTIONAL 098004 1/3 HP DC LEESON MOTOR ΕA GB20-1 OPTIONAL RIGHT ANGLE GEAR BOX 20:1 RATIO w/REACTION ARM NEW STYLE "F" BRACKET (SET) OPTIONAL A-5888 SET 1 D-1096-(W)-(L) FRAME EΑ B-1285 EΑ B-1954-92 ANGLE BELT STRIPS S/S (SET) 92" 11 SET 14 B-1654 LEG MOUNTING BRACKET POWERCOATED EΑ K5152 12' POWER CORD 18 K5152 EΑ BELT SEE COST SHEET 3/8" SEALTITE HOSE 14" LONG 26 10101G EΑ APPLETON CONNECTOR STRAIGHT EΑ SEAL TITE FITTINGS 90 DEG 28 ST-9038 EΑ 30 SEC50BA STRAIN RELIEF FOR ELECTRIC CORD EΑ T092 31 LOCK PIN EΑ B-5578-18 33 VEE GROOVE ROLLER 18" VEE GROOVE ROLLER 18" KNURLED 33 B-5578-18N EΑ 33 B-5578-24 VEE GROOVE ROLLER 24" EΑ 33 B-5578-24N VEE GROOVE ROLLER 24" KNURLED EΑ 34 B-5579-18 DRIVE SHAFT 18" EΑ B-5579-24 DRIVE SHAFT 24" 34 EΑ IDLER SHAFT 18" B-5620-18 IDLER SHAFT 24" 35 B-5620-24 EΑ C-5582 1" TAKEUP BRACKET EΑ C-5582B ADJ BOLT FOR TAKE UP BRACKET 37 ΕA 38 A-4705 UNISTRUT STAND EXTENSION GALVANIZED 22" EΑ A-7995-1618 39 UNISTRUT STAND BOTTOM 18" WIDE EΑ 39 A-7995-1624 UNISTRUT STAND BOTTOM 24" WIDE 40 110056 1/2 HP AC LEESON MOTOR EΑ TU250X1 TAKE-UP BEARING EΑ FIXED BEARING 42 FB16X1 EΑ 45 A-2454 BELT SAG BRACKET (SET) EΑ SAG ROLLER FOR 18" 46 B-5891-R18 EΑ B-5891-R24 SAG ROLLER FOR 24" SAG SHAFT FOR 18" B-5891-S18 47 EΑ B-5891-S24 SAG SHAFT FOR 24" EΑ RIGHT ANGLE GEAR BOX 60:1 RATIO w/REACTION ARM 48 GB60-1 ΕA 49 A-8788 GEAR BOX TORQUE ARM EΑ 50 CR101Y11 SWITCH WITH PILOT LIGHT EΑ FUSE FUSE 51 52 A-6042 GUARD FOR RIGHT ANGLE DRIVE EΑ 53 2X569 5/8" COLLAR EΑ 54 G175202.00 TORQUE REACTION ARM EΑ 1/4 X 1/4 X 4-3/4 SQ KEY FOR R/A DRIVE SHAFT 2481250

SEE BELT SHEET FOR BELTS