

Problem:

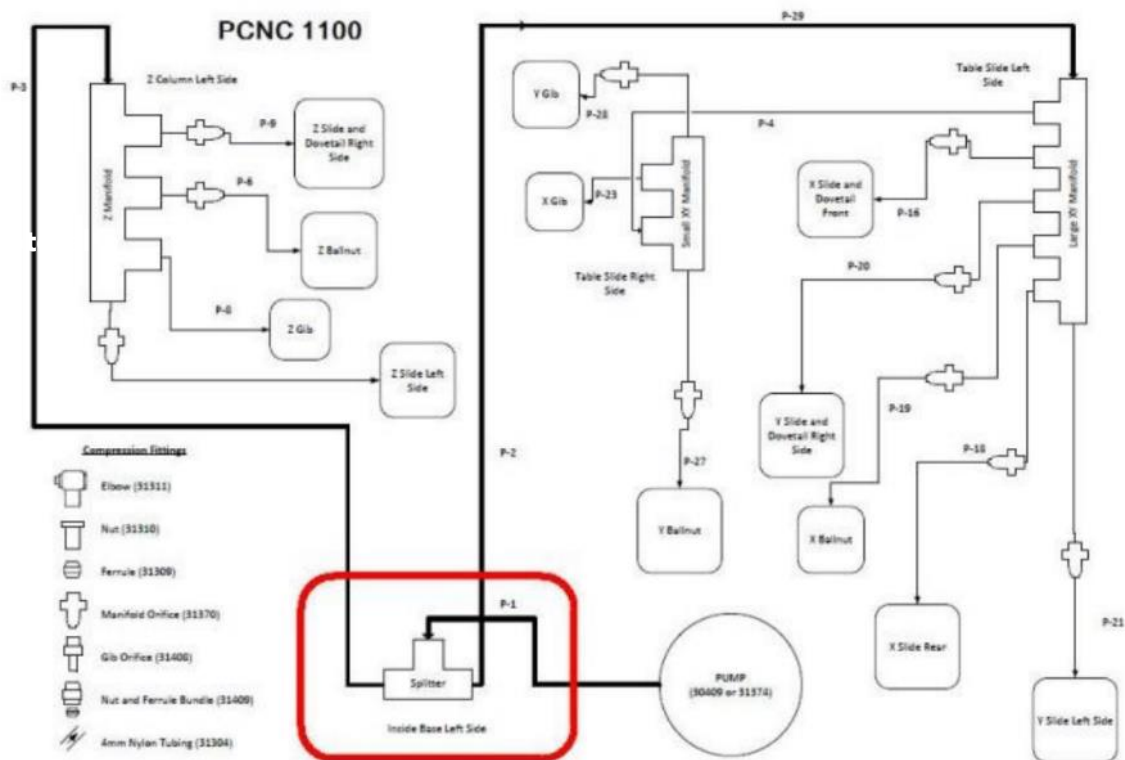
The main problem is that most of the oil goes thru the XY carriage and the Z oil line need several pump strokes to get filled. By the end of the day the gravity has done its work making all the oil downward.

Next time you start the machine you only make 2 o 3 strokes and the XY carriages start to leak oil all over the place, but your Z line is not even fully filled because it need several pump strokes.

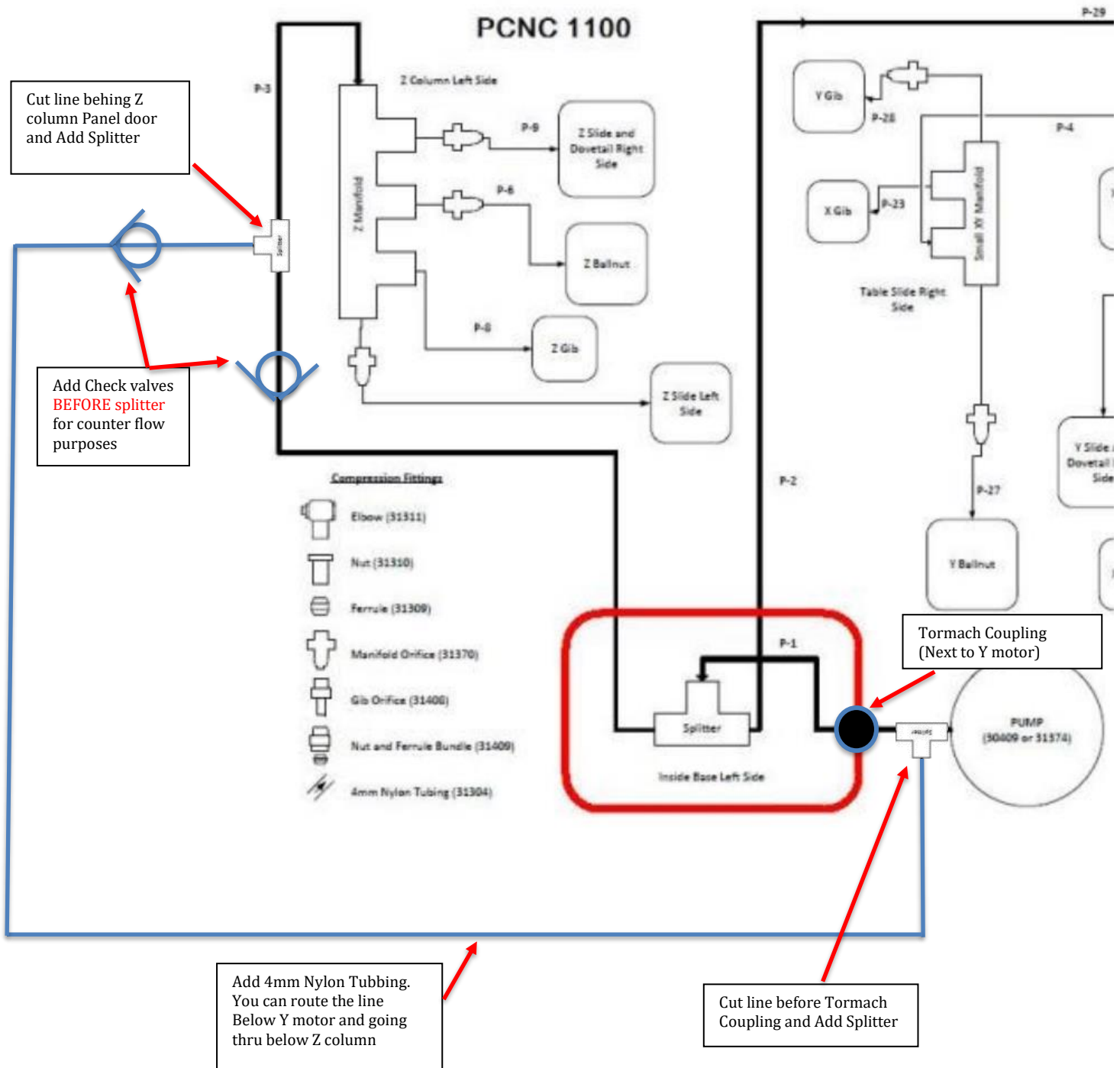
Solution:

To add a second line to bypass the XY oil lines and to add check valves for gravity back flow. No need to disassembly the XY carriage, you will only need to work from behind the machine. After this Modification, you will have a Z column and Z ball screw Heavily Oiled

Full Diagram:



Modified Diagram:



Part Numbers Used:

Use these part numbers or look only for the parts descriptions to buy equivalents at Tormach or McMaster.

Splitter

Part Number: PV-3-4 M8X1

Link:

<https://es.aliexpress.com/item/4000106402578.html?spm=a2g0o.9042311.0.0.348863c0Xv4oBy>



Flow meter with Check Valve

Part Number: FHC-5 (SS)

Link:

<https://es.aliexpress.com/item/4000124353282.html?spm=a2g0o.9042311.0.0.348863c0Xv4oBy>



Nylon Tubing

Part Number: NYLON PA11 10M 4mmx1

Link:

<https://es.aliexpress.com/item/32865067632.html?spm=a2g0o.9042311.0.0.348863c0Xv4oBy>



Ferrules

Part Number: GB-4

Link:

<https://es.aliexpress.com/item/32859636420.html?spm=a2g0o.9042311.0.0.348863c0Xv4oBy>

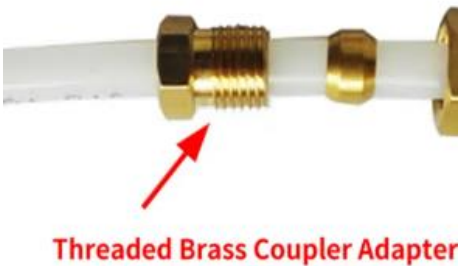


Nut

Part Number: GN-4

Link:

<https://es.aliexpress.com/item/32860662116.html?spm=a2g0o.9042311.0.0.348863c0Xv4oBy>



Automatic Oiler Pump (OPTIONAL)

Part Number: 2L Pressure gauge

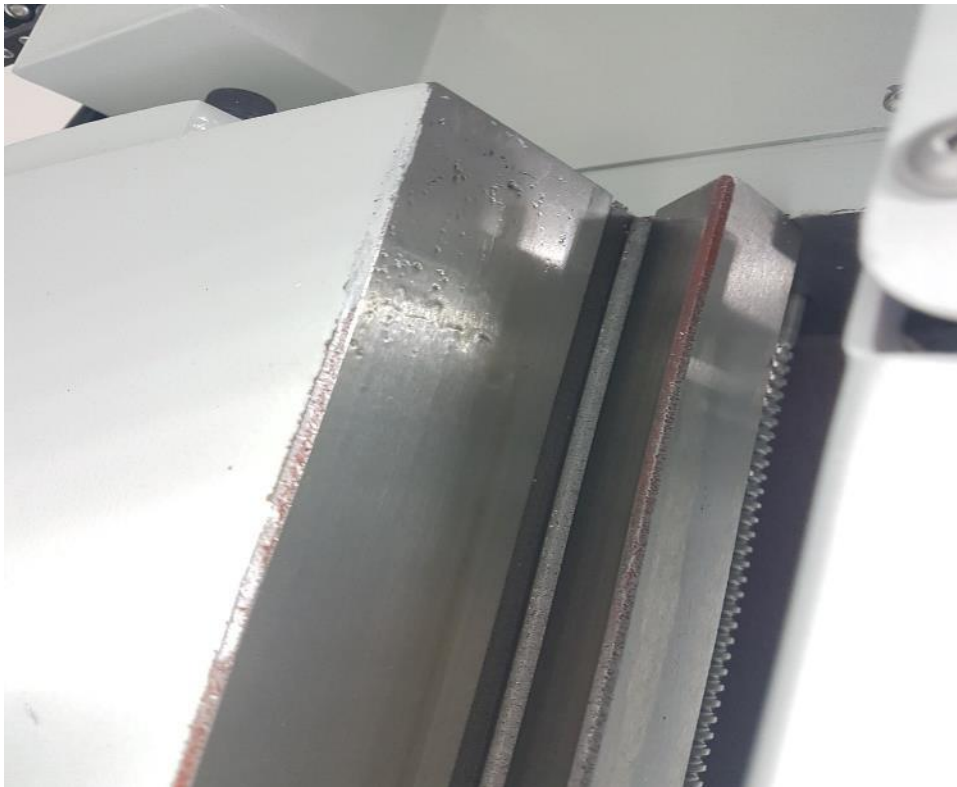
Link:

<https://es.aliexpress.com/item/1005001343335074.html?spm=a2g0o.9042311.0.0.348863c0Xv4oBy>

y



Reference Photos:





[Diseño y Manufactura Integral](#)



[DMI Asesores](#)



[DMI Asesores](#)



Cel. (656) 180 0032



Tel. (656) 688 8477



karlo.terrazas@dmi-asesores.com