

R0015256 Pneumatic Connections

Instructions to instal Pneumatic connections onto module

 Difficulty **Medium**

 Duration **8 hour(s)**

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Comments

Introduction

Tools Required

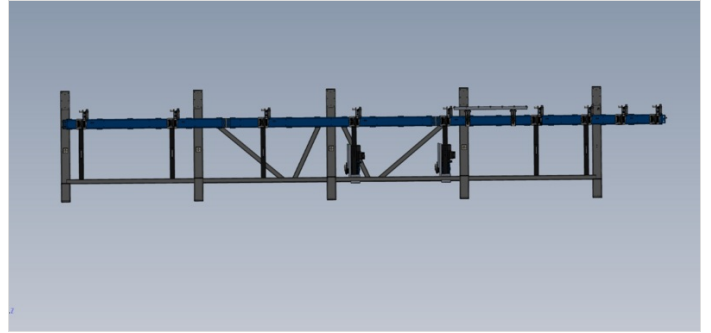
Pipe cutters
Number identification
Flush cutters

Parts Required

P0000160 Flow regulator 6mm inline x 2
P0000551 6mm inline Quick Exhaust Fitting x5
P0001008 Regulator: ARG20 0 - 8.5 Bar c/w Gauge x 1
P0001023 Fitting: SMC 6mm mini Y x 1
P0001030 Fitting: SMC 6mm Equal Tee x 27
R0015071 Pneumatics rail
A0000343 energy chain x 1
A0000344 energy chain bracket set x 1
D0015577 fixed energy chain bracket x 1
P0001166 Tube to tube elbow 12mm x 1

Step 1 - Mount Pneumatic rail

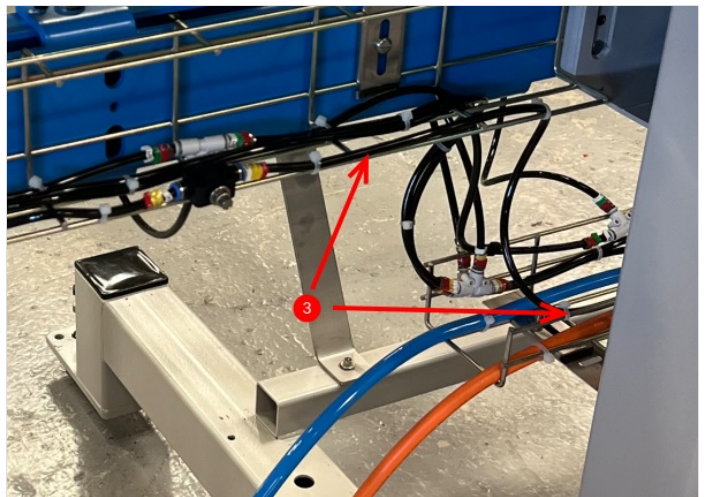
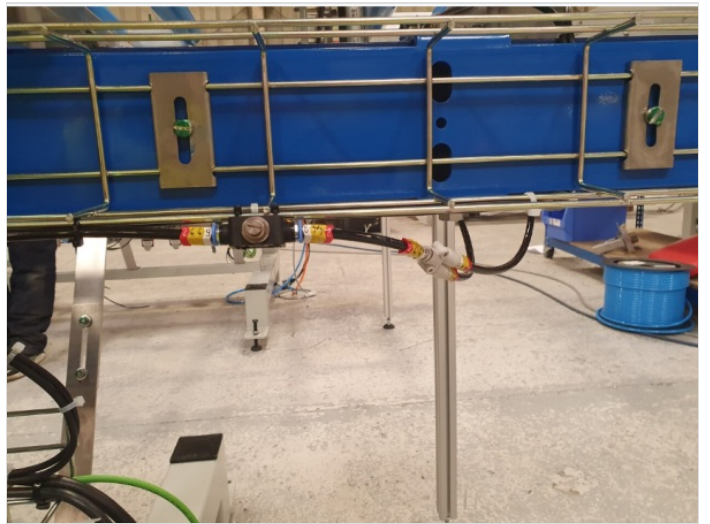
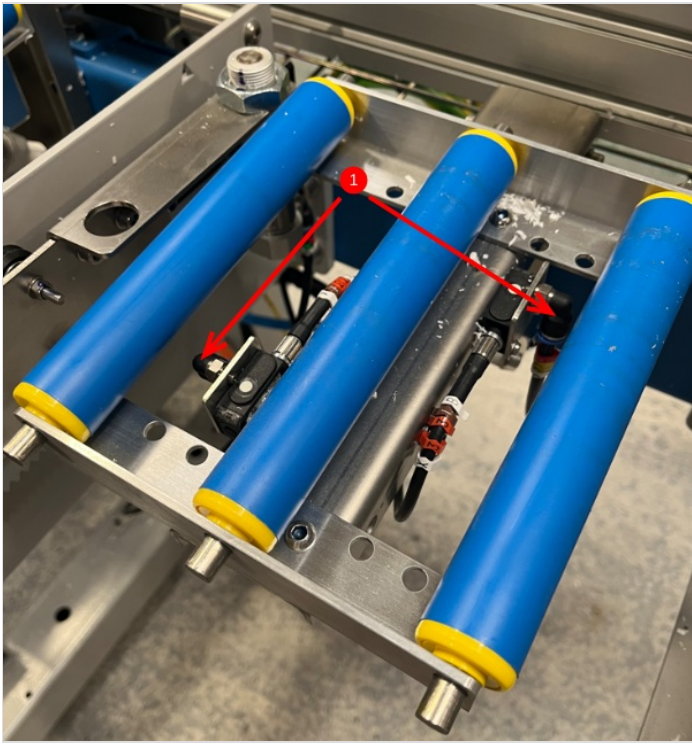
Mount pre assembled pneumatic rail R0015071 into the position shown . Fix with M8x 20 socket caps, Use 1 off M8 A Form on end with slot on rail

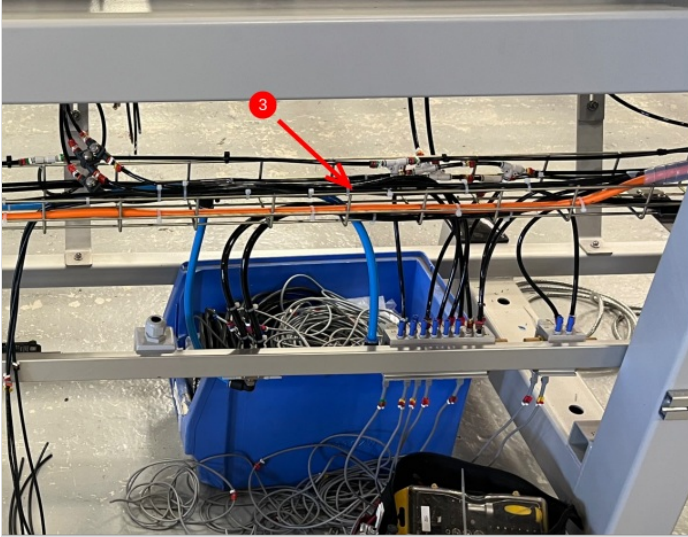


Step 2 - Install Y244 material load sensor blowers

6mm Black air pipe
Identify pipe as 2449

- attach long enough pipe from Y connector to reach wire basket directly behind. Ensure slack is left to allow for roller movement up
- Attach to indicated sections (3) of wire basket
- Connect to (4 -active) port of valve slice





Step 3 - Install Y125 Pop up C pipework

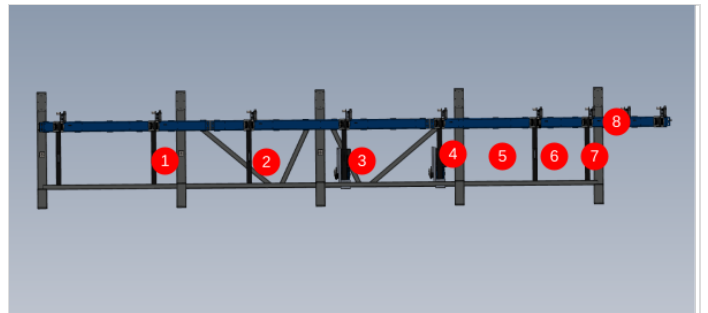
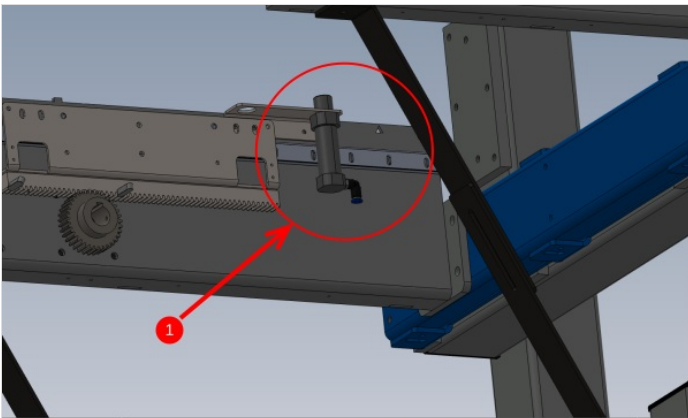
6mm black air pipe

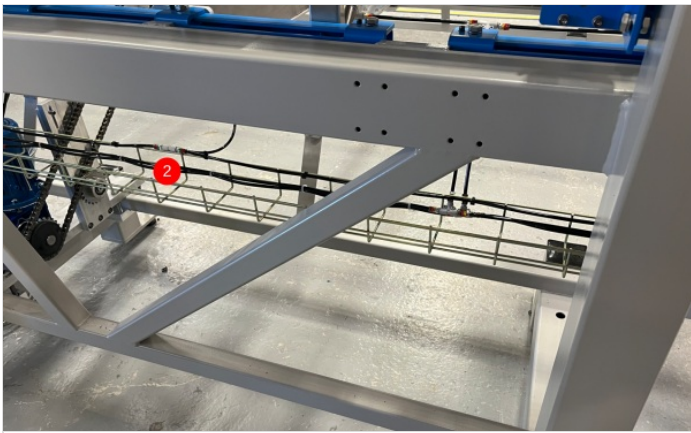
Pipe identified as 1259

9 off pop up C cylinders to be connected (1)

Ensure enough slack is left on pipe between basket and cylinder to allow full range of movement

- (1) 6mm tee feeds cylinder above and to the left
- (2) 6mm tee feeds cylinder above and ring main left and right
- (3) 6mm tee feeds cylinder above and ring main left and right
- (4) 6mm tee feeds cylinder above and ring main left and right
- (5) 6mm tee feeds valve below and ring main left and right
- (6) 6mm tee feeds cylinder above and ring main left and right
- (7) 6mm tee feeds cylinder above and ring main left and right
- (8) 6mm tee feeds cylinder above and cylinder to the right





Step 4 - Install Y124 Roller beds

6mm black air pipe

Pipes identified as 1249 and 1241

Cylinder nose 1249

Cylinder base 1241

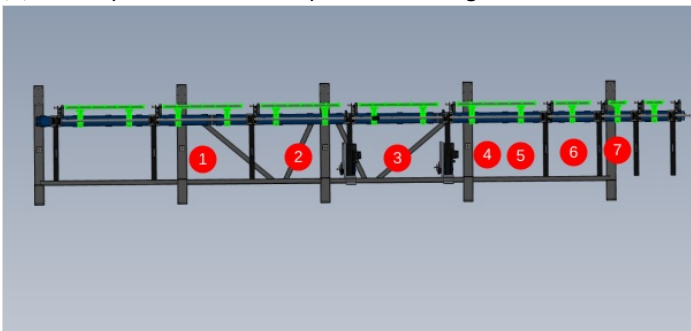
(1) (2) (3) (4) connect all as shown using 6mm tee fittings position (1) feeds roller to the left as well as one above

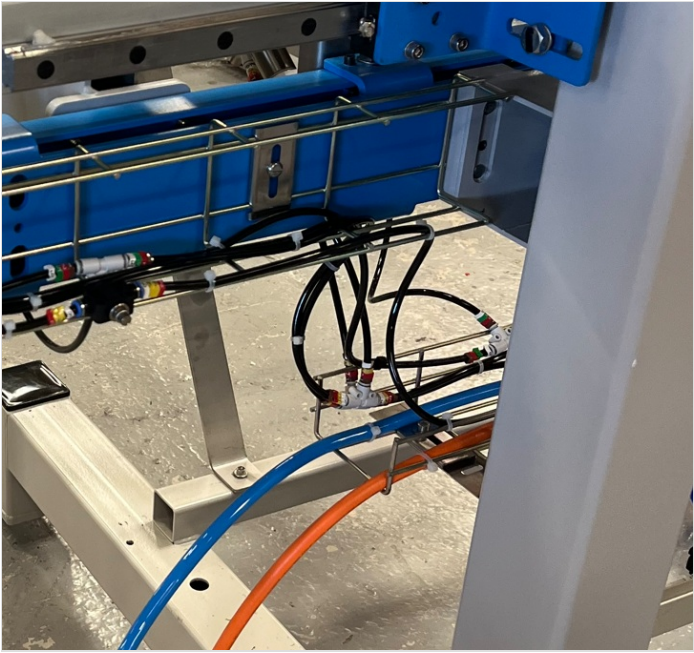
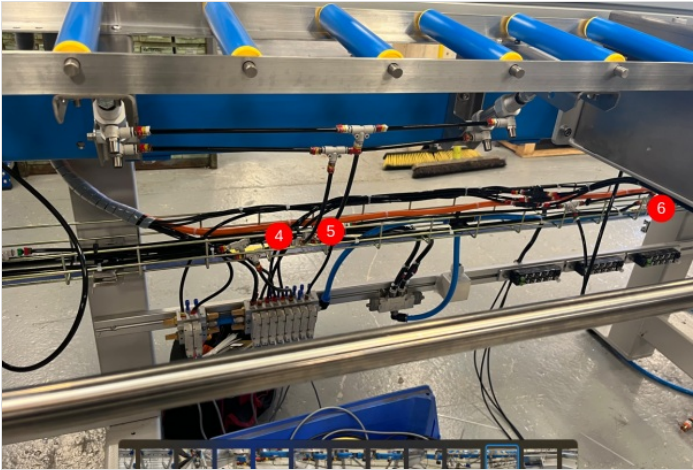
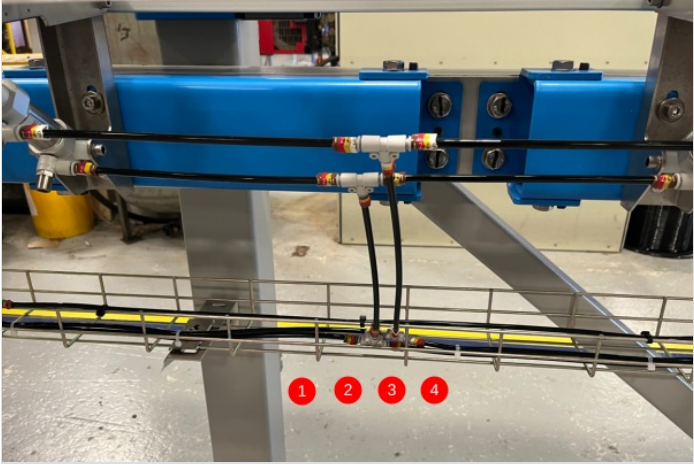
(4) Feeds ring main to valve

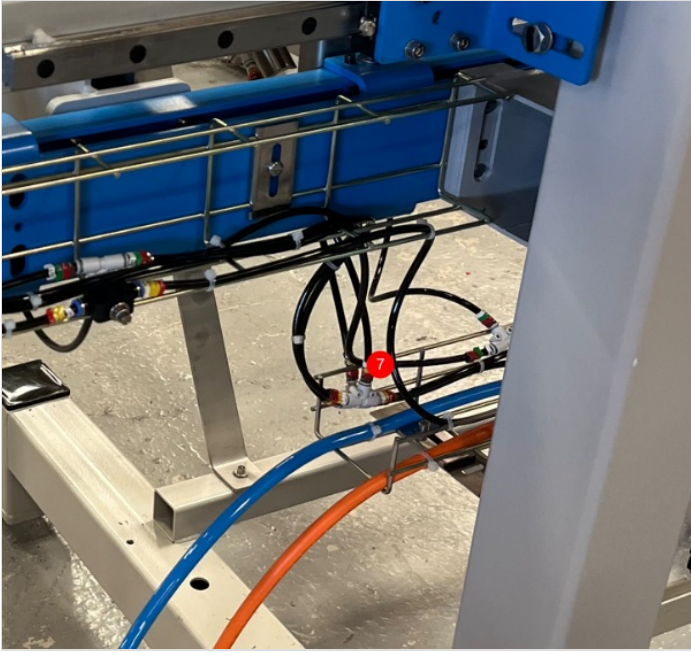
(5) Feeds cylinder above and ring main to the right

(6) Feeds cylinder above and ring main to the right

(7) Feeds cylinder above and cylinder to the right







Step 5 - Y126 / Y127 beam position

pipe identifications

1269 and 1279

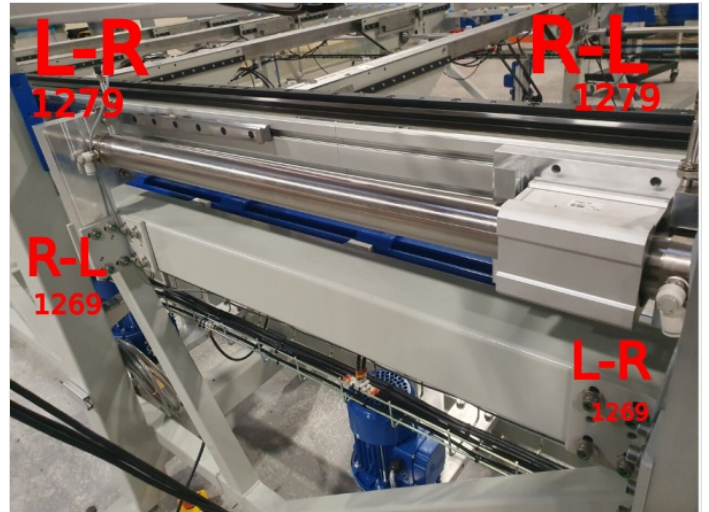
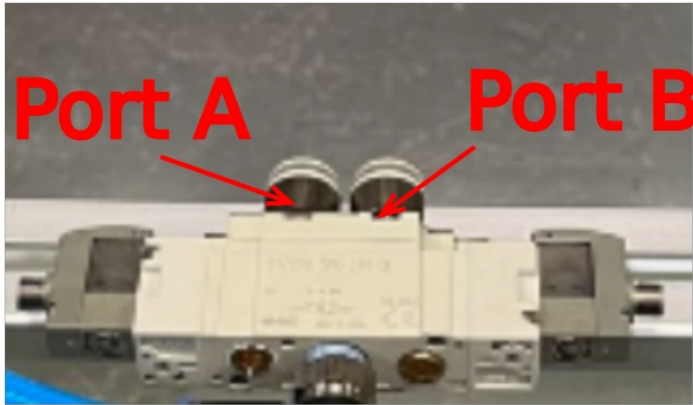
Fitting on cylinder closest to extractor should be 1279

Other fitting will be 1269

1269 pipe should connect to B on valve 1279 should connect to A on valve

Connect with 10mm black airpipe to standalone valve

Electrical connection will match port connections of two pipes



Step 6 - Y232 Y233 and Y234

- Identification as 2329 2339 2349
- Home port (2) should be blanked at valve bank
- Run from active port on valve bank (port 4) to transfer beam number 4 .
- Fit A000343 energy chain @44 links
- A000344 energy chain brackets as shown
- Mount to D0015577 fixed bracket and attach to support arm as shown
- Must have a P0000551 qev fitted to each line (see photos)







Step 7 - Important

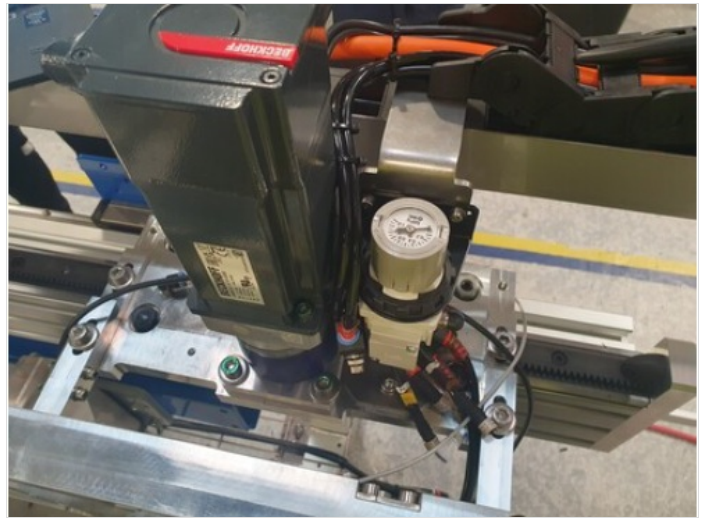
It is vital that when installing pipes into the main X axis energy chain, that cable retaining points are used
All cables and pipes should be secured with tie wraps to the 'fingers' on the energy chain brackets at BOTH ends



Step 8 - Y121 Gripper height

Gripper height is lifted for home position

- 1211 Home port of valve bank (2) to nose of cylinder (with QEV fitted)
- 1212 Base of cylinder to out port on regulator (with QEV fitted)
- 1219 In port of regulator to active port on valve bank (4)
- 1229 Must have flow regulation P0000160 connect to active port (4) on valve bank. Connects to 2 x P0000200 rack blowers via a T piece.



Step 9 - Connect ring main

- Connect 12mm blue airpipe from valve banks to end of frame for machine connections using a 12mm tube - tube elbow. Ensure 3 meters of pipe is trailing from basket, ready for connection to ring main at a later point