

R0015324 Install pipe and cable looms

Pneumatic connections and cable information

 Difficulty **Medium**

 Duration **2 hour(s)**

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Comments

Introduction

Tools Required

Standard hex key set

6mm black Air pipe

Pipe identification numbers

Pneumatic Pipe cutters

W0001002 cable (from consumable stock)

Parts Required

M0001127 Cable Tie Base (m6) (from consumable stock)

P0000046 Fitting: 'Y' Adaptor 6mm x 2

Step 1 - Unless otherwise stated

Use loctite 243 on all fasteners

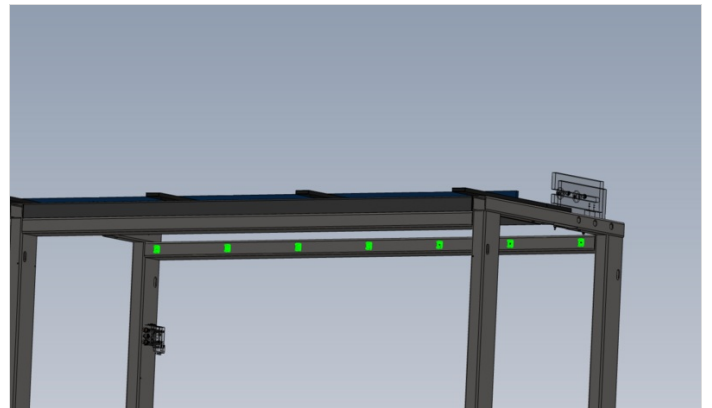
Use Loctite 572 on all threaded pneumatic connections

Pen mark all bolts to show finalised



Step 2 - Attach tie bases to frame

Attach 7 off M0001127 Cable Tie Base (m6) as shown using M5 x 10
button sockets



Step 3 - Connect Safety gate cylinder feeds

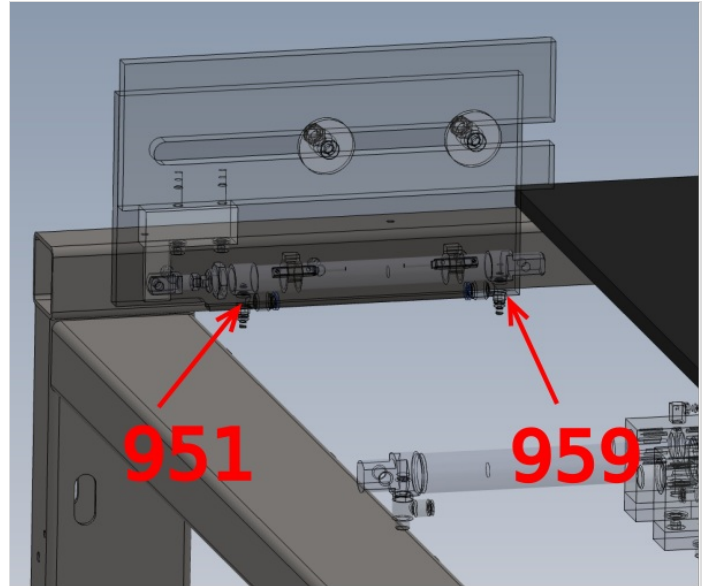
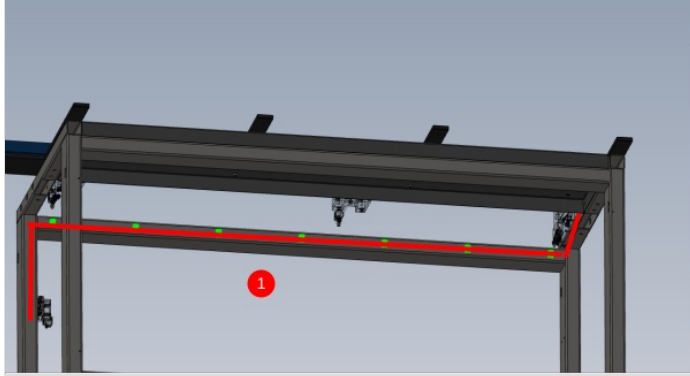
Identification numbers

951
959

1 Cut 2 6mm black air pipes long enough to run the indicated route

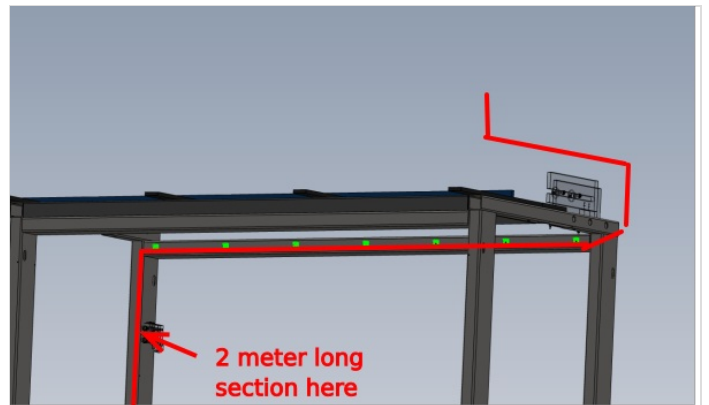
2 Identify each pipe, one 951 and one 959

3 Connect pipes to gate as indicated and leave pipes to loom later



Step 4 - Cut Siren cable

Cut Length of W00010002 cable to follow the route shown , and mark both ends clearly Y94



Step 5 - Create loom

Start to create loom from safety gate

Attach to first tiebase and separate pneumatic cables to top lug and cables to lower

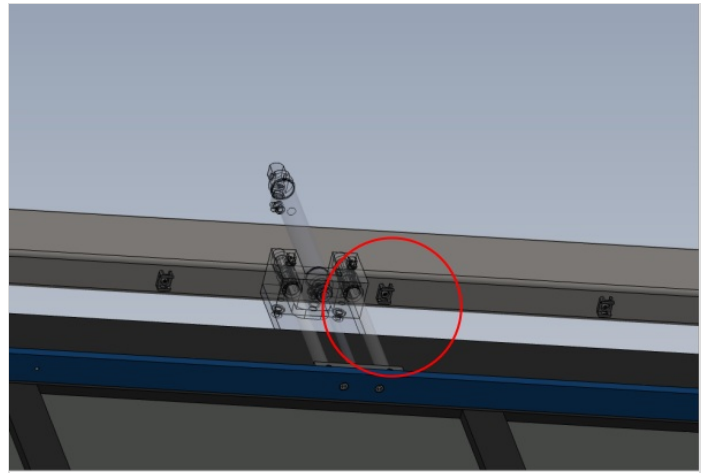
Pipes 951 and 959, Y94 cable, and reed switches X189 and X190 should be loomed in as shown

Y94 should be left with enough length to connect to cut guard beacon when fitted



Step 6 - continue loom

Continue fixing looms until 1st cylinder push assembly is reached

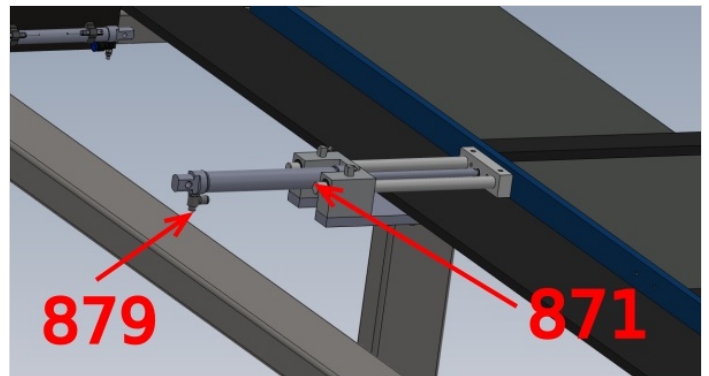
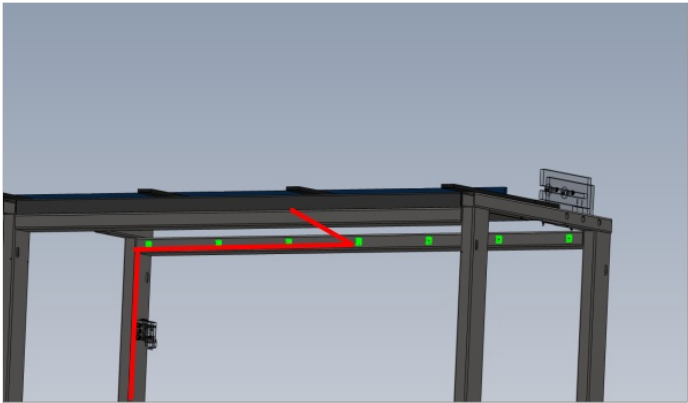


Step 7 - connect push eject cylinder feeds

Cut 2 lengths of 6mm black airline at the right length to follow the indicated route

Pipe identifications
871 and 879

Connect pipes to indicated ports on cylinder

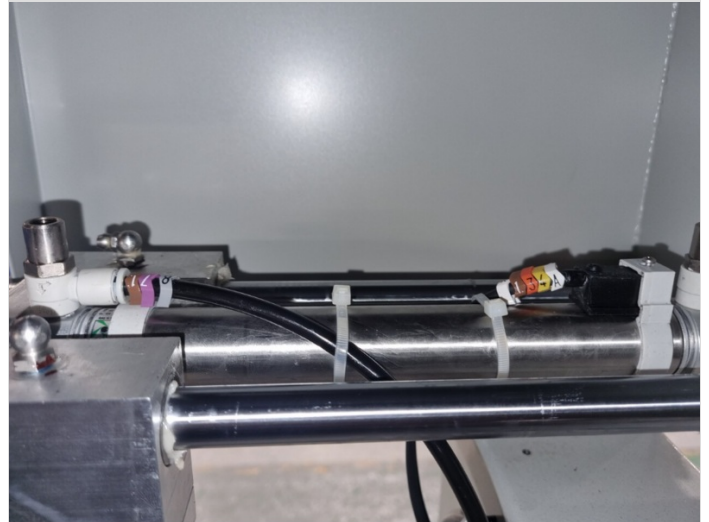
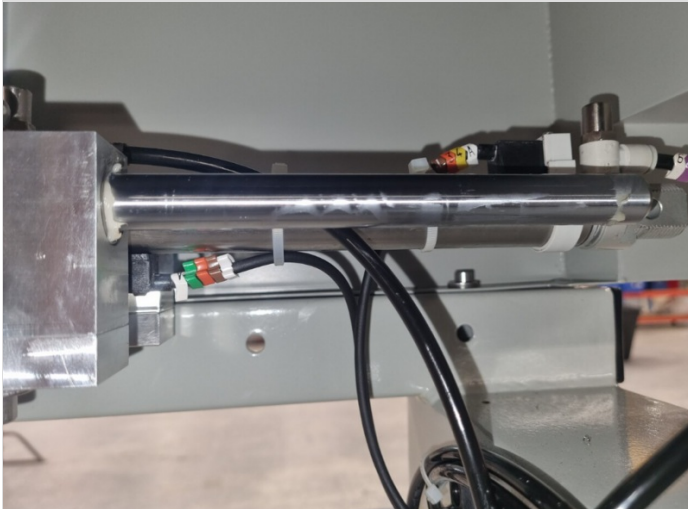
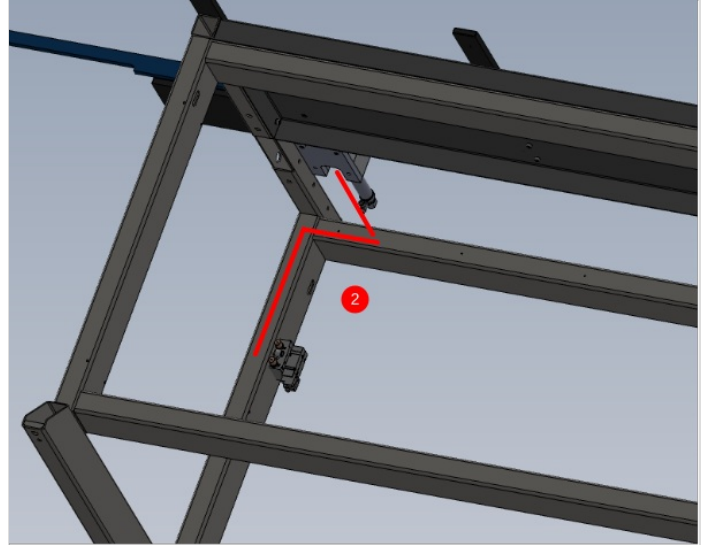


Step 8 - Continue looms

1 Continue looms bring in the two pipes and continue to the next push cylinder assembly

2 Cut 2 more 6mm black air pipes to run the indicated route and identify and connect as the previous step

3 Add to loom and continue to end of frame, combining reed switches attached to push eject assembly



Step 9 - Coil cable loom

Coil cables from loom and hold with tie wrap



Step 10 - Valve bank connections

1 Use P0000046 6mm y connection to connect pipes 879 together as shown

Use P0000046 6mm y connection to connect pipes 871 together as shown

2 Use 6mm black air pipe to connect each Y connector to valve bank

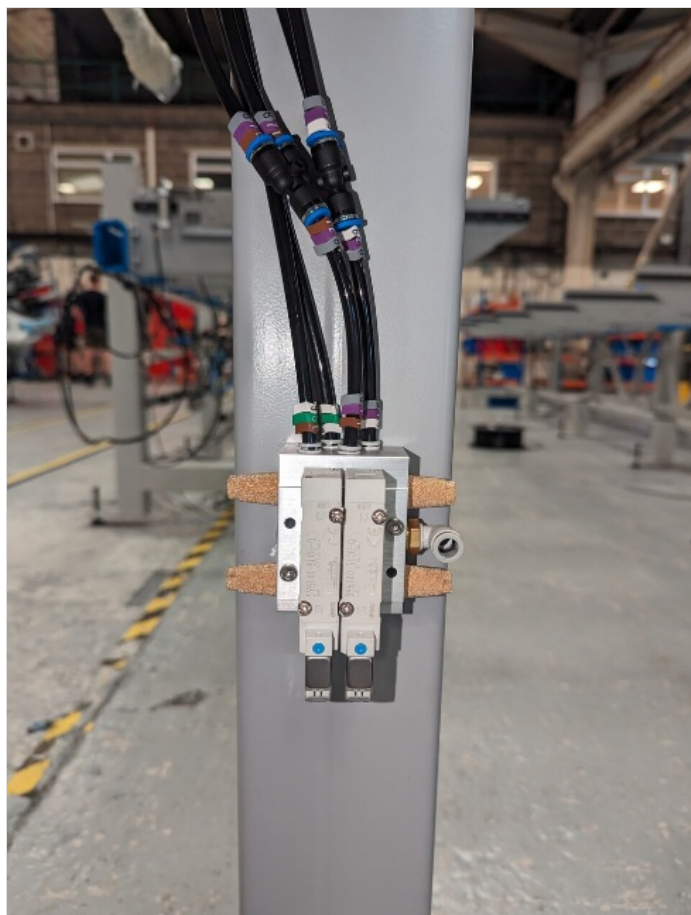
Connect 871/9 to rightside valve.

Connect 871 to port A2 above valve

Connect 879 to port A4 above valve

3 Connect 951 to second valve. port A2

connect 959 to second valve, port A4



Step 11 - Loom quality

Ensure all looms are correctly tethered to retention points , and are not twisted or buckled .

Ensure all breaks of pipe work are numbered for identification



Step 12 - Pneumatic operations check

1 Connect mains air to 8mm and purge system to mains pressure

2 Check for audible air leaks , and correct if found

3 Check home positions. With the air connected the following home positions should be checked

A Y95 Safety gate should be extended out

B Y87 Cylinder push should be retracted

4 Manually fire valve on Y95 by pressing over ride button and holding in (C) check that cylinder moves and no air leaks are present when fired

Repeat for Y87 output

Remove air supply once testing is complete

