



## **Power/Flex® Powered Expandable Conveyor** **Operation, Maintenance and Parts Manual**

*PF15 & PF19 SERIES*



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## 1 DOCUMENT CONTROL

**Document:** PowerFlex PF15 & PF19 Operation Manual

**Version:** 1.1, Dated 18 September, 2008

**Original By:** K Hulleman

**Revised By:**

## 2 IMPORTANT NOTES

Please note the safety and warning notes in this publication.



**Electrical Hazard**

Could result in death or severe injuries.



**Imminent Danger**

Could result in death or severe injuries.



**Dangerous Situation**

Could result in slight or minor injuries.



**Damaging situation**

Could result in damage to equipment or operating environment.



Operating hints and useful information.



Indicates a list of important points

1.

Indicates a list of important steps

**BOLD  
TEXT**

Indicates a important notation

Close adherence to the operating instructions is the prerequisite for fault-free operation and fulfilment of any rights to claim under guarantee. Please start by reading the operating instructions prior to operating the conveyor.

Keep operating instructions in the vicinity of the conveyor since it contains important information on service procedures.

### **3            WARRANTY**

Your Best conveyor is protected by our premier warranty. LongReach Conveyors will replace, free of charge, parts that are damaged during the course of normal operation due to material or workmanship defects. This warranty extends for a period of one (1) year on all mechanical components.

This warranty does not cover damage due to accident, misuse, abuse and negligence. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair/modification by anyone other than authorized LongReach Conveyors service personnel.

### **4            DESIGNATED USE**

This PowerFlex Conveyor is intended for industrial use. The design and manufacture of the equipment corresponds to the applicable standards and regulations. The maximum unit load of a product under normal operation is outlined in the specifications section of this manual.

## 5 SPECIFICATIONS

Your Power/Flex powered conveyor is built according to the following standard specifications:

	<b>PF15 SERIES</b>	<b>PF19 SERIES</b>
<b>CONVEYOR BED WIDTH</b>		
Inches	18, 24, 30	18, 24, 30
mm	457, 610, 762	457, 610, 762
<b>LOAD CAPACITY – per lineal ft (305mm)</b>		
Kilograms (Kg)	45	45
<b>PRODUCT TRAVEL SPEED</b>		
Metres per minute	10 – 36	10 - 36
<b>SUPPLY VOLTAGE</b>		
Volts	240v	240v
Amps	0.90 amps per motor	0.90 amps per motor
<b>NOISE LEVEL</b>		
Rating at conveyor level	70db	70db
<b>ROLLERS</b>		
Diametre mm	38	48
Bearings	Precision	Precision
<b>CASTORS</b>		
Inches	6 x 2	8 x 2
mm	150 x 25	200 x 50
<b>ADJUSTABLE CONVEYOR HEIGHT</b>		
mm	800 to 1000	720 to 925
<b>EXPANSION TO COMPACTION RATIOS</b>		
5" (127mm) axle centre	3.0:1	2.4:1
4" (102mm) axle centre	2.2:1	2.0:1
3" (76mm) axle centre	1.7:1	1.5:1
<b>MINIMUM INSIDE RADIUS</b>		
5" (127mm) axle centre	430mm	510mm
4" (102mm) axle centre	510mm	540mm
3" (76mm) axle centre	720mm	790mm

Cartons may rotate on the conveyor surface when the unit is set up in a curve.

Capacity of 45kg per foot will decrease if conveyor is on an incline.

## 6 INSPECTION AND MAINTENANCE

### 6.1 Maintenance Schedule

Your Power/Flex conveyor is designed to be virtually maintenance free. We do recommend that you regularly inspect the unit to ensure proper operation of mechanical and safety systems.

#### DAILY:

- Keep your PowerFlex conveyor free of dirt, debris and grease accumulation
- Inspect wires and cables for damage. If damage is found to wires or power cord, disconnect immediately and do not use until repaired
- Inspect drive belts for wear, replace if necessary
- Check all start/stop stations for correct operation
- Inspect leg elevations and adjust as necessary to ensure smooth product flow
- Look for mechanical damage or worn components and replace as necessary

#### MONTHLY:

- Check to ensure all nuts and bolts are moderately tight
- Check side plates for damage

**NOTE: DO NOT OVER TIGHTEN AS THIS MAY CAUSE FRAME DISTORTION AND PREVENT THE SYSTEM FROM PROPERLY FLEXING.**

## 7 SAFETY

### 7.1 Preliminary Remarks

The following safety notes are primarily concerned with the general use of PowerFlex powered conveyors.

### 7.2 General Information

LongReach have made every practicable attempt to eliminate and minimise the risk of injury which could be caused during the normal operation, installation, cleaning and maintenance of this plant, the associated risks are outlined in the appropriate Risk Assessment which is available on request. When using the conveyor the following safety practices must be adhered to help minimise the identified risks:

- Do not start conveyor without audible and visual “all clear”
- ONLY authorised personnel should operate and service the conveyor
- Do not operate conveyor with guards or protective equipment removed
- Do not remove jammed freight or pop-out rollers with conveyor running
- When expanding, compacting and moving the conveyor keep hands clear of the side plates
- Keep loose items, including, hair, fingers, clothing, gloves, neckties and jewellery clear of moving parts
- Know design limits. Do not overload conveyor
- Know location and function of emergency stops
- Turn off all power before working on conveyor
- Replace worn and broken parts immediately
- Report ALL unsafe conditions and practices to your supervisor
- DO NOT walk, ride, sit or climb on conveyor

**NOTE: ALL SAFETY FEATURES OF THE CONVEYOR MUST BE MAINTAINED IN SOUND WORKING CONDITION.**

### 7.3 Emergency Procedures

Do not render monitoring and protection equipment inoperative, even in test mode. Listen out for unusual noises as the conveyor operates. Immediately switch off the conveyor if in doubt whenever changes occur in relation to normal operation:

- **Increase in temperature**
- **Increase in noise**
- **Increase in vibration**
- **Operator safety**

## 8 INSTALLATION

### 8.1 Shipping, Handling and Storage

For the transporting of a PowerFlex conveyor, the unit should be placed and strapped to a skid. When strapping conveyor to skid ensure conveyor is fully compacted. Place a minimum of one strap horizontally around the top of the conveyor (just below leg handles) to ensure conveyor can not accidentally expand. Place a minimum of one strap lengthways, vertically, over bottom leg cross tube to strap conveyor to skid. Lock all brake castors and apply shrink wrap around conveyor for protection. Be mindful of wire and power cable locations when strapping conveyor to skids.

The conveyors must be covered during shipping to prevent the ingress of water or dust.

The conveyor should be moved and stored compacted, and always by the handles provided.

### 8.2 Installation and unpacking

A forklift with sufficient capacity may be used to lift the conveyor. Extreme care must be taken to ensure that there is no damage to the underside of the conveyor from the forklift tynes.

#### SAFE WORK PROCEDURE



1. Ensure forklift has sufficient capacity to lift the conveyor (check manufacturers plate)
2. Ensure conveyor is securely strapped to skid
3. Remove all hold down restraints
4. Locate centre of gravity of conveyor
5. Carefully lift the conveyor via the skid and place onto ground
6. Remove conveyors wrapping and carefully remove straps
7. Carefully remove conveyor from skid onto ground using handles provided

#### POTENTIAL HAZARDS



1. Possible to fall from truck when loosening restrains
2. Possible to fall from truck when removing protective covering (tarp)
3. Possible to be crushed by moving conveyor
4. Possible to be struck by moving conveyor

Unpack and expand inspect the PowerFlex conveyor prior to operation.



## 9 CONVEYOR OPERATION

### 9.1 Pre Operational Checks

Prior to operation of the conveyor it is important that a pre operational checklist is completed. The completion of a pre operational checklist will reduce the risk of injury to plant, environment and operator. The following is supplied as a guide, however as applicable owners, hirers, lessees or sellers should provide a safe work practise for this piece of equipment, including a pre-operational checklist.

#### Supervisor Checklist

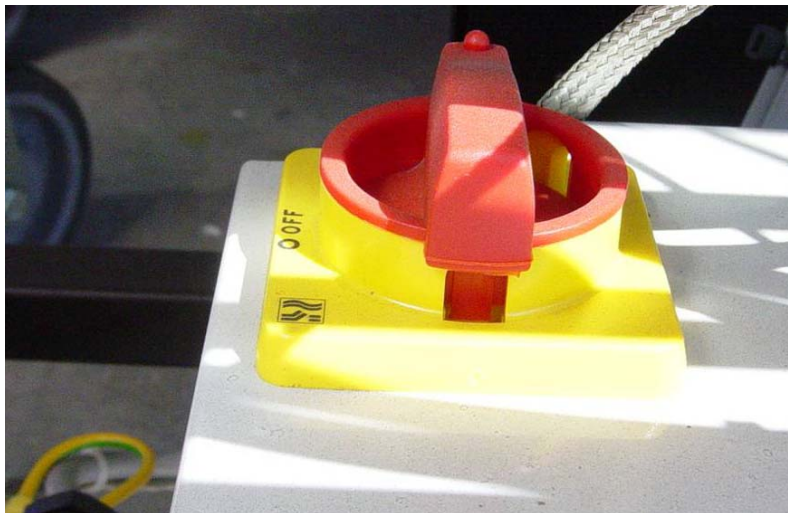
- Ensure operators have been trained and completed a competency test in the use of PowerFlex conveyors
- Ensure all operators have completed a safe work practise on the safe use of PowerFlex conveyors
- Ensure Risk Assessment has been conducted on this piece of plant by OHS&W committee
- Ensure all relevant personal protective equipment is made available to operators, **gloves must not be worn**
- Ensure operators are wearing appropriate footwear, no loose clothing or jewellery, long hair is tied back and safety vests are worn

#### Operator Checklist

- Check all emergency stops
- Check for foreign objects jamming conveyor
- Ensure all guards are fitted and are secure
- Ensure the area is clear of obstructions

## 9.2 Start Up and Shut Down

The conveyor system has one main control panel generally located at one end of the conveyor on the leg frame. The cabinet features an isolation switch with two positions, “OFF” and “ON”. To start up the conveyor turn the switch clockwise to the “ON” position, to turn off the conveyor turn the switch anticlockwise to the “OFF” position.



### SAFE WORK PROCEDURE – START UP



1. Notify immediate workmates that you are about to turn on the conveyor.
2. Ensure conveyor is clear from obstructions prior to turning power on
3. Keep hands clear of conveyor belt when powering conveyor on
4. Turn isolation switch clockwise until it clicks into correct position

### SAFE WORK PROCEDURE – SHUT DOWN



1. Notify immediate workmates that you are about to turn off the conveyor.
2. Ensure conveyor is clear from obstructions prior to turning power off
3. Turn isolation switch anti-clockwise until it clicks into correct position

### 9.3 Conveyor Speed and Direction

The PowerFlex features a Baldor speed and direction selector. The Baldor is generally located at the same end as the cabinet, underneath the conveyor. Prior to using the conveyor the speed and direction is required to be set.



#### SAFE WORK PROCEDURE – SPEED AND DIRECTION



1. Ensure isolation switch is in the “ON” position
2. Ensure the Baldor control switch is in the “ON” position (right hand switch)
3. Ensure the Baldor direction switch is in the correct position “FWD”, or “REV”
4. Ensure the required speed is selected

## 9.4 Conveyor Start and Stop

The PowerFlex features a button station at either end of the conveyor. To start the conveyor the operator is required to press the start button. To stop the conveyor at any time the operator is required to press the stop button.



### SAFE WORK PROCEDURE – START



1. Ensure isolation switch is in the “ON” position
2. Ensure the Baldor control switch is in the “ON” position (right hand switch)
3. Ensure the Baldor direction switch is in the correct position “FWD”, or “REV”
4. Ensure the required speed is selected
5. Notify immediate workmates that you are about to start the conveyor
6. Press green start button

### POTENTIAL HAZARDS



1. Possible to become entangled in rollers
2. Possible to get caught in between scissor
3. Possible to get caught in drive bands
4. Possible to get caught between conveyor and objects
5. Possible to obtain injury if conveyor is ridden

## 9.5 Expanding and Compacting Conveyor

Ensure the area around the conveyor is clear of obstructions and debris.

### SAFE WORK PROCEDURE



1. Notify immediate workmates that you are about to move the conveyor
2. Unlock the immediate castors
3. Grasp onto the conveyor handles on each side at both ends of the conveyor and pull until conveyor is expanded or compacted to required length
4. Lock the castors before placing product onto conveyor

### POTENTIAL HAZARDS



1. Possible to become entangled in rollers
2. Possible to get caught in between scissor
3. Possible to get caught in drive bands
4. Possible to get caught between conveyor and objects
5. Possible to obtain injury if conveyor is ridden

## 9.6 Height Adjustment

Ensure the area around the conveyor is clear of obstructions and debris.

### SAFE WORK PROCEDURE



1. Ensure conveyor is switched off and unplugged
2. Notify immediate workmates that you are about to move the conveyor
3. Ensure conveyor is fully expanded
4. Unscrew the adjustment knobs on the first leg set at **in-feed** end, lift the conveyor to required height and retighten the adjustment knobs
5. Unscrew the adjustment knobs on the first leg set at **discharge** end, lift the conveyor to required height and retighten the adjustment knobs
6. Adjust all intermediate legs as above to obtain correct flow
7. Compact the conveyor using leg handles and check for slopes and valleys between legs, readjust if required

### POTENTIAL HAZARDS



1. Possible to get caught in between scissor
2. Possible to get caught between conveyor and objects
3. Possible to obtain injury if conveyor is ridden
4. Possible to obtain injury when lifting conveyor

## 9.7 Loading and Unloading

The PowerFlex conveyor is designed to enable operators to manually place cartons onto or remove cartons from the conveyor bed.

### SAFE WORK PROCEDURE – LOADING ONTO CONVEYOR



1. Operator manually places carton or parcel onto conveyor using correct manually handling technique
2. Ensure freight is placed centrally onto conveyor
3. Small freight (e.g. envelopes, small cartons) should be placed on top of larger cartons
4. Ensure labels are facing in the required position

### SAFE WORK PROCEDURE – UNLOADING FROM BELT



1. Operator to identify correct oncoming parcel via label
2. Operator manually removes carton or parcel from conveyor using correct manually handling technique
3. Ensure freight is placed centrally onto pallet or secondary conveyor (if applicable)
4. Ensure labels are facing in the required position

### POTENTIAL HAZARDS



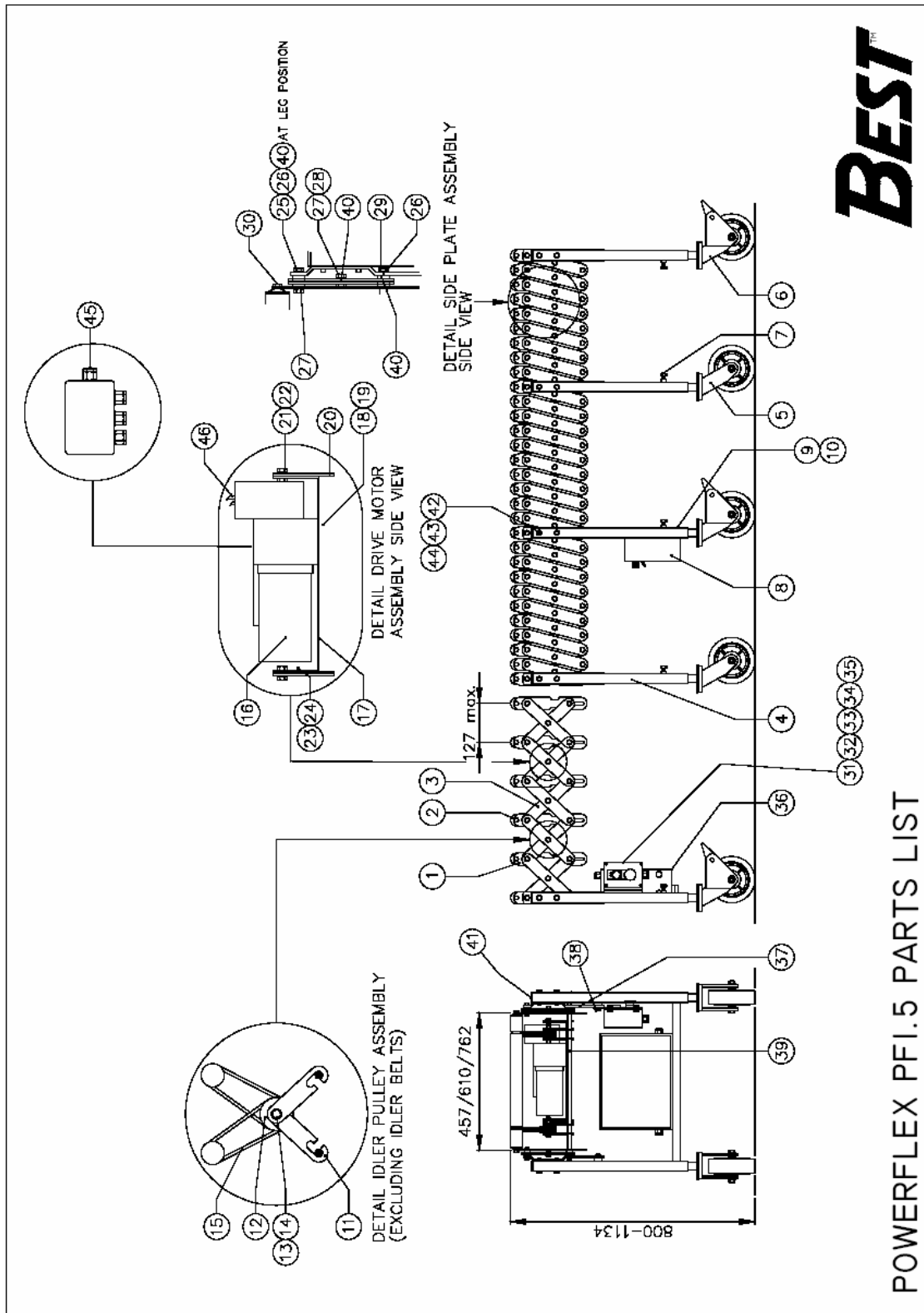
1. Possible to get caught in between scissor
2. possible to get caught in drive belts
3. Possible to get caught between conveyor and objects
4. Possible to get struck by objects on conveyor
5. Possible to obtain injury if conveyor is ridden
6. Possible to obtain injury when lifting conveyor

## 9.8 Troubleshooting

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>	<b>RECOMMENDED ACTION</b>
Conveyor does not open or run smoothly	Castors are locked or clogged with debris	Check castors and unlock or clear as necessary
	Bolts and nuts have been over tightened	Check bolt tension and slacken off as required
	Conveyor has suffered physical damage	Check unit and replace damaged parts
Conveyor will not run, DC Controller light 'Off'	Conveyor not plugged in	Plug Conveyor in
	No power at supply socket	Consult trained electrician
	Emergency stop button pressed in	Re-set button by turning anti-clockwise
	3A control fuse blown	Replace fuse & investigate cause
	D.C controller switched off	Switch D.C controller on
	D.C controller A.C fuse blown	Replace fuse & investigate cause
	R.C.D tripped in cabinet	Reset R.C.D and investigate cause
Conveyor will not run, D.C controller light 'On'	Fwd-Brake-Rev switch on controller set to brake position	Move switch to Fwd or Rev position
	D.C controller D.C fuse blown	Replace fuse and investigate cause
	D.C controller faulty	Replace D.C controller
	Contactors 'K1' or wiring faulty	Replace contactor or wiring
	Motor drive belts stretched or broken	Replace drive belts
	Sensors covered or broken (if fitted)	Uncover sensor or replace
Conveyor running in the wrong direction	Fwd-Brake-Rev switch on the D.C controller set in wrong position	Move switch to opposite position (conveyor will not work if the switch is in the centre position)
Conveyor running slowly	D.C controller, control speed knob set too low	Rotate speed control knob clockwise to achieve desired speed
	Motor drive belts stretched	Replace belts
	Conveyor overloaded	Ensure load on conveyor does not exceed maximum recommended load
Just one section of conveyor running slowly	Motor drive belts stretched or broken	Replace belts
	Roller drive belts slipped from idler pulley	Re-fit belt or replace if belt is stretched
	Motor mounting bracket loose	Replace axle or shoulder bolts
	Motor fuse blown	Replace 3A motor fuse and investigate cause
	Faulty motor	Replace motor
	Axle bolts loose or broken	Replace axle or shoulder bolts
Erratic conveyor performance when unloaded	Faulty controller	Replace controller
Repeated blowing of D.C controller fuses or tripping of R.C.D	Damaged wiring	Replace damaged cable
	Earth Fault on motor	Locate and replace faulty motor

10 SPARE PARTS

10.1 PF15 Parts Diagram

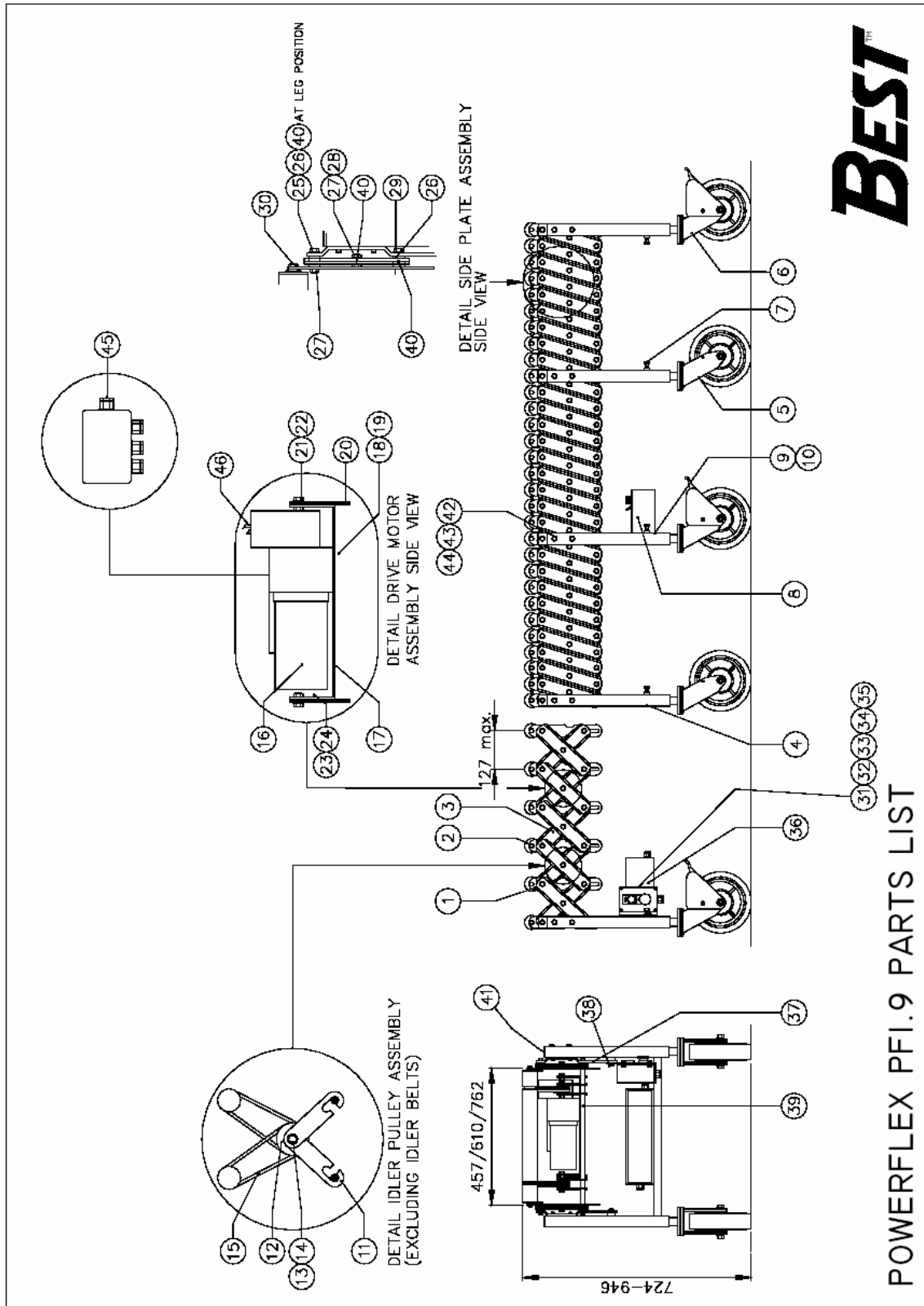


POWERFLEX PFI.5 PARTS LIST



**10.2 PF15 Parts List**

<b>ITEM</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1.	100040	PF Roller mounting bracket 127mm pitch
2.	100085 100090 100096	PF 1.5 Roller – 457mm PF 1.5 Roller – 610mm PF 1.5 Roller – 762mm
3.	100106	PF1.5 Side plate
4.	440016 440017 440018	PF 1.5 Leg Frame – 457mm PF 1.5 Leg Frame – 610mm PF 1.5 Leg Frame – 762mm
5.	110006	6" x 2" Non braked castor & stem
6.	110005	6" x 2" Braked castor & stem
7.	500118	M10 Leg adjuster knob
8.	200066	DC Controller
9.	500016	M6 X 45 Hex head bolt
10.	500040	M6 Nyloc full nut
11.	100029	Idler mounting bracket
12.	100083	Double grooved idler pulley
13.	500002	3/8" UNC x 2" bolt
14.	500026	3/8" UNC nyloc half nut
15.	100020	Clear idler belt
16.	110017	Motor guard assembly
17.	400045	Motor mounting bracket
18.	500048	1/4" UNC x 1/2" Screw
19.	500102	1/4" Shake proof washer
20.	100078	Motor mounting brace bracket
21.	500004	5/16" UNC SHD. Dia 3/8" x 0.356" w bolt
22.	500029	5/16" UNC nyloc half nut
23.	500078	M6 x 16 Screw
24.	500040	M6 Nyloc full nut
25.	500006	5/16" UNC SHD. Dia 3/8" x1.1" w bolt
26.	100123	Spacer/Washer
27.	500029	5/16" UNC nyloc half nut
28.	500004	5/16" UNC SHD. Dia 3/8" x 0.356" w bolt
29.	500005	5/16" UNC SHD. Dia 3/8" x0.729" w bolt
30.	500086	M8 x 16 hex head screw
31.	200185	Start/Stop switch
32.	100022	Start/Stop switch mounting bracket
33.	400061	Start/Stop switch bracket strap
34.	500087	M8 x 20 Hex head screw
35.	500043	M8 Nyloc full nut
36.	210007	240v Electrical enclosure assembly
37.	100043	PF Leg mounting bracket 127mm
38.	500053	3/8" UNC x 1/2" Hex head screw
39.	100008 100009 100010	PF Lower axle – 457mm PF Lower axle – 610mm PF Lower axle – 762mm
40.	100127	Nylatron washer
41.	100074	1 1/4" Square leg cap
42.	500052	3/8" UNC x 1 7/8" hex head screw
43.	500104	3/8" spring washer
44.	500101	Washer 1" x 3/8" x 5/64" Flat
45.	210016 210017 210018	Fuse box assembly – single (check no. of cables from bottom of box) Fuse box assembly – double (check no. of cables from bottom of box) Fuse box assembly – treble (check no. of cables from bottom of box)
46.	100019	Blue drive belt



## 10.4 PF19 Parts List

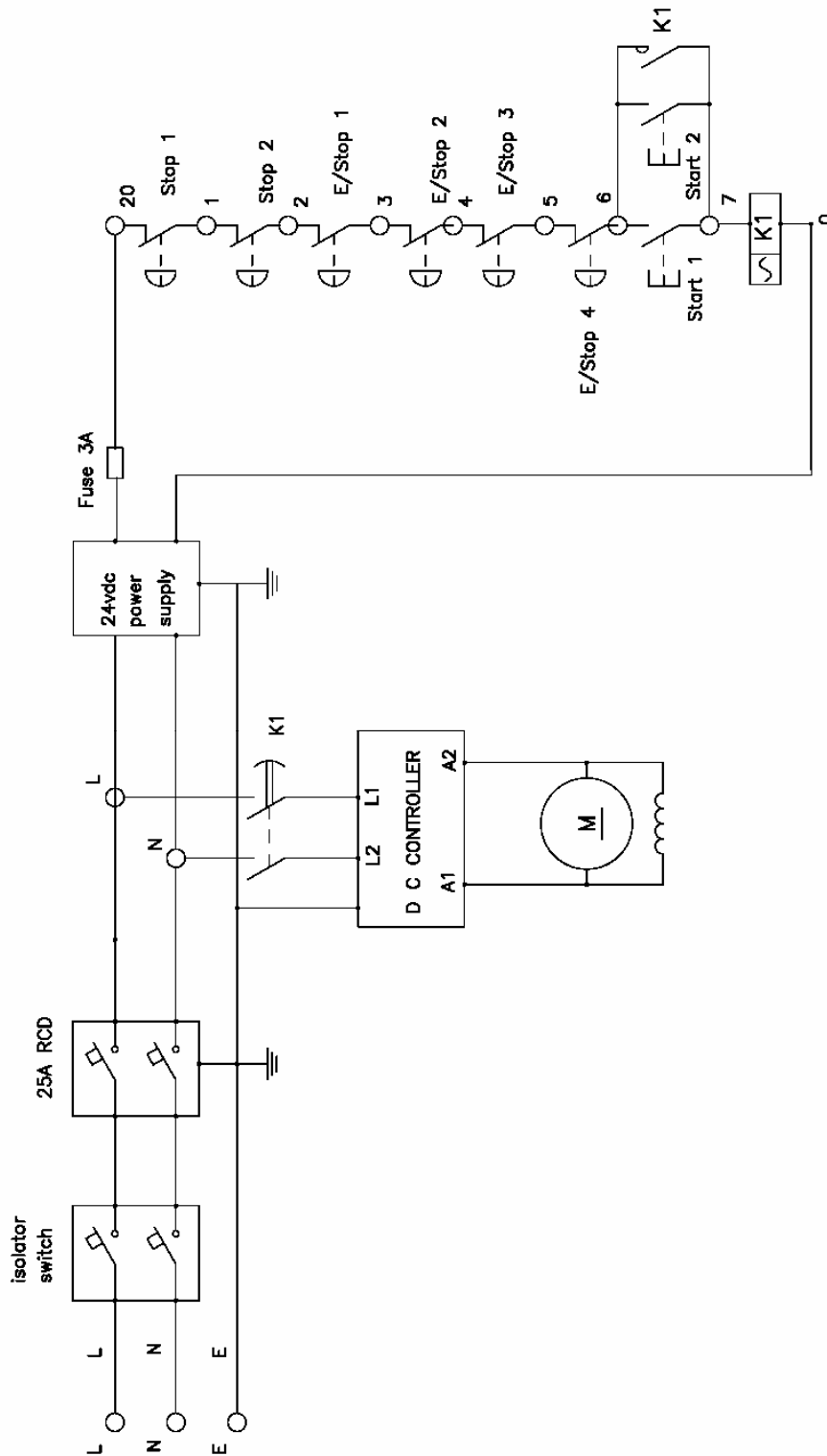
<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1.	100040	PF Roller mounting bracket 127mm pitch
2.	100087 100091 100098	PF 1.9 Roller – 457mm PF 1.9 Roller – 610mm PF 1.9 Roller – 762mm
3.	100110	PF1.9 Side plate
4.	440019 440020 440021	PF 1.9 Leg Frame – 457mm PF 1.9 Leg Frame – 610mm PF 1.9 Leg Frame – 762mm
5.	110103	8" x 2" Non braked castor & stem
6.	110104	8" x 2" Braked castor & stem
7.	500141	M10 X 20 Hex head screw
8.	200066	DC Controller
9.	500016	M6 X 45 Hex head bolt
10.	500040	M6 Nyloc full nut
11.	100029	Idler mounting bracket
12.	100083	Double grooved idler pulley
13.	500002	3/8" UNC x 2" bolt
14.	500026	3/8" UNC nyloc half nut
15.	100019	Clear idler belt
16.	110017	Motor guard assembly
17.	400045	Motor mounting bracket
18.	500048	1/4" UNC x 1/2" Screw
19.	500102	1/4" Shake proof washer
20.	100078	Motor mounting brace bracket
21.	500004	5/16" UNC SHD. Dia 3/8" x 0.356" w bolt
22.	500029	5/16" UNC nyloc half nut
23.	500078	M6 x 16 Screw
24.	500040	M6 Nyloc full nut
25.	500006	5/16" UNC SHD. Dia 3/8" x1.1" w bolt
26.	100123	Spacer/Washer
27.	500029	5/16" UNC nyloc half nut
28.	500004	5/16" UNC SHD. Dia 3/8" x 0.356" w bolt
29.	500005	5/16" UNC SHD. Dia 3/8" x0.729" w bolt
30.	500086	M8 x 16 hex head screw
31.	200185	Start/Stop switch
32.	100022	Start/Stop switch mounting bracket
33.	400061	Start/Stop switch bracket strap
34.	500087	M8 x 20 Hex head screw
35.	500048	M8 Nyloc full nut
36.	210007	240v Electrical enclosure assembly
37.	100043	PF Leg mounting bracket 127mm
38.	500053	3/8" UNC x 1/2" Hex head screw
39.	100008 100009 100010	PF Lower axle – 457mm PF Lower axle – 610mm PF Lower axle – 762mm
40.	100127	Nylatron washer
41.	100073	1 1/2" Square leg cap
42.	500052	3/8" UNC x 1 7/8" hex head screw
43.	500104	3/8" spring washer
44.	500101	Washer 1" x 3/8" x 5/64" Flat
45.	210016 210017 210018	Fuse box assembly – single (check no. of cables from bottom of box) Fuse box assembly – double (check no. of cables from bottom of box) Fuse box assembly – treble (check no. of cables from bottom of box)
46.	100019	Blue drive belt

## 10.5 Recommended Spare Parts

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>RECOMMENDED QTY</u>
500006	5/16" UNC SHD. Dia 3/8" x 1.1" w bolt	10
500004	5/16" UNC SHD. Dia 3/8" x 0.356" w bolt	10
500005	5/16" UNC SHD. Dia 3/8" x 0.729" w bolt	10
100040	Roller Mounting Bracket	5
100085	PF1.5 38mm Roller – 457mm	5
100090	PF1.5 38mm Roller – 610mm	5
100096	PF1.5 38mm Roller – 762mm	5
100087	PF1.9 48mm Roller – 457mm	5
100091	PF1.9 48mm Roller – 610mm	5
100098	PF1.9 48mm Roller – 762mm	5
100008	PF Lower axle – 457mm	5
100009	PF Lower axle – 610mm	5
100010	PF Lower axle – 762mm	5
500029	Nylon locknut 5/16-18	30
100106	Sidebar 1½" for PF 1.5	10
100110	Sidebar 2" for PF 1.9	10
100020	Idler belt	20
100019	Drive belt	10
200110	3 Amp fuse	2
200118	Fuse holder	2
100123	Spacer	10
100127	Nylatron washer	10
200127	Motor	1
200066	Control box	1
Consult Factory	Fuse resistor kit	1

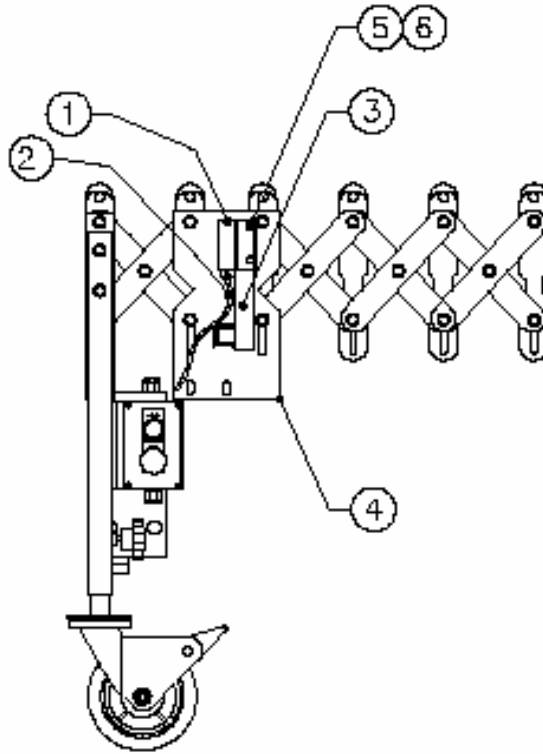
# 11 ELECTRICAL DRAWINGS

## 11.1 Standard PowerFlex



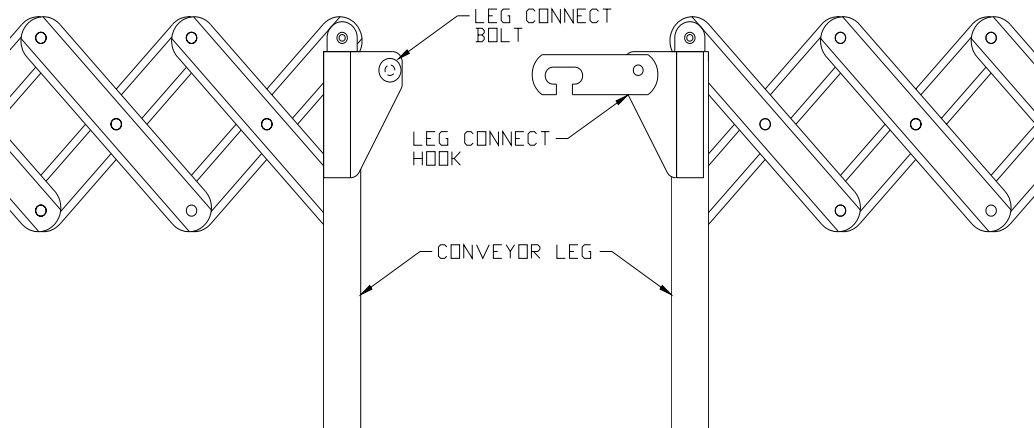
## 11.2 Package Stop or Build Back Sensor Assembly

Under roller optics serve as an electronic package stop, designed to prevent products falling off the end of the conveyor. When a package gets to the end of the conveyor and covers the sensors, the conveyor stops automatically. The conveyor will remain stationary until the package is removed.



ITEM	PART NO.	DESCRIPTION	QUANTITY
1	200169	Photo sensor	457mm wide – 2 off
	200169	Photo sensor	610mm wide – 2 off
	200169	Photo sensor	762mm wide – 3 off
2	200054	Photo sensor cable	'As above'
3	400077	Photo sensor mounting bar – 457mm wide	1
	400078	Photo sensor mounting bar – 610mm wide	1
	400079	Photo sensor mounting bar – 762mm wide	1
4	400075	Under roller optics side plate – LH	1
	400076	Under roller optics side plate – RH	1
5	500016	M6 x 45 screw	2
6	500040	M6 nyloc nut	

### 11.3 Connection Assembly



#### OPERATING INSTRUCTIONS

##### SAFE WORK PROCEDURE



1. Push the two conveyors leaving a small gap between them
2. Rotate the connection hooks on each side of conveyor and engage on to the shoulder bolts on the mating conveyor

##### POTENTIAL HAZARDS



1. Possible to get caught in between conveyors
2. Possible to get caught between connection hook and shoulder bolt